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战车, 战, 车, NA, NA, 2, LR, SG, NA, NA, PicPho, Picto, NA, NA, zhan4che1, zhan4, che1, NA, NA, ʈʂan4ʈʂʰɤ1, ʈʂan4, ʈʂʰɤ1, NA, NA, ʈʂ, ɤ, zhan1, NA, NA, NA, 5, 3, 2, NA, NA, 4, 1, NA, NA, 1.6531, 721.5358, 1119.042, NA, NA, 223, 146111, 226606
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主题, 主, 题, NA, NA, 2, SG, LRB, NA, NA, Picto, PicPho, NA, NA, zhu3ti2, zhu3, ti2, NA, NA, ʈʂu3tʰi2, ʈʂu3, tʰi2, NA, NA, ʈʂ, i, shi4, NA, NA, NA, 4, 2, 2, NA, NA, 3, 2, NA, NA, 301.3269, 876.958, 729.363, NA, NA, 40649, 177584, 147696
拧, 拧, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, ning3, ning3, NA, NA, NA, niŋ3, niŋ3, NA, NA, NA, n, ŋ, ning2, NA, NA, NA, 3, 3, NA, NA, NA, 3, NA, NA, NA, 1.7865, 5.0519, NA, NA, NA, 241, 1023
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汇兑, 汇, 兑, NA, NA, 2, LR, UD, NA, NA, Other, Other, NA, NA, hui4dui4, hui4, dui4, NA, NA, xwei4twei4, xwei4, twei4, NA, NA, x, i, NA, NA, NA, NA, 8, 4, 4, NA, NA, 4, 4, NA, NA, 0.0519, 56.5284, 19.279, NA, NA, 7, 11447, 3904
任期, 任, 期, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, ren4qi1, ren4, qi1, NA, NA, ʐən4tɕʰi1, ʐən4, tɕʰi1, NA, NA, ʐ, i, ren2, qi2, NA, NA, 5, 3, 2, NA, NA, 4, 1, NA, NA, 1.2824, 580.0741, 682.2765, NA, NA, 173, 117465, 138161
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狩猎, 狩, 猎, NA, NA, 2, LR, LR, NA, NA, PicPho, Other, NA, NA, shou4lie4, shou4, lie4, NA, NA, ʂou4ljɛ4, ʂou4, ljɛ4, NA, NA, ʂ, e, shou3, NA, NA, NA, 6, 3, 3, NA, NA, 4, 4, NA, NA, 3.4841, 2.4938, 28.6272, NA, NA, 470, 505, 5797
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混乱, 混, 乱, NA, NA, 2, LR, LR, NA, NA, PicPho, PicSyn, NA, NA, hun4luan4, hun4, luan4, NA, NA, xwən4lwan4, xwən4, lwan4, NA, NA, x, n, kun1, NA, NA, NA, 8, 4, 4, NA, NA, 4, 4, NA, NA, 20.2743, 146.3556, 283.5556, NA, NA, 2735, 29637, 57420
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眼福, 眼, 福, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, yan3fu2, yan3, fu2, NA, NA, jan3fu2, jan3, fu2, NA, NA, j, u, gen4, fu2, NA, NA, 5, 3, 2, NA, NA, 3, 2, NA, NA, 0.8302, 722.3506, 982.5136, NA, NA, 112, 146276, 198959
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指标	指	标	NA	NA	2	LR	LR	NA	NA	PicPho	Other	NA	NA	zhi3biao1	zhi3	biao1	NA	NA	tʂɿ3pjau1	tʂɿ3	pjau1	NA	NA	tʂ	u	zhi3	NA	NA	NA	6	2	4	NA	NA	3	1	NA	NA	5.3744	342.2716	259.6049	NA	NA	725	69310	52570	NA	NA	1.5522	470.5128	204.5299	NA	NA	52	22020	9572	NA	NA	6.6371	303.7251	276.1593	NA	NA	673	47290	42998	NA	NA	5.3744	4747.917	394.47	NA	NA	79	73	NA	NA	382.4833	367.5019	[illegible]
掩体	掩	体	NA	NA	2	LR	LR	NA	NA	PicPho	PicSyn	NA	NA	yan3ti3	yan3	ti3	NA	NA	jan3tʰi3	jan3	tʰi3	NA	NA	j	i	yan1	NA	NA	NA	5	3	2	NA	NA	3	3	NA	NA	0.7784	31.5309	1049.1704	NA	NA	105	6385	212457	NA	NA	2.8358	48.8462	568.1624	NA	NA	95	2286	26590	NA	NA	0.0986	26.3263	1193.7508	NA	NA	10	4099	185867	NA	NA	0.7784	1387.5019	1503.5063	NA	NA	13	192	NA	NA	39.3773	1477.109	[illegible]
割断	割	断	NA	NA	2	LR	LR	NA	NA	PicPho	PicSyn	NA	NA	ge1duan4	ge1	duan4	NA	NA	kɤ1twan4	kɤ1	twan4	NA	NA	k	n	hai4	NA	NA	NA	6	2	4	NA	NA	1	4	NA	NA	1.4826	22.7951	276.8049	NA	NA	200	4616	56053	NA	NA	3.9104	32.7778	194.188	NA	NA	131	1534	9088	NA	NA	0.6805	19.7945	301.6378	NA	NA	69	3082	46965	NA	NA	1.4826	1221.4974	687.0867	NA	NA	18	71	NA	NA	16.212	261.3936	[illegible]
盛世	盛	世	NA	NA	2	UD	SG	NA	NA	PicPho	PicLog	NA	NA	sheng4shi4	sheng4	shi4	NA	NA	ʂəŋ4ʂɿ4	ʂəŋ4	ʂɿ4	NA	NA	ʂ	ɿ	cheng2	NA	NA	NA	5	3	2	NA	NA	4	4	NA	NA	4.8851	94.8049	830.6074	NA	NA	659	19198	168198	NA	NA	0.4179	57.3291	460.812	NA	NA	14	2683	21566	NA	NA	6.3609	106.0694	941.7598	NA	NA	645	16515	146632	NA	NA	5.3818	611.8977	32940.1705	NA	NA	46	99	NA	NA	103.2246	[illegible]
通宵	通	宵	NA	NA	2	LRB	UD	NA	NA	PicPho	PicPho	NA	NA	tong1xiao1	tong1	xiao1	NA	NA	tʰuŋ1ɕjau1	tʰuŋ1	ɕjau1	NA	NA	tʰ	u	yong3	xiao1	NA	NA	7	3	4	NA	NA	1	1	NA	NA	55.656	590.5877	91.5309	NA	NA	7508	119594	18535	NA	NA	4.6866	568.7393	7.9436	NA	NA	157	26617	456	NA	NA	72.4951	597.1548	116.1143	NA	NA	7351	92977	18079	NA	NA	55.656	722.6168	906.464	NA	NA	143	5	NA	NA	721.89	[illegible]
偏心	偏	心	NA	NA	2	LR	SG	NA	NA	PicPho	Picto	NA	NA	pian1xin1	pian1	xin1	NA	NA	pʰjen1ɕin1	pʰjen1	ɕin1	NA	NA	pʰ	n	bian3	NA	NA	NA	7	4	3	NA	NA	1	1	NA	NA	1.5789	60.5975	3688.8741	NA	NA	213	12271	746997	NA	NA	0.597	43.6325	1782.4359	NA	NA	20	2042	83418	NA	NA	1.9034	65.6969	4261.9075	NA	NA	193	10229	663579	NA	NA	1.5789	296.3677	9409.8221	NA	NA	32	431	NA	NA	56.086	[illegible]
青梅	青	梅	NA	NA	2	UD	LR	NA	NA	PicSyn	PicPho	NA	NA	qing1mei2	qing1	mei2	NA	NA	tɕʰiŋ1mei2	tɕʰiŋ1	mei2	NA	NA	tɕʰ	i	NA	mei3	NA	NA	6	3	3	NA	NA	1	2	NA	NA	2.3351	297.684	66.721	NA	NA	315	60281	13511	NA	NA	0.0896	66.3889	63.6325	NA	NA	3	3107	2978	NA	NA	3.0769	367.2062	67.6493	NA	NA	312	57174	10533	NA	NA	2.3351	1552.6761	5894.166	NA	NA	74	13	NA	NA	339.6145	16.9014	[illegible]
[illegible]																																																																																		
冠冕	冠	冕	NA	NA	2	UD	UD	NA	NA	PicSyn	PicPho	NA	NA	guan1mian3	guan1	mian3	NA	NA	kwan1mjen3	kwan1	mjen3	NA	NA	k	n	NA	mian3	NA	NA	8	4	4	NA	NA	1	3	NA	NA	0.1927	96.8	3.8914	NA	NA	26	19602	788	NA	NA	0.2687	64.0385	4.5085	NA	NA	9	2997	211	NA	NA	0.1677	106.4474	3.7058	NA	NA	17	16605	577	NA	NA	0.1927	2064.8703	321.4307	NA	NA	29	5	NA	NA	120.6301	5.1446	[illegible]
剧情	剧	情	NA	NA	2	LR	LR	NA	NA	PicPho	PicPho	NA	NA	ju4qing2	ju4	qing2	NA	NA	tɕy4tɕʰiŋ2	tɕy4	tɕʰiŋ2	NA	NA	tɕ	ŋ	ju1	qing1	NA	NA	5	2	3	NA	NA	4	2	NA	NA	22.854	226.9728	2301.6296	NA	NA	3083	45962	466080	NA	NA	5.1045	179.6368	1480.3205	NA	NA	171	8407	69279	NA	NA	28.7179	241.201	2548.4971	NA	NA	2912	37555	396801	NA	NA	22.854	1942.9503	2763.4322	NA	NA	67	177	NA	NA	[illegible]
资源	资	源	NA	NA	2	UD	LR	NA	NA	PicPho	PicPho	NA	NA	zi1yuan2	zi1	yuan2	NA	NA	tsɿ1ɥen2	tsɿ1	ɥen2	NA	NA	ts	n	ci4	yuan2	NA	NA	5	2	3	NA	NA	1	2	NA	NA	50.2965	240.721	153.7728	NA	NA	6785	48746	31139	NA	NA	14.9851	168.3761	76.2393	NA	NA	502	7880	3568	NA	NA	61.9625	262.4663	177.0777	NA	NA	6283	40866	27571	NA	NA	50.2965	485.1371	3008.9696	NA	NA	54	52	NA	NA	332.9726	[illegible]
损	损	NA	NA	NA	1	LR	NA	NA	NA	PicPho	NA	NA	NA	sun3	sun3	NA	NA	NA	swən3	swən3	NA	NA	NA	s	n	yuan2	NA	NA	NA	4	4	NA	NA	NA	3	NA	NA	NA	1.275	45.3728	NA	NA	NA	172	9188	NA	NA	NA	4.0896	59.2735	NA	NA	NA	137	2774	NA	NA	NA	0.3452	41.1946	NA	NA	NA	35	6414	NA	NA	NA	1.5938	55.278	NA	NA	NA	20	NA	NA	NA	48.8288	[illegible]
蚀	蚀	NA	NA	NA	1	LR	NA	NA	NA	PicSyn	NA	NA	NA	shi2	shi2	NA	NA	NA	ʂɿ2	ʂɿ2	NA	NA	NA	ʂ	ɿ	NA	NA	NA	NA	2	2	NA	NA	NA	2	NA	NA	NA	0.3558	6.1037	NA	NA	NA	48	1236	NA	NA	NA	1.403	5.8974	NA	NA	NA	47	276	NA	NA	NA	0.0099	6.1657	NA	NA	NA	1	960	NA	NA	NA	1194.4552	8062.8984	NA	NA	NA	9	NA	NA	NA	6.3454	[illegible]
云	云	NA	NA	NA	1	SG	NA	NA	NA	Picto	NA	NA	NA	yun2	yun2	NA	NA	NA	yn2	yn2	NA	NA	NA	y	n	NA	NA	NA	NA	2	2	NA	NA	NA	2	NA	NA	NA	54.3365	264.1679	NA	NA	NA	7330	53494	NA	NA	NA	10.8358	34.3803	NA	NA	NA	363	1609	NA	NA	NA	68.7081	333.237	NA	NA	NA	6967	51885	NA	NA	NA	54.5515	439.0215	NA	NA	NA	71	NA	NA	NA	158.4655	[illegible]
雄风	雄	风	NA	NA	2	LR	HCI	NA	NA	PicPho	PicPho	NA	NA	xiong2feng1	xiong2	feng1	NA	NA	ɕjuŋ2fəŋ1	ɕjuŋ2	fəŋ1	NA	NA	ɕ	ŋ	gong1	fan2	NA	NA	7	4	3	NA	NA	2	1	NA	NA	0.8525	192.9877	680.2173	NA	NA	115	39080	137744	NA	NA	1.6716	77.7991	284.2094	NA	NA	56	3641	13301	NA	NA	0.5819	227.6108	799.2486	NA	NA	59	35439	124443	NA	NA	0.8525	345.9526	1619.8221	NA	NA	25	252	NA	NA	244.6	[illegible]
举动	举	动	NA	NA	2	UD	LR	NA	NA	Other	Other	NA	NA	ju3dong4	ju3	dong4	NA	NA	tɕy3tuŋ4	tɕy3	tuŋ4	NA	NA	tɕ	ŋ	NA	NA	NA	NA	5	2	3	NA	NA	3	4	NA	NA	6.9385	176.0296	1375.5852	NA	NA	936	35646	278556	NA	NA	14.1194	146.4316	1052.8632	NA	NA	473	6853	49274	NA	NA	4.5661	184.9261	1472.5883	NA	NA	463	28793	229282	NA	NA	6.9385	271.6827	2148.6509	NA	NA	60	236	NA	NA	228.5915	[illegible]
不论	不	论	NA	NA	2	SG	LR	NA	NA	Picto	PicPho	NA	NA	bu4lun4	bu4	lun4	NA	NA	pu4lwən4	pu4	lwən4	NA	NA	p	n	NA	lun2	NA	NA	6	2	4	NA	NA	4	4	NA	NA	22.083	15110.2864	384.9284	NA	NA	2979	3059833	77948	NA	NA	21.3731	19330.6624	336.1538	NA	NA	716	904675	15732	NA	NA	22.3176	13841.7341	399.589	NA	NA	2263	2155158	62216	NA	NA	22.083	23593.1208	554.8703	NA	NA	669	85	NA	NA	[illegible]
千岁	千	岁	NA	NA	2	SG	UD	NA	NA	PicLog	Other	NA	NA	qian1sui4	qian1	sui4	NA	NA	tɕʰjen1swei4	tɕʰjen1	swei4	NA	NA	tɕʰ	i	NA	NA	NA	NA	8	4	4	NA	NA	1	4	NA	NA	0.1186	287.2988	412.7111	NA	NA	16	58178	83574	NA	NA	0.1791	169.9573	272.3077	NA	NA	6	7954	12744	NA	NA	0.0986	322.569	454.9133	NA	NA	10	50224	70830	NA	NA	0.1186	694.3291	710.8451	NA	NA	71	14	NA	NA	170.9563	147.31	[illegible]
仪式	仪	式	NA	NA	2	LR	HCI	NA	NA	PicPho	PicPho	NA	NA	yi2shi4	yi2	shi4	NA	NA	i2ʂɿ4	i2	ʂɿ4	NA	NA	i	ɿ	yi4	yi4	NA	NA	5	3	1	2	NA	NA	2	4	NA	NA	24.4477	42.3951	461.0321	NA	NA	3298	8585	93359	NA	NA	31.5522	51.859	259.4444	NA	NA	1057	2427	12142	NA	NA	22.1006	39.5504	521.6249	NA	NA	2241	6158	81217	NA	NA	24.4477	626.9311	32940.1705	NA	NA	30	103	NA	NA	50.8586	618.599	[illegible]
样片	样	片	NA	NA	2	LR	SG	NA	NA	PicPho	PicLog	NA	NA	yang4pian4	yang4	pian4	NA	NA	jaŋ4pʰjen4	jaŋ4	pʰjen4	NA	NA	j	n	yang2	NA	NA	NA	7	3	4	NA	NA	4	4	NA	NA	0.9192	2035.042	1065.6247	NA	NA	124	412096	215789	NA	NA	0.6866	3448.9103	457.9274	NA	NA	23	161409	21431	NA	NA	0.9961	1610.0642	1248.2852	NA	NA	101	250687	194358	NA	NA	0.9192	2977.6649	1556.4863	NA	NA	68	106	NA	[illegible]
精练	精	练	NA	NA	2	LR	LR	NA	NA	PicPho	PicPho	NA	NA	jing1lian4	jing1	lian4	NA	NA	tɕiŋ1ljen4	tɕiŋ1	ljen4	NA	NA	tɕ	n	qing1	jian3	NA	NA	7	3	4	NA	NA	1	4	NA	NA	0.089	531.1704	141.2148	NA	NA	12	107562	28596	NA	NA	0.1493	295.8974	194.9786	NA	NA	5	13848	9125	NA	NA	0.069	601.8882	125.0546	NA	NA	7	93714	19471	NA	NA	0.7339	3546.9311	764.6924	NA	NA	91	40	NA	NA	632.7428	129.369	[illegible]
留心	留	心	NA	NA	2	UD	SG	NA	NA	PicSyn	Picto	NA	NA	liu2xin1	liu2	xin1	NA	NA	ljou2ɕin1	ljou2	ɕin1	NA	NA	l	n	NA	NA	NA	NA	7	4	3	NA	NA	2	1	NA	NA	2.8614	331.5605	3688.8741	NA	NA	386	67141	746997	NA	NA	4.806	467.0726	1782.4359	NA	NA	161	21859	83418	NA	NA	2.2189	290.8285	4261.9075	NA	NA	225	45282	663579	NA	NA	2.8614	1087.9096	9409.8221	NA	NA	62	431	NA	NA	289.2142	41 [illegible]
奇谈	奇	谈	NA	NA	2	UD	LR	NA	NA	PicPho	PicPho	NA	NA	qi2tan2	qi2	tan2	NA	NA	tɕʰi2tʰan2	tɕʰi2	tʰan2	NA	NA	tɕʰ	n	ke3	yan2	NA	NA	5	2	3	NA	NA	2	2	NA	NA	0.1927	364.3506	295.0963	NA	NA	26	73781	59757	NA	NA	0.1791	383.5897	762.8846	NA	NA	6	17952	35703	NA	NA	0.1972	358.5678	154.4894	NA	NA	20	55829	24054	NA	NA	0.2224	1728.169	516.2713	NA	NA	51	51	NA	NA	381.3714	194.0252	[illegible]
钟	钟	NA	NA	NA	1	LR	NA	NA	NA	PicPho	NA	NA	NA	zhong1	zhong1	NA	NA	NA	tʂuŋ1	tʂuŋ1	NA	NA	NA	tʂ	ŋ	zhong1	NA	NA	NA	3	3	NA	NA	NA	1	NA	NA	NA	58.7843	377.3037	NA	NA	NA	7930	76404	NA	NA	NA	74.2985	317.4786	NA	NA	NA	2489	14858	NA	NA	NA	53.6588	395.2858	NA	NA	NA	5441	61546	NA	NA	NA	1998.6879	4795.8117	NA	NA	NA	36	NA	NA	NA	448.4581	[illegible]
弟兄	弟	兄	NA	NA	2	SG	UD	NA	NA	Picto	PicSyn	NA	NA	di4xiong4	di4	xiong4	NA	NA	ti4ɕjuŋ4	ti4	ɕjuŋ4	NA	NA	t	ŋ	NA	NA	NA	NA	6	2	4	NA	NA	4	4	NA	NA	3.8992	268.5284	184.8642	NA	NA	526	54377	37435	NA	NA	9.194	379.6581	307.1154	NA	NA	308	17768	14373	NA	NA	2.1499	235.1252	148.1182	NA	NA	218	36609	23062	NA	NA	3.8992	4923.4025	3.8992	NA	NA	29	20	NA	NA	326.2268	243.7139	[illegible]
寒心	寒	心	NA	NA	2	UD	SG	NA	NA	PicSyn	Picto	NA	NA	han2xin1	han2	xin1	NA	NA	xan2ɕin1	xan2	ɕin1	NA	NA	x	n	NA	NA	NA	NA	6	3	3	NA	NA	2	1	NA	NA	1.616	205.3531	3688.8741	NA	NA	218	41584	746997	NA	NA	0.0896	13.2479	1782.4359	NA	NA	3	620	83418	NA	NA	2.1203	263.0957	4261.9075	NA	NA	215	40964	663579	NA	NA	1.616	427.3981	9409.8221	NA	NA	40	431	NA	NA	157.2498	4197.753	[illegible]
掮客	掮	客	NA	NA	2	LR	UD	NA	NA	PicPho	PicPho	NA	NA	qian2ke4	qian2	ke4	NA	NA	tɕʰjen2kʰɤ4	tɕʰjen2	kʰɤ4	NA	NA	tɕʰ	ɤ	jian1	ge4	NA	NA	6	4	2	NA	NA	2	4	NA	NA	0.4967	0.3407	685.6593	NA	NA	67	69	138846	NA	NA	0.7164	0.5128	273.7179	NA	NA	24	24	12810	NA	NA	0.4241	0.289	809.4798	NA	NA	43	45	126036	NA	NA	0.4967	2857.3091	1451.0526	NA	NA	1	86	NA	NA	0.4967	425.3966	NA	[illegible]
搏	搏	NA	NA	NA	1	LR	NA	NA	NA	PicPho	NA	NA	NA	bo2	bo2	NA	NA	NA	pwo2	pwo2	NA	NA	NA	p	o	fu1	NA	NA	NA	3	3	NA	NA	NA	2	NA	NA	NA	3.9214	23.4963	NA	NA	NA	529	4758	NA	NA	NA	6.6269	20.0641	NA	NA	NA	222	939	NA	NA	NA	3.0276	24.5279	NA	NA	NA	307	3819	NA	NA	NA	2335.7746	2851.3343	NA	NA	NA	8	NA	NA	NA	22.0682	[illegible]
项	项	NA	NA	NA	1	LR	NA	NA	NA	PicPho	NA	NA	NA	suo3	suo3	NA	NA	NA	swo3	swo3	NA	NA	NA	s	o	NA	NA	NA	NA	3	3	NA	NA	NA	3	NA	NA	NA	0.089	16.158	NA	NA	NA	12	3272	NA	NA	NA	0.2388	5.1282	NA	NA	NA	8	240	NA	NA	NA	0.0394	19.4733	NA	NA	NA	4	3032	NA	NA	NA	389.1401	2021.9496	NA	NA	NA	6	NA	NA	NA	22.2758	[illegible]
教学	教	学	NA	NA	2	LR	UD	NA	NA	PicPho	Other	NA	NA	jiao4xue2	jiao4	xue2	NA	NA	tɕjau4ɕɥe2	tɕjau4	ɕɥe2	NA	NA	tɕ	e	xiao4	NA	NA	NA	7	4	3	NA	NA	4	2	NA	NA	7.8651	331.5062	1166.4395	NA	NA	1061	67130	236204	NA	NA	5.5522	465.1282	896.6667	NA	NA	186	21768	41964	NA	NA	8.6292	291.3423	1247.5273	NA	NA	875	45362	194240	NA	NA	7.8651	2007.2053	1594.5219	NA	NA	125	248	NA	NA	[illegible]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]

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路灯, 路, 灯, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, lu4deng1, lu4, deng1, NA, NA, lu4təŋ1, lu4, təŋ1, NA, NA, l, ŋ, ge4, ding1, NA, NA, 5, 2, 3, NA, NA, 4, 1, NA, NA, 3.1431, 834.2963, 163.0173, NA, NA, 424, 168945, 33011, NA, NA, 1.403, 501.3248, 94.2949, NA, NA, 47, 23462, 4413, NA, NA
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群山, 群, 山, NA, NA, 2, LR, SG, NA, NA, PicPho, Picto, NA, NA, qun2shan1, qun2, shan1, NA, NA, tɕʰyn2ʂan1, tɕʰyn2, ʂan1, NA, NA, tɕʰ, n, jun1, NA, NA, NA, 6, 3, 3, NA, NA, 2, 1, NA, NA, 1.4455, 162.6667, 517.916, NA, NA, 195, 32940, 104878, NA, NA, 1.4925, 104.2735, 187.5855, NA, NA, 50, 4880, 8779, NA, NA
坡度, 坡, 度, NA, NA, 2, LR, HCI, NA, NA, PicPho, PicPho, NA, NA, po1du4, po1, du4, NA, NA, pʰwo1tu4, pʰwo1, tu4, NA, NA, pʰ, u, pi2, shu4, NA, NA, 5, 3, 2, NA, NA, 1, 4, NA, NA, 0.3558, 35.0123, 1239.8568, NA, NA, 48, 7090, 251071, NA, NA, 0.209, 10.8974, 371.453, NA, NA, 7, 510, 17384, NA, NA, 0.4043
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楼房, 楼, 房, NA, NA, 2, LR, HCI, NA, NA, PicPho, PicPho, NA, NA, lou2fang2, lou2, fang2, NA, NA, lou2faŋ2, lou2, faŋ2, NA, NA, l, ŋ, lou2, fang1, NA, NA, 6, 3, 3, NA, NA, 2, 2, NA, NA, 1.9199, 207.5951, 457.1852, NA, NA, 259, 42038, 92580, NA, NA, 1.3433, 196.0684, 539.4444, NA, NA, 45, 9176, 25246, NA, NA
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浓淡, 浓, 淡, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, nong2dan4, nong2, dan4, NA, NA, nuŋ2tan4, nuŋ2, tan4, NA, NA, n, n, nong2, yan2, NA, NA, 6, 3, 3, NA, NA, 2, 4, NA, NA, 0.3781, 57.0716, 160.9926, NA, NA, 51, 11557, 32601, NA, NA, 0.0597, 18.0556, 22.0299, NA, NA, 2, 845, 1031, NA, NA, 0.4832
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泥沼, 泥, 沼, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, ni2zhao3, ni2, zhao3, NA, NA, ni2ʈʂau3, ni2, ʈʂau3, NA, NA, n, u, ni2, zhao4, NA, NA, 5, 2, 3, NA, NA, 2, 3, NA, NA, 0.6004, 44.9679, 3.5012, NA, NA, 81, 9106, 709, NA, NA, 0.8657, 31.453, 9.2521, NA, NA, 29, 1472, 433, NA, NA, 0.5128, 49.0302
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机体, 机, 体, NA, NA, 2, LR, LR, NA, NA, PicPho, PicSyn, NA, NA, ji1ti3, ji1, ti3, NA, NA, tɕi1tʰi3, tɕi1, tʰi3, NA, NA, tɕ, i, ji1, NA, NA, NA, 4, 2, 2, NA, NA, 1, 3, NA, NA, 2.6686, 1506.3259, 1049.1704, NA, NA, 360, 305031, 212457, NA, NA, 1.2239, 1044.9145, 568.1624, NA, NA, 41, 48902, 26590, NA, NA, 3.146
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大脚, 大, 脚, NA, NA, 2, SG, LR, NA, NA, Picto, PicPho, NA, NA, da4jiao3, da4, jiao3, NA, NA, ta4tɕjau3, ta4, tɕjau3, NA, NA, t, u, NA, que4, NA, NA, 6, 2, 4, NA, NA, 4, 3, NA, NA, 1.7272, 5363.1802, 215.7383, NA, NA, 233, 1086044, 43687, NA, NA, 4.0299, 2888.0128, 159.2735, NA, NA, 135, 135159, 7454, NA, NA
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莹, 莹, NA, NA, NA, 1, UD, NA, NA, NA, Other, NA, NA, NA, ying2, ying2, NA, NA, NA, iŋ2, iŋ2, NA, NA, NA, i, ŋ, NA, NA, NA, NA, 2, 2, NA, NA, NA, 2, NA, NA, NA, 0.1334, 10.9185, NA, NA, NA, 18, 2211, NA, NA, NA, 0.0597, 0.3205, NA, NA, NA, 2, 15, NA, NA, NA, 0.1578, 14.104, NA, NA, NA, 16, 2196
火候, 火, 候, NA, NA, 2, SG, LR, NA, NA, Picto, PicPho, NA, NA, huo3hou4, huo3, hou4, NA, NA, xwo3xou4, xwo3, xou4, NA, NA, x, u, NA, hou2, NA, NA, 6, 3, 3, NA, NA, 3, 4, NA, NA, 1.2528, 528.6667, 1091.6099, NA, NA, 169, 107055, 221051, NA, NA, 1.1642, 394.8504, 1246.5171, NA, NA, 39, 18479, 58337
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班底, 班, 底, NA, NA, 2, LR, HCI, NA, NA, PicSyn, PicPho, NA, NA, ban1di3, ban1, di3, NA, NA, pan1ti3, pan1, ti3, NA, NA, p, i, NA, di3, NA, NA, 5, 3, 2, NA, NA, 1, 3, NA, NA, 0.3706, 543.8222, 438.5926, NA, NA, 50, 110124, 88815, NA, NA, 0.3284, 237.6068, 431.8376, NA, NA, 11, 11120, 20210, NA, NA, 0.3846
躲懒, 躲, 懒, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, duo3lan3, duo3, lan3, NA, NA, two3lan3, two3, lan3, NA, NA, t, n, duo3, lai4, NA, NA, 6, 3, 3, NA, NA, 3, 3, NA, NA, 0.0148, 49.2395, 92.2469, NA, NA, 2, 9971, 18680, NA, NA, 0.0299, 76.5598, 19.0385, NA, NA, 1, 3583, 891, NA, NA, 0.0099, 41.0276
粉红, 粉, 红, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, fen3hong2, fen3, hong2, NA, NA, fən3xuŋ2, fən3, xuŋ2, NA, NA, f, ŋ, fen1, gong1, NA, NA, 6, 3, 3, NA, NA, 3, 2, NA, NA, 21.8829, 290.716, 687.8173, NA, NA, 2952, 58870, 139283, NA, NA, 7.7612, 77.6496, 159.9359, NA, NA, 260, 3634, 7485, NA, NA
切磋, 切, 磋, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, qie1cuo1, qie1, cuo1, NA, NA, tɕʰje1tsʰwo1, tɕʰje1, tsʰwo1, NA, NA, tɕʰ, o, qi1, cha1, NA, NA, 6, 3, 3, NA, NA, 1, 1, NA, NA, 25.871, 555.2889, 17.6691, NA, NA, 3490, 112446, 3578, NA, NA, 0.3881, 602.6068, 0.6197, NA, NA, 13, 28202, 29, NA, NA
生命, 生, 命, NA, NA, 2, SG, UD, NA, NA, PicSyn, PicSyn, NA, NA, sheng1ming4, sheng1, ming4, NA, NA, ʂəŋ1miŋ4, ʂəŋ1, miŋ4, NA, NA, ʂ, ŋ, NA, NA, NA, NA, 6, 3, 3, NA, NA, 1, 4, NA, NA, 208.94, 3215.2988, 482.2568, NA, NA, 28186, 651098, 97657, NA, NA, 176.0597, 3477.0299, 534.4872, NA, NA, 5898, 162725

带劲, 带, 劲, NA, NA, 2, UD, LR, NA, NA, Picto, Other, NA, NA, dai4jin4, dai4, jin4, NA, NA, tai4tɕin4, tai4, tɕin4, NA, NA, t, n, NA, NA, NA, NA, 6, 3, 3, NA, NA, 4, 4, NA, NA, 2.2016, 754.6864, 83.6296, NA, NA, 297, 152824, 16935, NA, NA, 1.8806, 967.5855, 81.8803, NA, NA, 63, 45283, 3832, NA, NA, 2.3077, 690.6936, 84.1554, NA, NA, 234, 107541, 13103, NA, NA, 4.1735, 2423.5508, 2019.0734, NA, NA, 104, 37, NA, NA, 337.5834, 73.7583, NA, NA, 16, 9, 7, NA, NA, 362
牙, 牙, NA, NA, NA, 1, SG, NA, NA, NA, Picto, NA, NA, NA, ya2, ya2, NA, NA, NA, ja2, ja2, NA, NA, NA, j, a, NA, NA, NA, NA, 2, 2, NA, NA, NA, 2, NA, NA, NA, 29.8295, 140.8642, NA, NA, NA, 4024, 28525, NA, NA, NA, 36.4478, 136.0043, NA, NA, NA, 1221, 6365, NA, NA, NA, 27.643, 142.325, NA, NA, NA, 2803, 22160, NA, NA, NA, 35.5211, 263.0096, NA, NA, NA, 58, NA, NA, NA, 98.3914, NA, NA, NA, 4, 4, NA, NA, NA, 2939, NA, NA, NA, 241
上等, 上, 等, NA, NA, 2, SG, UD, NA, NA, PicLog, PicSyn, NA, NA, shang4deng3, shang4, deng3, NA, NA, ʂaŋ4təŋ3, ʂaŋ4, təŋ3, NA, NA, ʂ, ŋ, NA, NA, NA, NA, 6, 3, 3, NA, NA, 4, 3, NA, NA, 1.1268, 4716.721, 1261.6889, NA, NA, 152, 955136, 255492, NA, NA, 3.2836, 5052.3718, 1521.0256, NA, NA, 110, 236451, 71184, NA, NA, 0.4142, 4615.8317, 1183.738, NA, NA, 42, 718685, 184308, NA, NA, 1.1268, 6415.1149, 1903.3062, NA, NA, 285, 53, NA, NA, 3394.0252, 594.937, NA
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忍让, 忍, 让, NA, NA, 2, UD, LR, NA, NA, PicPho, PicPho, NA, NA, ren3rang4, ren3, rang4, NA, NA, ...
伏天, 伏, 天, NA, NA, 2, LR, UD, NA, NA, PicSyn, PicLog, NA, NA, fu2tian1, fu2, tian1, NA, NA, ...
布施, 布, 施, NA, NA, 2, HCI, LR, NA, NA, PicPho, PicPho, NA, NA, bu4shi1, bu4, shi1, NA, NA, ...
干, 干, NA, NA, NA, 1, SG, NA, NA, NA, Other, NA, NA, NA, gan4, gan4, NA, NA, NA, ...
零用, 零, 用, NA, NA, 2, UD, SG, NA, NA, PicPho, Picto, NA, NA, ling2yong4, ling2, yong4, NA, NA, ...
赶忙, 赶, 忙, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, gan3mang2, gan3, mang2, NA, NA, ...
耶稣, 耶, 稣, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, ye1su1, ye1, su1, NA, NA, ...
赢得, 赢, 得, NA, NA, 2, UD, LR, NA, NA, PicSyn, PicSyn, NA, NA, ying2de2, ying2, de2, NA, NA, ...
约法, 约, 法, NA, NA, 2, LR, LR, NA, NA, PicPho, PicSyn, NA, NA, yue1fa3, yue1, fa3, NA, NA, ...
落实, 落, 实, NA, NA, 2, UD, UD, NA, NA, PicPho, PicSyn, NA, NA, luo4shi2, luo4, shi2, NA, NA, ...
呃, 呃, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, e5, e5, NA, NA, NA, ...
日, 日, NA, NA, NA, 1, SG, NA, NA, NA, Picto, NA, NA, NA, ri4, ri4, NA, NA, NA, ...
树苗, 树, 苗, NA, NA, 2, LR, UD, NA, NA, PicPho, PicSyn, NA, NA, shu4miao2, shu4, miao2, NA, NA, ...
寰球, 寰, 球, NA, NA, 2, UD, LR, NA, NA, PicPho, PicPho, NA, NA, huan2qiu2, huan2, qiu2, NA, NA, ...
山, 山, NA, NA, NA, 1, SG, NA, NA, NA, Picto, NA, NA, NA, shan1, shan1, NA, NA, NA, ...
示例, 示, 例, NA, NA, 2, SG, LR, NA, NA, PicSyn, PicSyn, NA, NA, shi4li4, shi4, li4, NA, NA, ...

[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem.

Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur? At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.

林, 林, NA, NA, NA, 1, LR, LR, NA, NA, PicSyn, NA, NA, lin2lin2, lin2, NA, NA, lin2, lin2, NA, NA, l, n, NA, NA, NA, 3, 3, NA, NA, NA, 1, 1, NA, NA, NA, 27.5019, 222.0593, NA, NA, 3710, 44967, NA, NA, 37.403, 213.4829, NA, NA, 1253, 9991, NA, NA, 24.2308, 224.6371, NA, NA, 2457, 34976, NA, NA, 52.9726, 431.2231, NA, NA, 57, NA, NA, NA, 110, NA, NA, 8, 8, NA, NA, 3654, NA, NA, NA, 3177, NA, NA, NA, 2205.65, NA, NA, NA, 9, 10, NA, NA, NA, 1.45, 1.4, NA, NA, NA, 木, NA, NA, NA, 23327.0765, NA, NA
拔腿, 拔, 腿, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, ba2tui3, ba2, tui3, NA, NA, pa2tʰwei3, pa2, tʰwei3, NA, NA, p, i, ba2, tui4, NA, NA, 6, 2, 4, NA, NA, 2, 3, NA, NA, 0.2891, 43.5111, 130.3654, NA, NA, 39, 8811, 26399, NA, NA, 0.2388, 32.6709, 106.4744, NA, NA, 8, 1529, 4983, NA, NA, 0.3057, 46.7694, 137.5466, NA, NA, 31, 7282, 21416, NA, NA, 0.2891, 37.6575, 122.6093, NA, NA, 23, 31, NA, NA, 27.3684, 42.891, NA, NA, 22, 8, 14, NA, NA, 4196, 4516, NA, NA, 4039, 3638, NA, NA, 2444.55, 2560.65, NA, NA, 0, 19, 11, NA, NA, 2.6, 1, 1.4, NA, NA, 扌, 月, NA
文官, 文, 官, NA, NA, 2, SG, UD, NA, NA, Picto, PicSyn, NA, NA, wen2guan1, wen2, guan1, NA, NA, wən2kwan1, wən2, kwan1, NA, NA, w, n, NA, NA, NA, 7, 3, 4, NA, NA, 2, 1, NA, NA, 0.1334, 665.6148, 220.0494, NA, NA, 18, 134787, 44560, NA, NA, 0.1791, 303.3333, 457.3718, NA, NA, 6, 14196, 21405, NA, NA, 0.1183, 754.5087, 148.7155, NA, NA, 12, 120591, 23155, NA, NA, 0.1334, 1105.7524, 2064.8703, NA, NA, 188, 81, NA, NA, 764.47, 268.1319, NA, NA, 12, 4, 8, NA, NA, 2869, 3176, NA, NA, 3017, 1540, NA, NA, 2260.2, 2132.65, NA, NA, 0, 13, 14, NA, NA, 2.6, 1.1
注目, 注, 目, NA, NA, 2, LR, SG, NA, NA, PicPho, Picto, NA, NA, zhu4mu4, zhu4, mu4, NA, NA, tʂu4mu4, tʂu4, mu4, NA, NA, tʂ, u, zhu3, NA, NA, 4, 2, 2, NA, NA, 4, 4, NA, NA, 1.6827, 500.4938, 441.8173, NA, NA, 227, 101350, 89468, NA, NA, 0.8358, 326.047, 480.3846, NA, NA, 28, 15259, 22482, NA, NA, 1.9625, 552.9287, 430.2248, NA, NA, 199, 86091, 66986, NA, NA, 1.6827, 3163.5285, 1646.0267, NA, NA, 40, 95, NA, NA, 719.5997, 614.3958, NA, NA, 13, 8, 5, NA, NA, 2776, 3064, NA, NA, 2715, 961, NA, NA, 2023.95, 2115.9, NA, NA, 8, 24, 22, NA, NA, 1.6, 1, 1
生疏, 生, 疏, NA, NA, 2, SG, LR, NA, NA, PicSyn, PicSyn, NA, NA, sheng1shu1, sheng1, shu1, NA, NA, ʂəŋ1ʂu1, ʂəŋ1, ʂu1, NA, NA, ʂ, əŋ, shu4, NA, NA, 5, 3, 2, NA, NA, 1, 1, NA, NA, 1.831, 3215.2988, 16.8691, NA, NA, 247, 651098, 3416, NA, NA, 1.2239, 3477.0299, 17.5855, NA, NA, 41, 162725, 823, NA, NA, 2.0316, 3136.6281, 16.6538, NA, NA, 206, 488373, 2593, NA, NA, 1.831, 5159.9185, 1084.381, NA, NA, 378, 17, NA, NA, 4243.2691, 19.0586, NA, NA, 16, 5, 11, NA, NA, 3031, 4075, NA, NA, 1725, 3850, NA, NA, 2320.8, 2926.65, NA, NA, 2, 21, 22, NA, NA, 1.9, 1.1, NA
晚安, 晚, 安, NA, NA, 2, LR, UD, NA, NA, PicPho, PicSyn, NA, NA, wan3an1, wan3, an1, NA, NA, wan3an1, wan3, an1, NA, NA, w, n, mian3, NA, NA, 5, 3, 2, NA, NA, 3, 1, NA, NA, 376.3454, 1634.5432, 1186.3111, NA, NA, 50769, 330995, 240228, NA, NA, 113.3134, 1079.3162, 891.4316, NA, NA, 3796, 50512, 41719, NA, NA, 463.2446, 1801.4322, 1274.9454, NA, NA, 46973, 280483, 198509, NA, NA, 376.3454, 2127.6872, 1534.5812, NA, NA, 34, 159, NA, NA, 1747.1979, 1460.7635, NA, NA, 17, 11, 6, NA, NA, 4077, 3385, NA, NA, 3145, 3016, NA, NA, 2532.45, 2482.4, NA, NA
集结, 集, 结, NA, NA, 2, UD, LR, NA, NA, PicSyn, PicPho, NA, NA, ji2jie2, ji2, jie2, NA, NA, tɕi2tɕje2, tɕi2, tɕje2, NA, NA, tɕ, e, NA, ji2, NA, NA, 5, 2, 3, NA, NA, 3, 2, NA, NA, 3.7287, 263.2988, 754.2321, NA, NA, 503, 53318, 152732, NA, NA, 2.7164, 243.6538, 704.6795, NA, NA, 91, 11403, 32979, NA, NA, 4.0631, 269.2036, 769.1265, NA, NA, 412, 41915, 119753, NA, NA, 3.7287, 2930.6227, 2371.6827, NA, NA, 72, 103, NA, NA, 196.6271, 1058.1616, NA, NA, 21, 12, 9, NA, NA, 4391, 3659, NA, NA, 3005, 3198, NA, NA, 2760.15, 2229.7, NA, NA, 15, 10, 19, NA, NA, 1.9, 1.2, 1.5
小吃, 小, 吃, NA, NA, 2, SG, LR, NA, NA, PicLog, PicPho, NA, NA, xiao3chi1, xiao3, chi1, NA, NA, ɕjau3tʂʰɻ1, ɕjau3, tʂʰɻ1, NA, NA, ɕ, ɻ, NA, qi3, NA, NA, 9, 3, 6, NA, NA, 4, 2, NA, NA, 15.3299, 2825.2741, 1526.8444, NA, NA, 2068, 572118, 309186, NA, NA, 2.8657, 2125.3846, 722.8419, NA, NA, 96, 99468, 33829, NA, NA, 19.4477, 3035.6455, 1768.51, NA, NA, 1972, 472650, 275357, NA, NA, 15.3299, 3926.1601, 2100.0519, NA, NA, 30, 44, NA, NA, 1807.3017, 373.4989, NA, NA, 9, 3, 6, NA, NA, 1961, 3349, NA, NA, 2384, 2819, NA, NA, 1968.15, 2339.3, NA, NA, 3, 14, 11, NA
邮差, 邮, 差, NA, NA, 2, LR, UD, NA, NA, PicPho, PicSyn, NA, NA, you2chai1, you2, chai1, NA, NA, jou2tʂʰai1, jou2, tʂʰai1, NA, NA, j, i, you2, NA, NA, 6, 3, 3, NA, NA, 2, 1, NA, NA, 1.831, 66.7951, 273.0617, NA, NA, 247, 13526, 55295, NA, NA, 3.4925, 56.9658, 237.4359, NA, NA, 117, 2666, 11112, NA, NA, 1.2821, 69.7495, 283.7701, NA, NA, 130, 10860, 44183, NA, NA, 1.831, 1967.7317, 57.4055, NA, NA, 27, 53, NA, NA, 57.8651, 205.6116, NA, NA, 17, 7, 10, NA, NA, 4097, 4007, NA, NA, 2265, 2666, NA, NA, 2360.05, 2660.95, NA, NA, 0, 12, 17, NA, NA, 2.05, 1.2, 1, NA
鱼翅, 鱼, 翅, NA, NA, 2, UD, LRB, NA, NA, Picto, PicPho, NA, NA, yu2chi4, yu2, chi4, NA, NA, y2tʂʰɻ4, y2, tʂʰɻ4, NA, NA, y, ɻ, NA, zhi1, NA, NA, 18, 8, 10, NA, NA, 4, 4, NA, NA, 1.8829, 304.5037, 27.2379, NA, NA, 254, 61662, 5524, NA, NA, 0.4478, 154.359, 12.5764, NA, NA, 15, 7224, 597, NA, NA, 2.357, 349.6339, 31.6442, NA, NA, 239, 54438, 4927, NA, NA, 1.8829, 2489.3106, 89.6294, NA, NA, 110, 6, NA, NA, 163.6175, 32.7205, NA, NA, 18, 8, 10, NA, NA, 3753, 4571, NA, NA, 1962, 4179, NA, NA, 2502.9, 3233.95, NA, NA, 3, 8, 12, NA, NA, 鱼, 羽, NA
彩头, 彩, 头, NA, NA, 2, LR, LR, NA, NA, PicPho, Other, NA, NA, cai3tou2, cai3, tou2, NA, NA, tsʰai3tʰou2, tsʰai3, tʰou2, NA, NA, tsʰ, u, cai3, NA, NA, 6, 3, 3, NA, NA, 3, 3, NA, NA, 5.4707, 443.0321, 1096.242, NA, NA, 738, 89714, 221989, NA, NA, 0.1791, 114.9786, 1048.4829, NA, NA, 6, 5381, 49069, NA, NA, 7.2189, 541.6378, 1110.5973, NA, NA, 732, 84333, 172920, NA, NA, 5.4707, 694.344, 1861.6976, NA, NA, 65, 364, NA, NA, 557.6946, 1147.3758, NA, NA, 16, 11, 5, NA, NA, 3558, 2650, NA, NA, 4424, 3076, NA, NA, 3127.8, 2670.45, NA, NA, 2, 18, 11, NA, NA, 1.85, 1
强权, 强, 权, NA, NA, 2, LR, LR, NA, NA, PicPho, Other, NA, NA, qiang2quan2, qiang2, quan2, NA, NA, tɕʰjaŋ2tɕʰɥɛn2, tɕʰjaŋ2, tɕʰɥɛn2, NA, NA, tɕʰ, n, hong2, NA, NA, 8, 4, 4, NA, NA, 2, 2, NA, NA, 0.5373, 480.9877, 119.1012, NA, NA, 72, 97400, 24118, NA, NA, 0.5373, 336.6453, 219.7222, NA, NA, 18, 15755, 10283, NA, NA, 0.5325, 524.3738, 88.8568, NA, NA, 54, 81645, 13835, NA, NA, 0.5337, 684.3291, 1655.1371, NA, NA, 85, 119, NA, NA, 513.1505, 138.5619, NA, NA, 18, 12, 6, NA, NA, 3911, 3637, NA, NA, 2598, 3627, NA, NA, 2905.55, 2207.35, NA, NA, 0, 8, 5, NA
卸装, 卸, 装, NA, NA, 2, LR, UD, NA, NA, PicSyn, PicPho, NA, NA, xie4zhuang1, xie4, zhuang1, NA, NA, ɕje4tʂwaŋ1, ɕje4, tʂwaŋ1, NA, NA, ɕ, ŋ, NA, zhuang4, NA, NA, 7, 3, 4, NA, NA, 4, 1, NA, NA, 0.0371, 19.7136, 456.9975, NA, NA, 5, 3992, 92542, NA, NA, 0.0597, 10.1709, 376.7735, NA, NA, 2, 476, 17633, NA, NA, 0.0296, 22.5819, 481.1111, NA, NA, 3, 3516, 74909, NA, NA, 6.9755, 2312.8021, 739.659, NA, NA, 11, 128, NA, NA, 14.5515, 463.6101, NA, NA, 20, 8, 12, NA, NA, 3645, 3686, NA, NA, 2463, 3745, NA, NA, 2776.65, 2717.2, NA, NA, 2, 12, 7, NA, NA, 2.5, 1.4
肿瘤, 肿, 瘤, NA, NA, 2, LR, HCI, NA, NA, PicPho, PicPho, NA, NA, zhong3liu2, zhong3, liu2, NA, NA, tʂuŋ3ljou2, tʂuŋ3, ljou2, NA, NA, tʂ, u, zhong1, liu2, NA, NA, 7, 3, 4, NA, NA, 3, 2, NA, NA, 6.8347, 84.2963, 9.7827, NA, NA, 922, 17070, 1981, NA, NA, 13.6119, 25.1282, 22.1581, NA, NA, 456, 1176, 1037, NA, NA, 4.5957, 102.0809, 6.0629, NA, NA, 466, 15894, 944, NA, NA, 6.8347, 1493.5508, 1087.9096, NA, NA, 16, 8, NA, NA, 31.0082, 10.8821, NA, NA, 23, 8, 15, NA, NA, 4178, 4694, NA, NA, 1988, 3887, NA, NA, 2477.9, 2840.05, NA, NA, 2, 15, 8, NA, NA, 2.55, 1.25, 1.5
摄像, 摄, 像, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, she4xiang4, she4, xiang4, NA, NA, ʂɤ4ɕjaŋ4, ʂɤ4, ɕjaŋ4, NA, NA, ʂ, ŋ, nie4, xiang4, NA, NA, 6, 2, 4, NA, NA, 4, 4, NA, NA, 2.4611, 94.5728, 873.1012, NA, NA, 332, 19151, 176803, NA, NA, 3.5821, 112.4145, 1521.0684, NA, NA, 120, 5261, 71186, NA, NA, 2.0907, 89.21, 678.3365, NA, NA, 212, 13890, 105617, NA, NA, 2.4611, 989.2735, 3085.7821, NA, NA, 24, 56, NA, NA, 127.9318, 420.0371, NA, NA, 27, 13, 14, NA, NA, 4811, 4181, NA, NA, 3664, 4091, NA, NA, 2920.1, 2683.25, NA, NA, 5, 19, 9, NA, NA, 1.7, 1
衰微, 衰, 微, NA, NA, 2, SG, LR, NA, NA, PicSyn, PicSyn, NA, NA, shuai1wei1, shuai1, wei1, NA, NA, ʂwai1wei1, ʂwai1, wei1, NA, NA, ʂ, i, NA, NA, NA, 7, 4, 3, NA, NA, 1, 1, NA, NA, 0.1557, 40.4247, 2807.684, NA, NA, 21, 8186, 568556, NA, NA, 0.0597, 17.3291, 95.1496, NA, NA, 2, 811, 4453, NA, NA, 0.1874, 47.3667, 3623.0122, NA, NA, 19, 7375, 564103, NA, NA, 0.1557, 98.3988, 2879.1846, NA, NA, 14, 60, NA, NA, 26.9607, 289.7331, NA, NA, 23, 10, 13, NA, NA, 4053, 4274, NA, NA, 2787, 4855, NA, NA, 2551.35, 3071.35, NA, NA, 0, 7, 10, NA, NA, 2.75, 1.5, 1.05, NA
军乐, 军, 乐, NA, NA, 2, UD, SG, NA, NA, PicSyn, Other, NA, NA, jun1yue4, jun1, yue4, NA, NA, tɕyn1ɥe4, tɕyn1, ɥe4, NA, NA, tɕ, e, NA, NA, NA, 5, 3, 2, NA, NA, 1, 4, NA, NA, 0.0371, 286.084, 1581.5407, NA, NA, 5, 57932, 320262, NA, NA, 0.0597, 331.5385, 565.2991, NA, NA, 2, 15516, 26456, NA, NA, 0.0296, 272.4213, 1887.0006, NA, NA, 3, 42416, 293806, NA, NA, 0.0371, 594.7961, 2569.5404, NA, NA, 176, 144, NA, NA, 379.8517, 1996.7013, NA, NA, 12, 6, 6, NA, NA, 3611, 2906, NA, NA, 2188, 2794, NA, NA, 2600.2, 2201.3, NA, NA, 0, 3, 1, NA, NA, 2.05, 1.7, NA
零售, 零, 售, NA, NA, 2, UD, UD, NA, NA, PicPho, Other, NA, NA, ling2shou4, ling2, shou4, NA, NA, liŋ2ʂou4, liŋ2, ʂou4, NA, NA, l, u, ling4, NA, NA, 6, 3, 3, NA, NA, 3, 2, NA, NA, 3.0689, 96.6272, 91.8617, NA, NA, 414, 19567, 18602, NA, NA, 1.6119, 49.9359, 42.3932, NA, NA, 54, 2337, 1984, NA, NA, 3.5503, 110.6615, 106.7309, NA, NA, 360, 17230, 16618, NA, NA, 3.0689, 693.0912, 1407.3907, NA, NA, 39, 37, NA, NA, 87.2498, 100.3336, NA, NA, 24, 13, 11, NA, NA, 3892, 4270, NA, NA, 3106, 2128, NA, NA, 3137.45, 2621.25, NA, NA, 1, 13, 17, NA, NA, 2.05, 1.25, 1.05
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地方, 地, 方, NA, NA, 2, LR, SG, NA, NA, PicSyn, Picto, NA, NA, di4fang1, di4, fang1, NA, NA, ti4faŋ1, ti4, faŋ1, NA, NA, t, ŋ, ye3, NA, NA, NA, NA, 5, 2, 3, NA, NA, 4, 1, NA, NA, 381.742, 2165.5259, 1010.4889, NA, NA, 51497, 438519, 204624, NA, NA, 697.2537, 1669.4231, 1126.9872, NA, NA, 23358, 78129, 52743, NA, NA, 277.5049, 2314.6435, 975.4721, NA, NA, 28139, 360390, 151881, NA, NA, 381.742, 4923.4025, 1464.5812, NA, NA, 295, 159, NA, [illegible]
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风味, 风, 味, NA, NA, 2, HCI, LR, NA, NA, PicPho, PicPho, NA, NA, feng1wei4, feng1, wei4, NA, NA, fəŋ1wei4, fəŋ1, wei4, NA, NA, f, i, fan2, wei4, NA, NA, NA, 6, 3, 3, NA, NA, 1, 4, NA, NA, 6.1231, 680.2173, 394.3062, NA, NA, 826, 137744, 79847, NA, NA, 3.0448, 284.2094, 252.2009, NA, NA, 102, 13301, 11803, NA, NA, 7.14, 799.2486, 437.0199, NA, NA, 724, 124443, 68044, NA, NA, 6.1231, 1619.8221, 6782.3647, NA, NA, 252, 64, NA, NA, 738.8288, [illegible]
纪年, 纪, 年, NA, NA, 2, LR, UD, NA, NA, PicPho, PicPho, NA, NA, ji4nian2, ji4, nian2, NA, NA, tɕi4njɛn2, tɕi4, njɛn2, NA, NA, tɕ, n, ji3, qian1, NA, NA, NA, 6, 2, 4, NA, NA, 4, 2, NA, NA, 0.3039, 125.6049, 4967.0963, NA, NA, 41, 25435, 1005837, NA, NA, 0.0597, 147.7778, 1171.453, NA, NA, 2, 6916, 54824, NA, NA, 0.3846, 118.9403, 6107.9833, NA, NA, 39, 18519, 951013, NA, NA, 0.3039, 3799.7999, 6130.2891, NA, NA, 39, 180, NA, NA, 165.3521, [illegible]
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停放, 停, 放, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, ting2fang4, ting2, fang4, NA, NA, tʰiŋ2faŋ4, tʰiŋ2, faŋ4, NA, NA, tʰ, ŋ, ting2, fang1, NA, NA, NA, 6, 3, 3, NA, NA, 2, 4, NA, NA, 1.0082, 272.7951, 1139.7531, NA, NA, 136, 55241, 230800, NA, NA, 0.5373, 418.0342, 994.188, NA, NA, 18, 19564, 46528, NA, NA, 1.1637, 229.1394, 1183.5067, NA, NA, 118, 35677, 184272, NA, NA, 1.0082, 548.8881, 1530.2965, NA, NA, 42, 109, NA, NA, 184.69, [illegible]
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索取, 索, 取, NA, NA, 2, UD, LR, NA, NA, PicSyn, PicSyn, NA, NA, suo3qu3, suo3, qu3, NA, NA, swo3tɕʰy3, swo3, tɕʰy3, NA, NA, s, y, NA, NA, NA, NA, 5, 3, 2, NA, NA, 3, 3, NA, NA, 3.2468, 114.5333, 952.6617, NA, NA, 438, 23193, 192914, NA, NA, 1.6716, 184.4444, 265.1496, NA, NA, 56, 8632, 12409, NA, NA,
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朝, 朝, NA, NA, NA, 1, LR, NA, NA, NA, PicSyn, NA, NA, NA, zhao1, zhao1, NA, NA, NA, tʂau1, tʂau1, NA, NA, NA, tʂ, u, NA, NA, NA, NA, 3, 3, NA, NA, NA, 1, NA, NA, NA, 42.6686, 95.5901, NA, NA, NA, 5756, 19357, NA, NA, NA, 72.7164, 77.5427, NA, NA, NA, 2436, 3629, NA, NA, NA, 32.7416, 101.0148, NA,
穷苦, 穷, 苦, NA, NA, 2, UD, UD, NA, NA, Other, PicPho, NA, NA, qiong2ku3, qiong2, ku3, NA, NA, tɕʰjuŋ2kʰu3, tɕʰjuŋ2, kʰu3, NA, NA, tɕʰ, u, NA, gu3, NA, NA, 6, 4, 2, NA, NA, 2, 3, NA, NA, 0.5782, 57.3383, 367.7679, NA, NA, 78, 11611, 74473, NA, NA, 0.8657, 30.5342, 161.6026, NA, NA, 29, 1429, 7563, NA, NA, 0.4
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退守, 退, 守, NA, NA, 2, LRB, UD, NA, NA, PicSyn, PicSyn, NA, NA, tui4shou3, tui4, shou3, NA, NA, tʰwei4ʂou3, tʰwei4, ʂou3, NA, NA, tʰ, u, NA, NA, NA, NA, 7, 4, 3, NA, NA, 4, 3, NA, NA, 0.0741, 128.4, 126.8247, NA, NA, 10, 26001, 25682, NA, NA, 0.0597, 173.5256, 133.2265, NA, NA, 2, 8121, 6235, NA, NA, 0.0789,
高超, 高, 超, NA, NA, 2, UD, LR, NA, NA, Picto, PicPho, NA, NA, gao1chao1, gao1, chao1, NA, NA, kau1tʂʰau1, kau1, tʂʰau1, NA, NA, k, u, NA, zhao4, NA, NA, 6, 3, 3, NA, NA, 1, 1, NA, NA, 1.8162, 983.9704, 1189.7877, NA, NA, 245, 199254, 240932, NA, NA, 2.6567, 855.641, 247.6282, NA, NA, 89, 40044, 11589, NA,
浓厚, 浓, 厚, NA, NA, 2, LR, HCI, NA, NA, PicPho, PicSyn, NA, NA, nong2hou4, nong2, hou4, NA, NA, nʊŋ2xou4, nʊŋ2, xou4, NA, NA, n, u, nong2, NA, NA, NA, 6, 3, 3, NA, NA, 2, 4, NA, NA, 3.0912, 57.0716, 98.0889, NA, NA, 417, 11557, 19863, NA, NA, 0.5672, 18.0556, 21.7949, NA, NA, 19, 845, 1020, NA, NA, 3.925
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警官, 警, 官, NA, NA, 2, UD, UD, NA, NA, PicPho, PicSyn, NA, NA, jing3guan1, jing3, guan1, NA, NA, tɕiŋ3kwan1, tɕiŋ3, kwan1, NA, NA, tɕ, n, jing4, NA, NA, NA, 7, 3, 4, NA, NA, 3, 1, NA, NA, 22.9874, 260.0395, 220.0494, NA, NA, 3101, 52658, 44560, NA, NA, 88.8955, 695.7479, 457.3718, NA, NA, 2978, 32561, 21405
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螺, 螺, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, luo2, luo2, NA, NA, NA, lwo2, lwo2, NA, NA, NA, l, o, lei4, NA, NA, NA, 3, 3, NA, NA, NA, 2, NA, NA, NA, 0.1927, 14.5136, NA, NA, NA, 26, 2939, NA, NA, NA, 0.5075, 11.5385, NA, NA, NA, 17, 540, NA, NA, NA, 0.0888, 15.4078, NA, NA, NA, 9, 2399,

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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水坝, 水, 坝, NA, NA, 2, SG, LR, NA, NA, Picto, Other, NA, NA, shui3ba4, shui3, ba4, NA, NA, ʂwei3pa4, ʂwei3, pa4, NA, NA, ʂ, a, NA, NA, NA, NA, 6, 4, 2, NA, NA, 3, 4, NA, NA, 0.556, 850.958, 4.6074, NA, NA, 75, 172319, 933, NA, NA, 1.791, 465.6624, 3.953, NA, NA, 60, 21793, 185, NA, NA, 0.1479, 966.7694, 4.8041 [illegible]
礼数, 礼, 数, NA, NA, 2, LR, LR, NA, NA, PicSyn, PicPho, NA, NA, li3shu4, li3, shu4, NA, NA, li3ʂu4, li3, ʂu4, NA, NA, l, u, NA, lou2, NA, NA, 4, 2, 2, NA, NA, 3, 4, NA, NA, 0.3855, 383.5556, 411.0074, NA, NA, 52, 77670, 83229, NA, NA, 0.3881, 315.5769, 315.2564, NA, NA, 13, 14769, 14754, NA, NA, 0.3846, 403.9884 [illegible]
哗然, 哗, 然, NA, NA, 2, LR, UD, NA, NA, PicPho, PicPho, NA, NA, hua2ran2, hua2, ran2, NA, NA, xwa2ɻan2, xwa2, ɻan2, NA, NA, x, n, hua2, ran2, NA, NA, 6, 3, 3, NA, NA, 2, 2, NA, NA, 0.6375, 11.0617, 1939.9062, NA, NA, 86, 2240, 392831, NA, NA, 0.1791, 2.8846, 1955.4274, NA, NA, 6, 135, 91514, NA, NA, 0.789, 13.5196 [illegible]
相像, 相, 像, NA, NA, 2, LR, LR, NA, NA, PicSyn, PicPho, NA, NA, xiang1xiang4, xiang1, xiang4, NA, NA, ɕjaŋ1ɕjaŋ4, ɕjaŋ1, ɕjaŋ4, NA, NA, ɕ, ŋ, NA, xiang4, NA, NA, 8, 4, 4, NA, NA, 1, 4, NA, NA, 1.4085, 978.4642, 873.1012, NA, NA, 190, 198139, 176803, NA, NA, 2.3284, 1022.5641, 1521.0684, NA, NA, 78, 47856, 71186 [illegible]
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徽记, 徽, 记, NA, NA, 2, LR, LR, NA, NA, Other, PicPho, NA, NA, hui1ji4, hui1, ji4, NA, NA, xwei1tɕi4, xwei1, tɕi4, NA, NA, x, i, NA, ji3, NA, NA, 6, 4, 2, NA, NA, 1, 4, NA, NA, 0.0815, 29.2691, 1079.4963, NA, NA, 11, 5927, 218598, NA, NA, 0.0597, 13.8889, 833.5043, NA, NA, 2, 650, 39008, NA, NA, 0.0888, 33.8921 [illegible]
专机, 专, 机, NA, NA, 2, SG, LR, NA, NA, PicSyn, PicPho, NA, NA, zhuan1ji1, zhuan1, ji1, NA, NA, tʂwan1tɕi1, tʂwan1, tɕi1, NA, NA, tʂ, i, NA, ji1, NA, NA, 6, 4, 2, NA, NA, 1, 1, NA, NA, 0.6523, 252.321, 1506.3259, NA, NA, 88, 51095, 305031, NA, NA, 0.9254, 164.7863, 1044.9145 [illegible]
[illegible]

雷动, 雷, 动, NA, NA, 2, UD, LR, NA, NA, PicSyn, Other, NA, NA, lei2dong4, lei2, dong4, NA, NA, lei2tuŋ4, lei2, tuŋ4, NA, NA, l, ŋ, NA, NA, NA, NA, 6, 3, 3, NA, NA, 2, 4, NA, NA, 0.1112, 137.3926, 1375.5852, NA, NA, 15, 27822, 278556, NA, NA, 0.1493, 210.4274, 1052.8632, NA, NA, 5, 9848, 49274, NA, NA, 0.0986, 115.4399, 1472.5883, NA, NA, 10, 17974, 229282, NA, NA, 0.1112, 87.2721, 2148.6509, NA, NA, 45, 236, NA, NA, 26.5011, 1837.7094, NA, NA, 19, 13, 6, NA, NA, 4322, 3383, NA, NA, 1645, 3382, NA, NA, 2739, 2507.85, NA, NA, 1, 10, 16, NA, NA, 2.3, 1.45, 1.2, NA, NA, 雷, 力, NA, NA, 2141.5901, 6800.9383, NA, NA, 24, 25, NA, NA, 8, 2, NA
收据, 收, 据, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, shou1ju4, shou1, ju4, NA, NA, ʂou1tɕy4, ʂou1, tɕy4, NA, NA, ʂ, y, jiu1, ju1, NA, NA, 5, 3, 2, NA, NA, 1, 4, NA, NA, 2.8836, 700.8346, 199.3531, NA, NA, 389, 141919, 40369, NA, NA, 9.6418, 421.1966, 272.0085, NA, NA, 323, 19712, 12730, NA, NA, 0.650
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摇, 摇, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, yao2, yao2, NA, NA, NA, jau2, jau2, NA, NA, NA, j, u, yao2, NA, NA, NA, 3, 3, NA, NA, NA, 2, NA, NA, NA, 27.6205, 68.9531, NA, NA, NA, 3726, 13963, NA, NA, NA, 20.6866, 76.688, NA, NA, NA, 693, 3589, NA, NA, NA, 29.9112, 66.6281, NA, NA, NA,
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

谏, 谏, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, jian4, jian4, NA, NA, NA, tɕjan4, tɕjan4, NA, NA, NA, tɕ, n, jian3, NA, NA, NA, 4, 4, NA, NA, NA, 4, NA, NA, NA, 0.0593, 0.2765, NA, NA, NA, 8, 56, NA, NA, NA, 0.0299, 0.0214, NA, NA, NA, 1, 1, NA, NA, NA, 0.069, 0.3532, NA, NA, NA, 7, 55, NA, NA,
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低语, 低, 语, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, di1yu3, di1, yu3, NA, NA, ti1y3, ti1, y3, NA, NA, t, y, di3, yu3, NA, NA, 3, 2, 1, NA, NA, 1, 3, NA, NA, 0.5634, 195.7284, 510.3506, NA, NA, 76, 39635, 103346, NA, NA, 1.4328, 112.1581, 231.047, NA, NA, 48, 5249, 10813, NA, NA, 0.2761, 220.8478, 594.3031, NA, NA, 28, 34386, 92533, NA, NA, 0.5634, 535.4633, 955.2557, NA, NA, 57, 126, NA, NA, 152.2387, 480.1483, NA, NA, 16,
海沟, 海, 沟, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, hai3gou1, hai3, gou1, NA, NA, xai3kou1, xai3, kou1, NA, NA, x, u, mei3, gou1, NA, NA, 6, 3, 3, NA, NA, 3, 1, NA, NA, 0.2446, 619.8173, 39.9753, NA, NA, 33, 125513, 8095, NA, NA, 0.3881, 350.5128, 19.8077, NA, NA, 13, 16404, 927, NA, NA, 0.1972, 700.7643, 46.0373, NA, NA, 20, 109109, 7168, NA, NA, 0.2446, 684.8851, 89.103, NA, NA, 188, 18, NA, NA, 615.871, 42.0237, NA,
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淡水, 淡, 水, NA, NA, 2, LR, SG, NA, NA, PicPho, Picto, NA, NA, dan4shui3, dan4, shui3, NA, NA, tan4ʂwei3, tan4, ʂwei3, NA, NA, t, i, yan2, NA, NA, 7, 4, 3, NA, NA, 4, 3, NA, NA, 1.5345, 160.9926, 850.958, NA, NA, 207, 32601, 172319, NA, NA, 1.0448, 22.0299, 465.6624, NA, NA, 35, 1031, 21793, NA, NA, 1.6963, 202.7617, 966.7694, NA, NA, 172, 31570, 150526, NA, NA, 1.5345, 2860.2446, 892.9429, NA, NA, 31, 393, NA, NA, 131.2602, 600.2
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Mr. [illegible] to the Chair. Mr. [illegible] Mr. [illegible] Mr. [illegible]

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0x604 0x605 0x606 0x607 0x608 0x609 0x60a 0x60b 0x60c 0x60d 0x60e 0x60f 0x610 0x611 0x612 0x613 0x614 0x615 0x616 0x617 0x618 0x619 0x61a 0x61b 0x61c 0x61d 0x61e 0x61f 0x620 0x621 0x622 0x623 0x624 0x625 0x626 0x627 0x628 0x629 0x62a 0x62b 0x62c 0x62d 0x62e 0x62f 0x630 0x631 0x632 0x633 0x634 0x635 0x636 0x637 0x638 0x639 0x63a 0x63b 0x63c 0x63d 0x63e 0x63f 0x640 0x641 0x642 0x643 0x644 0x645 0x646 0x647 0x648 0x649 0x64a 0x64b 0x64c 0x64d 0x64e 0x64f 0x650 0x651 0x652 0x653 0x654 0x655 0x656 0x657 0x658 0x659 0x65a 0x65b 0x65c 0x65d 0x65e 0x65f 0x660 0x661 0x662 0x663 0x664 0x665 0x666 0x667 0x668 0x669 0x66a 0x66b 0x66c 0x66d 0x66e 0x66f 0x670 0x671 0x672 0x673 0x674 0x675 0x676 0x677 0x678 0x679 0x67a 0x67b 0x67c 0x67d 0x67e 0x67f 0x680 0x681 0x682 0x683 0x684 0x685 0x686 0x687 0x688 0x689 0x68a 0x68b 0x68c 0x68d 0x68e 0x68f 0x690 0x691 0x692 0x693 0x694 0x695 0x696 0x697 0x698 0x699 0x69a 0x69b 0x69c 0x69d 0x69e 0x69f 0x6a0 0x6a1 0x6a2 0x6a3 0x6a4 0x6a5 0x6a6 0x6a7 0x6a8 0x6a9 0x6aa 0x6ab 0x6ac 0x6ad 0x6ae 0x6af 0x6b0 0x6b1 0x6b2 0x6b3 0x6b4 0x6b5 0x6b6 0x6b7 0x6b8 0x6b9 0x6ba 0x6bb 0x6bc 0x6bd 0x6be 0x6bf 0x6c0 0x6c1 0x6c2 0x6c3 0x6c4 0x6c5 0x6c6 0x6c7 0x6c8 0x6c9 0x6ca 0x6cb 0x6cc 0x6cd 0x6ce 0x6cf 0x6d0 0x6d1 0x6d2 0x6d3 0x6d4 0x6d5 0x6d6 0x6d7 0x6d8 0x6d9 0x6da 0x6db 0x6dc 0x6dd 0x6de 0x6df 0x6e0 0x6e1 0x6e2 0x6e3 0x6e4 0x6e5 0x6e6 0x6e7 0x6e8 0x6e9 0x6ea 0x6eb 0x6ec 0x6ed 0x6ee 0x6ef 0x6f0 0x6f1 0x6f2 0x6f3 0x6f4 0x6f5 0x6f6 0x6f7 0x6f8 0x6f9 0x6fa 0x6fb 0x6fc 0x6fd 0x6fe 0x6ff 0x700 0x701 0x702 0x703 0x704 0x705 0x706 0x707 0x708 0x709 0x70a 0x70b 0x70c 0x70d 0x70e 0x70f 0x710 0x711 0x712 0x713 0x714 0x715 0x716 0x717 0x718 0x719 0x71a 0x71b 0x71c 0x71d 0x71e 0x71f 0x720 0x721 0x722 0x723 0x724 0x725 0x726 0x727 0x728 0x729 0x72a 0x72b 0x72c 0x72d 0x72e 0x72f 0x730 0x731 0x732 0x733 0x734 0x735 0x736 0x737 0x738 0x739 0x73a 0x73b 0x73c 0x73d 0x73e 0x73f 0x740 0x741 0x742 0x743 0x744 0x745 0x746 0x747 0x748 0x749 0x74a 0x74b 0x74c 0x74d 0x74e 0x74f 0x750 0x751 0x752 0x753 0x754 0x755 0x756 0x757 0x758 0x759 0x75a 0x75b 0x75c 0x75d 0x75e 0x75f 0x760 0x761 0x762 0x763 0x764 0x765 0x766 0x767 0x768 0x769 0x76a 0x76b 0x76c 0x76d 0x76e 0x76f 0x770 0x771 0x772 0x773 0x774 0x775 0x776 0x777 0x778 0x779 0x77a 0x77b 0x77c 0x77d 0x77e 0x77f 0x780 0x781 0x782 0x783 0x784 0x785 0x786 0x787 0x788 0x789 0x78a 0x78b 0x78c 0x78d 0x78e 0x78f 0x790 0x791 0x792 0x793 0x794 0x795 0x796 0x797 0x798 0x799 0x79a 0x79b 0x79c 0x79d 0x79e 0x79f 0x7a0 0x7a1 0x7a2 0x7a3 0x7a4 0x7a5 0x7a6 0x7a7 0x7a8 0x7a9 0x7aa 0x7ab 0x7ac 0x7ad 0x7ae 0x7af 0x7b0 0x7b1 0x7b2 0x7b3 0x7b4 0x7b5 0x7b6 0x7b7 0x7b8 0x7b9 0x7ba 0x7bb 0x7bc 0x7bd 0x7be 0x7bf 0x7c0 0x7c1 0x7c2 0x7c3 0x7c4 0x7c5 0x7c6 0x7c7 0x7c8 0x7c9 0x7ca 0x7cb 0x7cc 0x7cd 0x7ce 0x7cf 0x7d0 0x7d1 0x7d2 0x7d3 0x7d4 0x7d5 0x7d6 0x7d7 0x7d8 0x7d9 0x7da 0x7db 0x7dc 0x7dd 0x7de 0x7df 0x7e0 0x7e1 0x7e2 0x7e3 0x7e4 0x7e5 0x7e6 0x7e7 0x7e8 0x7e9 0x7ea 0x7eb 0x7ec 0x7ed 0x7ee 0x7ef 0x7f0 0x7f1 0x7f2 0x7f3 0x7f4 0x7f5 0x7f6 0x7f7 0x7f8 0x7f9 0x7fa 0x7fb 0x7fc 0x7fd 0x7fe 0x7ff 0x800 0x801 0x802 0x803 0x804 0x805 0x806 0x807 0x808 0x809 0x80a 0x80b 0x80c 0x80d 0x80e 0x80f 0x810 0x811 0x812 0x813 0x814 0x815 0x816 0x817 0x818 0x819 0x81a 0x81b 0x81c 0x81d 0x81e 0x81f 0x820 0x821 0x822 0x823 0x824 0x825 0x826 0x827 0x828 0x829 0x82a 0x82b 0x82c 0x82d 0x82e 0x82f 0x830 0x831 0x832 0x833 0x834 0x835 0x836 0x837 0x838 0x839 0x83a 0x83b 0x83c 0x83d 0x83e 0x83f 0x840 0x841 0x842 0x843 0x844 0x845 0x846 0x847 0x848 0x849 0x84a 0x84b 0x84c 0x84d 0x84e 0x84f 0x850 0x851 0x852 0x853 0x854 0x855 0x856 0x857 0x858 0x859 0x85a 0x85b 0x85c 0x85d 0x85e 0x85f 0x860 0x861 0x862 0x863 0x864 0x865 0x866 0x867 0x868 0x869 0x86a 0x86b 0x86c 0x86d 0x86e 0x86f 0x870 0x871 0x872 0x873 0x874 0x875 0x876 0x877 0x878 0x879 0x87a 0x87b 0x87c 0x87d 0x87e 0x87f 0x880 0x881 0x882 0x883 0x884 0x885 0x886 0x887 0x888 0x889 0x88a 0x88b 0x88c 0x88d 0x88e 0x88f 0x890 0x891 0x892 0x893 0x894 0x895 0x896 0x897 0x898 0x899 0x89a 0x89b 0x89c 0x89d 0x89e 0x89f 0x8a0 0x8a1 0x8a2 0x8a3 0x8a4 0x8a5 0x8a6 0x8a7 0x8a8 0x8a9 0x8aa 0x8ab 0x8ac 0x8ad 0x8ae 0x8af 0x8b0 0x8b1 0x8b2 0x8b3 0x8b4 0x8b5 0x8b6 0x8b7 0x8b8 0x8b9 0x8ba 0x8bb 0x8bc 0x8bd 0x8be 0x8bf 0x8c0 0x8c1 0x8c2 0x8c3 0x8c4 0x8c5 0x8c6 0x8c7 0x8c8 0x8c9 0x8ca 0x8cb 0x8cc 0x8cd 0x8ce 0x8cf 0x8d0 0x8d1 0x8d2 0x8d3 0x8d4 0x8d5 0x8d6 0x8d7 0x8d8 0x8d9 0x8da 0x8db 0x8dc 0x8dd 0x8de 0x8df 0x8e0 0x8e1 0x8e2 0x8e3 0x8e4 0x8e5 0x8e6 0x8e7 0x8e8 0x8e9 0x8ea 0x8eb 0x8ec 0x8ed 0x8ee 0x8ef 0x8f0 0x8f1 0x8f2 0x8f3 0x8f4 0x8f5 0x8f6 0x8f7 0x8f8 0x8f9 0x8fa 0x8fb 0x8fc 0x8fd 0x8fe 0x8ff 0x900 0x901 0x902 0x903 0x904 0x905 0x906 0x907 0x908 0x909 0x90a 0x90b 0x90c 0x90d 0x90e 0x90f 0x910 0x911 0x912 0x913 0x914 0x915 0x916 0x917 0x918 0x919 0x91a 0x91b 0x91c 0x91d 0x91e 0x91f 0x920 0x921 0x922 0x923 0x924 0x925 0x926 0x927 0x928 0x929 0x92a 0x92b 0x92c 0x92d 0x92e 0x92f 0x930 0x931 0x932 0x933 0x934 0x935 0x936 0x937 0x938 0x939 0x93a 0x93b 0x93c 0x93d 0x93e 0x93f 0x940 0x941 0x942 0x943 0x944 0x945 0x946 0x947 0x948 0x949 0x94a 0x94b 0x94c 0x94d 0x94e 0x94f 0x950 0x951 0x952 0x953 0x954 0x955 0x956 0x957 0x958 0x959 0x95a 0x95b 0x95c 0x95d 0x95e 0x95f 0x960 0x961 0x962 0x963 0x964 0x965 0x966 0x967 0x968 0x969 0x96a 0x96b 0x96c 0x96d 0x96e 0x96f 0x970 0x971 0x972 0x973 0x974 0x975 0x976 0x977 0x978 0x979 0x97a 0x97b 0x97c 0x97d 0x97e 0x97f 0x980 0x981 0x982 0x983 0x984 0x985 0x986 0x987 0x988 0x989 0x98a 0x98b 0x98c 0x98d 0x98e 0x98f 0x990 0x991 0x992 0x993 0x994 0x995 0x996 0x997 0x998 0x999 0x99a 0x99b 0x99c 0x99d 0x99e 0x99f 0x9a0 0x9a1 0x9a2 0x9a3 0x9a4 0x9a5 0x9a6 0x9a7 0x9a8 0x9a9 0x9aa 0x9ab 0x9ac 0x9ad 0x9ae 0x9af 0x9b0 0x9b1 0x9b2 0x9b3 0x9b4 0x9b5 0x9b6 0x9b7 0x9b8 0x9b9 0x9ba 0x9bb 0x9bc 0x9bd 0x9be 0x9bf 0x9c0 0x9c1 0x9c2 0x9c3 0x9c4 0x9c5 0x9c6 0x9c7 0x9c8 0x9c9 0x9ca 0x9cb 0x9cc 0x9cd 0x9ce 0x9cf 0x9d0 0x9d1 0x9d2 0x9d3 0x9d4 0x9d5 0x9d6 0x9d7 0x9d8 0x9d9 0x9da 0x9db 0x9dc 0x9dd 0x9de 0x9df 0x9e0 0x9e1 0x9e2 0x9e3 0x9e4 0x9e5 0x9e6 0x9e7 0x9e8 0x9e9 0x9ea 0x9eb 0x9ec 0x9ed 0x9ee 0x9ef 0x9f0 0x9f1 0x9f2 0x9f3 0x9f4 0x9f5 0x9f6 0x9f7 0x9f8 0x9f9 0x9fa 0x9fb 0x9fc 0x9fd 0x9fe 0x9ff 0xa00 0xa01 0xa02 0xa03 0xa04 0xa05 0xa06 0xa07 0xa08 0xa09 0xa0a 0xa0b 0xa0c 0xa0d 0xa0e 0xa0f 0xa10 0xa11 0xa12 0xa13 0xa14 0xa15 0xa16 0xa17 0xa18 0xa19 0xa1a 0xa1b 0xa1c 0xa1d 0xa1e 0xa1f 0xa20 0xa21 0xa22 0xa23 0xa24 0xa25 0xa26 0xa27 0xa28 0xa29 0xa2a 0xa2b 0xa2c 0xa2d 0xa2e 0xa2f 0xa30 0xa31 0xa32 0xa33 0xa34 0xa35 0xa36 0xa37 0xa38 0xa39 0xa3a 0xa3b 0xa3c 0xa3d 0xa3e 0xa3f 0xa40 0xa41 0xa42 0xa43 0xa44 0xa45 0xa46 0xa47 0xa48 0xa49 0xa4a 0xa4b 0xa4c 0xa4d 0xa4e 0xa4f 0xa50 0xa51 0xa52 0xa53 0xa54 0xa55 0xa56 0xa57 0xa58 0xa59 0xa5a 0xa5b 0xa5c 0xa5d 0xa5e 0xa5f 0xa60 0xa61 0xa62 0xa63 0xa64 0xa65 0xa66 0xa67 0xa68 0xa69 0xa6a 0xa6b 0xa6c 0xa6d 0xa6e 0xa6f 0xa70 0xa71 0xa72 0xa73 0xa74 0xa75 0xa76 0xa77 0xa78 0xa79 0xa7a 0xa7b 0xa7c 0xa7d 0xa7e 0xa7f 0xa80 0xa81 0xa82 0xa83 0xa84 0xa85 0xa86 0xa87 0xa88 0xa89 0xa8a 0xa8b 0xa8c 0xa8d 0xa8e 0xa8f 0xa90 0xa91 0xa92 0xa93 0xa94 0xa95 0xa96 0xa97 0xa98 0xa99 0xa9a 0xa9b 0xa9c 0xa9d 0xa9e 0xa9f 0xaa0 0xaa1 0xaa2 0xaa3 0xaa4 0xaa5 0xaa6 0xaa7 0xaa8 0xaa9 0xaaa 0xaab 0xaac 0xaad 0xaae 0xaaf 0xab0 0xab1 0xab2 0xab3 0xab4 0xab5 0xab6 0xab7 0xab8 0xab9 0xaba 0xabb 0xabc 0xabd 0xabe 0xabf 0xac0 0xac1 0xac2 0xac3 0xac4 0xac5 0xac6 0xac7 0xac8 0xac9 0xaca 0xacb 0xacc 0xacd 0xace 0xacf 0xad0 0xad1 0xad2 0xad3 0xad4 0xad5 0xad6 0xad7 0xad8 0xad9 0xada 0xadb 0xadc 0xadd 0xade 0xadf 0xae0 0xae1 0xae2 0xae3 0xae4 0xae5 0xae6 0xae7 0xae8 0xae9 0xaea 0xaeb 0xaec 0xaed 0xaee 0xaef 0xaf0 0xaf1 0xaf2 0xaf3 0xaf4 0xaf5 0xaf6 0xaf7 0xaf8 0xaf9 0xafa 0xafb 0xafc 0xafd 0xafe 0xaff 0xb00 0xb01 0xb02 0xb03 0xb04 0xb05 0xb06 0xb07 0xb08 0xb09 0xb0a 0xb0b 0xb0c 0xb0d 0xb0e 0xb0f 0xb10 0xb11 0xb12 0xb13 0xb14 0xb15 0xb16 0xb17 0xb18 0xb19 0xb1a 0xb1b 0xb1c 0xb1d 0xb1e 0xb1f 0xb20 0xb21 0xb22 0xb23 0xb24 0xb25 0xb26 0xb27 0xb28 0xb29 0xb2a 0xb2b 0xb2c 0xb2d 0xb2e 0xb2f 0xb30 0xb31 0xb32 0xb33 0xb34 0xb35 0xb36 0xb37 0xb38 0xb39 0xb3a 0xb3b 0xb3c 0xb3d 0xb3e 0xb3f 0xb40 0xb41 0xb42 0xb43 0xb44 0xb45 0xb46 0xb47 0xb48 0xb49 0xb4a 0xb4b 0xb4c 0xb4d 0xb4e 0xb4f 0xb50 0xb51 0xb52 0xb53 0xb54 0xb55 0xb56 0xb57 0xb58 0xb59 0xb5a 0xb5b 0xb5c 0xb5d 0xb5e 0xb5f 0xb60 0xb61 0xb62 0xb63 0xb64 0xb65 0xb66 0xb67 0xb68 0xb69 0xb6a 0xb6b 0xb6c 0xb6d 0xb6e 0xb6f 0xb70 0xb71 0xb72 0xb73 0xb74 0xb75 0xb76 0xb77 0xb78 0xb79 0xb7a 0xb7b 0xb7c 0xb7d 0xb7e 0xb7f 0xb80 0xb81 0xb82 0xb83 0xb84 0xb85 0xb86 0xb87 0xb88 0xb89 0xb8a 0xb8b 0xb8c 0xb8d 0xb8e 0xb8f 0xb90 0xb91 0xb92 0xb93 0xb94 0xb95 0xb96 0xb97 0xb98 0xb99 0xb9a 0xb9b 0xb9c 0xb9d 0xb9e 0xb9f 0xba0 0xba1 0xba2 0xba3 0xba4 0xba5 0xba6 0xba7 0xba8 0xba9 0xbaa 0xbab 0xbac 0xbad 0xbae 0xbaf 0xbb0 0xbb1 0xbb2 0xbb3 0xbb4 0xbb5 0xbb6 0xbb7 0xbb8 0xbb9 0xbba 0xbbb 0xbbc 0xbbd 0xbbe 0xbbf 0xbc0 0xbc1 0xbc2 0xbc3 0xbc4 0xbc5 0xbc6 0xbc7 0xbc8 0xbc9 0xbca 0xbcb 0xbcc 0xbcd 0xbce 0xbcf 0xbd0 0xbd1 0xbd2 0xbd3 0xbd4 0xbd5 0xbd6 0xbd7 0xbd8 0xbd9 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[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]

竿子, 竿, 子, NA, NA, 2, UD, SG, NA, NA, PicPho, Picto, NA, NA, gan1zi5, gan1, zi5, NA, NA, kan1tsɿ5, kan1, tsɿ5, NA, NA, k, ɹ, gan1, NA, NA, NA, 5, 3, 2, NA, NA, 1, 5, NA, NA, 0.3781, 2.6123, 3283.4173, NA, NA, 51, 529, 664892, NA, NA, 0.5672, 3.1838, 3796.859, NA, NA, 19, 149, 177693, NA, NA, 0.3156, 2.4406, 3129.088, NA, NA, 32, 380, 487199, NA, NA, 1.9422, 393.8473, 4100.7265, NA, NA, 9, 699, NA, NA, 2.6093, 4268.5619, NA, NA, 12, [illegible]
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硬席, 硬, 席, NA, NA, 2, LR, UD, NA, NA, PicPho, PicSyn, NA, NA, ying4xi2, ying4, xi2, NA, NA, iŋ4ɕi2, iŋ4, ɕi2, NA, NA, i, i, geng4, NA, NA, NA, 4, 2, 2, NA, NA, 4, 2, NA, NA, 0.0222, 73.4025, 50.1333, NA, NA, 3, 14864, 10152, NA, NA, 0.0597, 69.4017, 66.3462, NA, NA, 2, 3248, 3105, NA, NA, 0.0099, 74.605, 45.26
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耳膜, 耳, 膜, NA, NA, 2, SG, LR, NA, NA, Picto, PicPho, NA, NA, er3mo2, er3, mo2, NA, NA, ər3mwo2, ər3, mwo2, NA, NA, a, o, NA, mo4, NA, NA, 6, 6, 2, NA, NA, 2, 4, NA, NA, 0.7561, 114.8889, 40.7901, NA, NA, 102, 23265, 8260, NA, NA, 0.2687, 84.7009, 14.1453, NA, NA, 9, 3964, 662, NA, NA, 0.9172, 123.9627, 48.7799, NA, NA, 93, 19301, 7598, NA, NA, 0.7561, 237.9911, 784.2031, NA, NA, 63, 32, NA, NA, 115.5893, 151.5493, NA, NA, 21, 6, 15, NA, NA, 3280, 4515, NA, NA, 1269, 2974, NA, NA, 2503.65, 2497.5
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蚊帐, 蚊, 帐, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, wen2zhang4, wen2, zhang4, NA, NA, wən2tʂaŋ4, wən2, tʂaŋ4, NA, NA, w, ŋ, wen2, zhang3, NA, NA, 6, 3, 3, NA, NA, 2, 4, NA, NA, 1.1268, 25.4765, 28.5333, NA, NA, 152, 5159, 5778, NA, NA, 0.9851, 4.1026, 52.7137, NA, NA, 33, 192, 2467, NA, NA, 1.1736, 31.9011, 21.2653, NA, NA, 119, 4967, 3311, NA, NA, 1.1268, 1105.7524, 316.8421, NA, NA, 4, 7, NA, NA, 15.3818, 6.2787, NA, NA, 17, 10, 7, NA, NA, 4002, 3851, NA, NA, 3609, 3076, NA, NA, 2364, 2686.05
上房, 上, 房, NA, NA, 2, SG, HCI, NA, NA, PicLog, PicPho, NA, NA, shang4fang2, shang4, fang2, NA, NA, ʂaŋ4faŋ2, ʂaŋ4, faŋ2, NA, NA, ʂ, ŋ, NA, fang1, NA, NA, 6, 3, 3, NA, NA, 4, 2, NA, NA, 0.2224, 4716.721, 457.1852, NA, NA, 30, 955136, 92580, NA, NA, 0.2687, 5052.3718, 539.4444, NA, NA, 9, 236451, 25246, NA, NA, 0.2071, 4615.8317, 432.4599, NA, NA, 21, 718685, 67334, NA, NA, 0.2224, 6415.1149, 827.9244, NA, NA, 285, 99, NA, NA, 3394.0252, 560.4522, NA, NA, 11, 3, 8, NA, NA, 1854, 3573, NA, NA, 840, 2670, NA, NA, 1981.7, 2490.45

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石膏, 石, 膏, NA, NA, 2, SG, UD, NA, NA, Picto, PicPho, NA, NA, shi2gao1, shi2, gao1, NA, NA, ʂɿ2kau1, ʂɿ2, kau1, NA, NA, ʂ, u, NA, gao1, NA, NA, 5, 2, 3, NA, NA, 2, 1, NA, NA, 1.3047, 206.1531, 25.9506, NA, NA, 176, 41746, 5255, NA, NA, 2.6269, 147.3504, 15.6838, NA, NA, 88, 6896, 734, NA, NA, 0.8679, 223.8279 [illegible]
简捷, 简, 捷, NA, NA, 2, UD, LR, NA, NA, PicPho, PicPho, NA, NA, jian3jie2, jian3, jie2, NA, NA, tɕjan3tɕje2, tɕjan3, tɕje2, NA, NA, tɕ, ɛ, NA, jian1, jie2, NA, NA, 7, 4, 3, NA, NA, 3, 2, NA, NA, 0.0297, 249.8173, 99.1062, NA, NA, 4, 50588, 20069, NA, NA, 0.0299, 255.406, 17.094, NA, NA, 1, 11953, 800, NA, NA, 0.0296, 248. [illegible]
承租, 承, 租, NA, NA, 2, SG, LR, NA, NA, PicSyn, PicPho, NA, NA, cheng2zu1, cheng2, zu1, NA, NA, tʂʰəŋ2tsu1, tʂʰəŋ2, tsu1, NA, NA, tʂʰ, u, NA, ju1, NA, NA, 5, 3, 2, NA, NA, 2, 1, NA, NA, 0.0815, 155.6099, 71.3432, NA, NA, 11, 31511, 14447, NA, NA, 0.0896, 177.8205, 89.4658, NA, NA, 3, 8322, 4187, NA, NA, 0.0789, [illegible]
大门, 大, 门, NA, NA, 2, SG, SG, NA, NA, Picto, Picto, NA, NA, da4men2, da4, men2, NA, NA, ta4mən2, ta4, mən2, NA, NA, t, n, NA, NA, NA, NA, 5, 2, 3, NA, NA, 4, 2, NA, NA, 27.6723, 5363.1802, 671.4716, NA, NA, 3733, 1086044, 135973, NA, NA, 18.0299, 2888.0128, 553.5897, NA, NA, 604, 135159, 25908, NA, NA, [illegible]
踏足, 踏, 足, NA, NA, 2, LR, UD, NA, NA, PicPho, PicSyn, NA, NA, ta4zu2, ta4, zu2, NA, NA, tʰa4tsu2, tʰa4, tsu2, NA, NA, tʰ, u, ta4, NA, NA, NA, 4, 2, 2, NA, NA, 4, 2, NA, NA, 0.5115, 54.4889, 252.6519, NA, NA, 69, 11034, 51162, NA, NA, 0.8657, 27.1368, 190.5342, NA, NA, 29, 1270, 8917, NA, NA, 0.3945, 62.7103, 2 [illegible]
迎战, 迎, 战, NA, NA, 2, LRB, LR, NA, NA, PicPho, PicPho, NA, NA, ying2zhan4, ying2, zhan4, NA, NA, iŋ2tʂan4, iŋ2, tʂan4, NA, NA, i, n, NA, ang2, zhan1, NA, NA, 5, 2, 3, NA, NA, 2, 4, NA, NA, 1.7346, 245.5309, 721.5358, NA, NA, 234, 49720, 146111, NA, NA, 1.3134, 204.8932, 395.5342, NA, NA, 44, 9589, 18511, NA, NA [illegible]
肝火, 肝, 火, NA, NA, 2, LR, SG, NA, NA, PicPho, Picto, NA, NA, gan1huo3, gan1, huo3, NA, NA, kan1xwo3, kan1, xwo3, NA, NA, k, o, gan1, NA, NA, NA, 6, 3, 3, NA, NA, 1, 3, NA, NA, 1.0823, 29.2642, 528.6667, NA, NA, 146, 5926, 107055, NA, NA, 0.3881, 17.7991, 394.8504, NA, NA, 13, 833, 18479, NA, NA, 1.3116, [illegible]
筹备, 筹, 备, NA, NA, 2, UD, UD, NA, NA, PicPho, PicSyn, NA, NA, chou2bei4, chou2, bei4, NA, NA, tʂʰou2pei4, tʂʰou2, pei4, NA, NA, tʂʰ, i, shou4, NA, NA, NA, 6, 3, 3, NA, NA, 2, 4, NA, NA, 2.9726, 53.521, 416.8691, NA, NA, 401, 10838, 84416, NA, NA, 3.4925, 30, 591.2179, NA, NA, 117, 1404, 27669, NA, NA, 2.8008 [illegible]
蜜月, 蜜, 月, NA, NA, 2, UD, SG, NA, NA, PicPho, Picto, NA, NA, mi4yue4, mi4, yue4, NA, NA, mi4ɥe4, mi4, ɥe4, NA, NA, m, e, mi4, NA, NA, NA, 4, 2, 2, NA, NA, 4, 4, NA, NA, 4.9815, 154.9926, 716.8346, NA, NA, 672, 31386, 145159, NA, NA, 12.806, 51.3889, 356.3034, NA, NA, 429, 2405, 16675, NA, NA, 2.3964, 18 [illegible]
菲, 菲, NA, NA, NA, 1, UD, NA, NA, NA, PicPho, NA, NA, NA, fei1, fei1, NA, NA, NA, fei1, fei1, NA, NA, NA, f, i, fei1, NA, NA, NA, 3, 3, NA, NA, NA, 1, NA, NA, NA, 9.8592, 73.4321, NA, NA, NA, 1330, 14870, NA, NA, NA, 15.3134, 90.8761, NA, NA, NA, 513, 4253, NA, NA, NA, 8.0572, 68.1888, NA, NA, NA, 817, [illegible]
拍板, 拍, 板, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, pai1ban3, pai1, ban3, NA, NA, pʰai1pan3, pʰai1, pan3, NA, NA, pʰ, n, bai2, fan3, NA, NA, 6, 3, 3, NA, NA, 1, 3, NA, NA, 0.4003, 286.2963, 194.2815, NA, NA, 54, 57975, 39342, NA, NA, 0.4179, 247.3932, 178.5043, NA, NA, 14, 11578, 8354, NA, NA, 0.39 [illegible]
群岛, 群, 岛, NA, NA, 2, LR, UD, NA, NA, PicPho, PicPho, NA, NA, qun2dao3, qun2, dao3, NA, NA, tɕʰyn2tau3, tɕʰyn2, tau3, NA, NA, tɕʰ, u, jun1, niao3, NA, NA, 6, 3, 3, NA, NA, 2, 3, NA, NA, 2.2239, 162.6667, 97.284, NA, NA, 300, 32940, 19700, NA, NA, 3.8806, 104.2735, 88.7607, NA, NA, 130, 4880, 4154, NA, NA, 1. [illegible]
饶, 饶, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, rao2, rao2, NA, NA, NA, ɹau2, ɹau2, NA, NA, NA, ɹ, u, yao2, NA, NA, NA, 3, 3, NA, NA, NA, 2, NA, NA, NA, 3.2394, 12.3556, NA, NA, NA, 437, 2502, NA, NA, NA, 10.5075, 14.7436, NA, NA, NA, 352, 690, NA, NA, NA, 0.8383, 11.6378, NA, NA, NA, 85, 1 [illegible]
学业, 学, 业, NA, NA, 2, UD, SG, NA, NA, Other, Picto, NA, NA, xue2ye4, xue2, ye4, NA, NA, ɕɥe2jie4, ɕɥe2, jie4, NA, NA, ɕ, e, NA, NA, NA, NA, 6, 3, 3, NA, NA, 2, 4, NA, NA, 9.8666, 1166.4395, 474.0938, NA, NA, 1331, 236204, 96004, NA, NA, 3.7612, 896.6667, 297.6068, NA, NA, 126, 41964, 13928, NA, NA, 11.883 [illegible]
统御, 统, 御, NA, NA, 2, LR, LR, NA, NA, PicPho, PicSyn, NA, NA, tong3yu4, tong3, yu4, NA, NA, tʰuŋ3y4, tʰuŋ3, y4, NA, NA, tʰ, y, chong1, NA, NA, NA, 4, 3, 1, NA, NA, 3, 4, NA, NA, 0.0445, 183.0074, 18.879, NA, NA, 6, 37059, 3823, NA, NA, 0.0896, 285.3632, 13.4615, NA, NA, 3, 13355, 630, NA, NA, 0.0296, 152.24 [illegible]
谦让, 谦, 让, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, qian1rang4, qian1, rang4, NA, NA, tɕʰjɛn1ɹaŋ4, tɕʰjɛn1, ɹaŋ4, NA, NA, tɕʰ, ŋ, jian1, shang4, NA, NA, 7, 4, 3, NA, NA, 1, 4, NA, NA, 1.6827, 28.3407, 1628.2815, NA, NA, 227, 5739, 329727, NA, NA, 0.209, 8.5256, 2673.3761, NA, NA, 7, 399, 125114, NA, N [illegible]
痧, 痧, NA, NA, NA, 1, HCI, NA, NA, NA, PicPho, NA, NA, NA, sha1, sha1, NA, NA, NA, ʂa1, ʂa1, NA, NA, NA, ʂ, a, sha1, NA, NA, NA, 2, 2, NA, NA, NA, 1, NA, NA, NA, 0.0148, 0.8099, NA, NA, NA, 2, 164, NA, NA, NA, 0.0299, 0.0641, NA, NA, NA, 1, 3, NA, NA, NA, 0.0099, 1.034, NA, NA, NA, 1, 161, NA, NA, NA [illegible]
狭隘, 狭, 隘, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, xia2ai4, xia2, ai4, NA, NA, ɕja2ai4, ɕja2, ai4, NA, NA, ɕ, i, jia2, yi4, NA, NA, 5, 3, 2, NA, NA, 2, 4, NA, NA, 3.6768, 8.163, 2.642, NA, NA, 496, 1653, 535, NA, NA, 1.2836, 5.0214, 1.2393, NA, NA, 43, 235, 58, NA, NA, 4.4675, 9.1073, 3.0636, NA, NA, 45 [illegible]
吩咐, 吩, 咐, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, fen1fu4, fen1, fu4, NA, NA, fən1fu4, fən1, fu4, NA, NA, f, u, fen1, fu4, NA, NA, 5, 3, 2, NA, NA, 1, 4, NA, NA, 3.4248, 2.316, 4.0346, NA, NA, 462, 469, 817, NA, NA, 9.3134, 6.688, 7.4786, NA, NA, 312, 313, 350, NA, NA, 1.4793, 1.0019, 2.9994, NA, NA [illegible]
齐全, 齐, 全, NA, NA, 2, UD, UD, NA, NA, Other, PicSyn, NA, NA, qi2quan2, qi2, quan2, NA, NA, tɕʰi2tɕʰɥɛn2, tɕʰi2, tɕʰɥɛn2, NA, NA, tɕʰ, n, NA, NA, NA, NA, 6, 2, 4, NA, NA, 2, 2, NA, NA, 4.1586, 72.1531, 943.6049, NA, NA, 561, 14611, 191080, NA, NA, 2.3284, 35.7051, 1015.9188, NA, NA, 78, 1671, 47545, NA, NA, [illegible]
抚, 抚, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, fu3, fu3, NA, NA, NA, fu3, fu3, NA, NA, NA, f, u, wu2, NA, NA, NA, 2, 2, NA, NA, NA, 3, NA, NA, NA, 0.3929, 18.9975, NA, NA, NA, 53, 3847, NA, NA, NA, 1.4328, 25.9615, NA, NA, NA, 48, 1215, NA, NA, NA, 0.0493, 16.9043, NA, NA, NA, 5, 2632, NA [illegible]
陋习, 陋, 习, NA, NA, 2, LR, SG, NA, NA, Other, PicSyn, NA, NA, lou4xi2, lou4, xi2, NA, NA, lou4ɕi2, lou4, ɕi2, NA, NA, l, i, NA, NA, NA, NA, 5, 3, 2, NA, NA, 4, 2, NA, NA, 0.8821, 8.1432, 288.8148, NA, NA, 119, 1649, 58485, NA, NA, 0.2687, 10.0427, 171.9658, NA, NA, 9, 470, 8048, NA, NA, 1.0848, 7.5723, 323.937 [illegible]
引号, 引, 号, NA, NA, 2, LR, UD, NA, NA, PicLog, PicPho, NA, NA, yin3hao4, yin3, hao4, NA, NA, in3xau4, in3, xau4, NA, NA, i, u, NA, kao3, NA, NA, 5, 2, 3, NA, NA, 3, 4, NA, NA, 0.3484, 186.4, 436.8296, NA, NA, 47, 37746, 88458, NA, NA, 0.4776, 198.6538, 460.9188, NA, NA, 16, 9297, 21571, NA, NA, 0.3057, 182.7 [illegible]
伦巴, 伦, 巴, NA, NA, 2, LR, SG, NA, NA, PicPho, Picto, NA, NA, lun2ba1, lun2, ba1, NA, NA, lwən2pa1, lwən2, pa1, NA, NA, l, a, lun2, NA, NA, NA, 6, 4, 2, NA, NA, 2, 1, NA, NA, 0.934, 101.0123, 266.1877, NA, NA, 126, 20455, 53903, NA, NA, 3.0149, 168.8889, 308.6538, NA, NA, 101, 7904, 14445, NA, NA, 0.2465, 80 [illegible]
绝对, 绝, 对, NA, NA, 2, LR, LR, NA, NA, PicSyn, PicSyn, NA, NA, jue2dui4, jue2, dui4, NA, NA, tɕɥe2twei4, tɕɥe2, twei4, NA, NA, tɕ, i, NA, NA, NA, NA, 7, 3, 4, NA, NA, 2, 4, NA, NA, 144.0771, 316.5778, 2376.2617, NA, NA, 19436, 64107, 481193, NA, NA, 202.4478, 341.9658, 4098.141, NA, NA, 6782, 16004, 191793, [illegible]
毛豆, 毛, 豆, NA, NA, 2, SG, UD, NA, NA, Picto, Picto, NA, NA, mao2dou4, mao2, dou4, NA, NA, mau2tou4, mau2, tou4, NA, NA, m, u, NA, NA, NA, NA, 6, 3, 3, NA, NA, 2, 4, NA, NA, 1.1416, 279.9012, 179.1901, NA, NA, 154, 56680, 36286, NA, NA, 0.0597, 138.6111, 43.9316, NA, NA, 2, 6487, 2056, NA, NA, 1.499, 32 [illegible]
驯化, 驯, 化, NA, NA, 2, LR, LR, NA, NA, PicPho, PicSyn, NA, NA, xun4hua4, xun4, hua4, NA, NA, ɕyn4xwa4, ɕyn4, xwa4, NA, NA, ɕ, a, chuan1, NA, NA, NA, 6, 3, 3, NA, NA, 4, 4, NA, NA, 0.1557, 5.116, 422.484, NA, NA, 21, 1036, 85553, NA, NA, 0.3582, 6.9017, 240.3419, NA, NA, 12, 323, 11248, NA, NA, 0.0888, 4.5 [illegible]
瞩望, 瞩, 望, NA, NA, 2, LR, UD, NA, NA, PicPho, PicSyn, NA, NA, zhu3wang4, zhu3, wang4, NA, NA, tʂu3waŋ4, tʂu3, waŋ4, NA, NA, tʂ, ŋ, shu3, NA, NA, NA, 5, 2, 3, NA, NA, 3, 4, NA, NA, 0.0593, 2.7309, 901.2988, NA, NA, 8, 553, 182513, NA, NA, 0.0299, 2.5, 786.1325, NA, NA, 1, 117, 36791, NA, NA, 0.069, 2.8003, [illegible]
走兽, 走, 兽, NA, NA, 2, UD, UD, NA, NA, PicSyn, Picto, NA, NA, zou3shou4, zou3, shou4, NA, NA, tsou3ʂou4, tsou3, ʂou4, NA, NA, ts, u, NA, NA, NA, NA, 6, 3, 3, NA, NA, 3, 4, NA, NA, 0.1705, 1060.6222, 73.0222, NA, NA, 23, 214776, 14787, NA, NA, 0.0896, 1768.4829, 46.3248, NA, NA, 3, 82765, 2168, NA, NA, 0.19 [illegible]
棺, 棺, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, guan1, guan1, NA, NA, NA, kwan1, kwan1, NA, NA, NA, k, n, guan1, NA, NA, NA, 4, 4, NA, NA, NA, 1, NA, NA, NA, 0.252, 5.2988, NA, NA, NA, 34, 1073, NA, NA, NA, 0.9851, 13.0342, NA, NA, NA, 33, 610, NA, NA, NA, 0.0099, 2.9737, NA, NA, NA, 1, [illegible]
朗读, 朗, 读, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, lang3du2, lang3, du2, NA, NA, laŋ3tu2, laŋ3, tu2, NA, NA, l, u, liang2, mai4, NA, NA, 5, 3, 2, NA, NA, 3, 2, NA, NA, 1.5271, 59.2988, 169.042, NA, NA, 206, 12008, 34231, NA, NA, 2.0896, 63.4188, 152.5214, NA, NA, 70, 2968, 7138, NA, NA, 1.3412, 58.0 [illegible]
暗堡, 暗, 堡, NA, NA, 2, LR, UD, NA, NA, PicPho, PicPho, NA, NA, an4bao3, an4, bao3, NA, NA, an4pau3, an4, pau3, NA, NA, a, u, yin1, bao3, NA, NA, 5, 2, 3, NA, NA, 4, 3, NA, NA, 0.0148, 151.0222, 38.5778, NA, NA, 2, 30582, 7812, NA, NA, 0.0299, 110.5983, 58.1624, NA, NA, 1, 5176, 2722, NA, NA, 0.0099, 163.1728 [illegible]
联防, 联, 防, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, lian2fang2, lian2, fang2, NA, NA, ljɛn2faŋ2, ljɛn2, faŋ2, NA, NA, l, ŋ, guan1, fang1, NA, NA, 7, 4, 3, NA, NA, 2, 2, NA, NA, 0.2001, 293.8765, 131.1457, NA, NA, 27, 59510, 26557, NA, NA, 0.1791, 301.6453, 141.8803, NA, NA, 6, 14117, 6640, NA, NA, 0.2 [illegible]
运力, 运, 力, NA, NA, 2, LRB, SG, NA, NA, PicPho, Picto, NA, NA, yun4li4, yun4, li4, NA, NA, yn4li4, yn4, li4, NA, NA, y, i, yun2, NA, NA, NA, 4, 2, 2, NA, NA, 4, 4, NA, NA, 0.6153, 647.1951, 1358.479, NA, NA, 83, 131057, 275092, NA, NA, 0.0896, 405.235, 958.5256, NA, NA, 3, 18965, 44859, NA, NA, 0.789, 719.9229 [illegible]
喷嚏, 喷, 嚏, NA, NA, 2, LR, LR, NA, NA, PicPho, PicPho, NA, NA, pen1ti4, pen1, ti4, NA, NA, pʰən1tʰi4, pʰən1, tʰi4, NA, NA, pʰ, i, ben1, di4, NA, NA, 5, 3, 2, NA, NA, 1, 4, NA, NA, 5.6116, 39.3679, 6.8296, NA, NA, 757, 7972, 1383, NA, NA, 1.403, 40.235, 2.8419, NA, NA, 47, 1883, 133, NA, NA, 7.002, 39.1073, 8.0283, [illegible]
目送, 目, 送, NA, NA, 2, SG, LRB, NA, NA, Picto, PicSyn, NA, NA, mu4song4, mu4, song4, NA, NA, mu4suŋ4, mu4, suŋ4, NA, NA, m, ŋ, NA, NA, NA, NA, 5, 2, 3, NA, NA, 4, 4, NA, NA, 1.7717, 441.8173, 524.8543, NA, NA, 239, 89468, 106283, NA, NA, 0.3881, 480.3846, 375, NA, NA, 13, 22482, 17550, NA, NA, 2.2288, [illegible]
篇幅, 篇, 幅, NA, NA, 2, UD, LR, NA, NA, PicPho, PicPho, NA, NA, pian1fu2, pian1, fu2, NA, NA, pʰjɛn1fu2, pʰjɛn1, fu2, NA, NA, pʰ, u, bian3, fu2, NA, NA, 6, 4, 2, NA, NA, 1, 2, NA, NA, 0.6153, 88.0988, 34.8444, NA, NA, 83, 17840, 7056, NA, NA, 0.2985, 32.8632, 27.2222, NA, NA, 10, 1538, 1274, NA, NA, 0.7199, 104. [illegible]
愚, 愚, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, yu2, yu2, NA, NA, NA, y2, y2, NA, NA, NA, y, y, yu3, NA, NA, NA, 1, 1, NA, NA, NA, 2, NA, NA, NA, 0.3706, 30.8938, NA, NA, NA, 50, 6256, NA, NA, NA, 1.2239, 58.141, NA, NA, NA, 41, 2721, NA, NA, NA, 0.0888, 22.7039, NA, NA, NA, 9, 3535, NA, N [illegible]
入时, 入, 时, NA, NA, 2, SG, LR, NA, NA, Picto, Other, NA, NA, ru4shi2, ru4, shi2, NA, NA, ɹu4ʂɿ2, ɹu4, ʂɿ2, NA, NA, ɹ, ɹ, NA, NA, NA, NA, 4, 2, 2, NA, NA, 4, 2, NA, NA, 0.2076, 662.6519, 3481.5852, NA, NA, 28, 134187, 705021, NA, NA, 0.209, 518.5684, 3474.594, NA, NA, 7, 24269, 162611, NA, NA, 0.2071, 705.9602 [illegible]
涯, 涯, NA, NA, NA, 1, LR, NA, NA, NA, PicPho, NA, NA, NA, ya2, ya2, NA, NA, NA, ja2, ja2, NA, NA, NA, j, a, ya2, NA, NA, NA, 2, 2, NA, NA, NA, 2, NA, NA, NA, 0.126, 38.2963, NA, NA, NA, 17, 7755, NA, NA, NA, 0.2687, 14.6154, NA, NA, NA, 9, 684, NA, NA, NA, 0.0789, 45.4143, NA, NA, NA, 8, 7071, NA, N [illegible]
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[illegible]

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The, and, to, of, was, he, in, that, it, his, had, with, as, for, at, on, but, be, by, not, from, she, they, or, an, were, which, her, have, this, him, one, all, would, there, their, we, when, can, said, if, will, up, out, so, what, about, who, them, no, into, could, time, some, like, other, than, then, its, now, look, only, come, over, think, also, back, after, use, two, how, our, work, first, well, way, even, new, want, because, any, these, give, day, most, us, is, are, was, were, has, had, been, being, have, had, having, do, does, did, doing, will, would, shall, should, may, might, must, can, could, am

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```
1 MOV R0, 0x0
2 MOV R1, 0x0
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4 MOV R3, 0x0
5 MOV R4, 0x0
6 MOV R5, 0x0
7 MOV R6, 0x0
8 MOV R7, 0x0
9 MOV R8, 0x0
10 MOV R9, 0x0
```

the the the

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

```
1 # Copyright (c) Meta Platforms, Inc. and affiliates.
2 #
3 # This source code is licensed under the MIT license found in the
4 # LICENSE file in the root directory of this source tree.
5
6 import os
7 import sys
8 import time
9 import math
10 import pickle
11 from contextlib import nullcontext
12
13 import numpy as np
14 import torch
15 from torch.nn.parallel import DistributedDataParallel as DDP
16 from torch.distributed import init_process_group, destroy_process_group
17
18 from model import GPTConfig, GPT
19
20 # -----------------------------------------------------------------------------
21 # default config values designed to train a gpt2 (124M) on OpenWebText
22 # I/O
23 out_dir = 'out'
24 eval_interval = 2000
25 log_interval = 1
26 eval_iters = 200
27 eval_only = False # if True, script exits right after the first eval
28 always_save_checkpoint = True # if True, always save a checkpoint after each eval
29 init_from = 'scratch' # 'scratch' or 'resume' or 'gpt2*'
30 # wandb logging
31 wandb_log = False # disabled by default
32 wandb_project = 'owt'
33 wandb_run_name = 'gpt2' # 'run' + str(time.time())
34 # data
35 dataset = 'openwebtext'
36 gradient_accumulation_steps = 5 * 8 # used to simulate larger batch sizes
37 batch_size = 12 # if gradient_accumulation_steps > 1, this is the micro-batch size
38 block_size = 1024
39 # model
40 n_layer = 12
41 n_head = 12
42 n_embd = 768
43 dropout = 0.0 # for pretraining 0 is good, for finetuning try 0.1+
44 bias = False # do we use bias inside LayerNorm and Linear layers?
45 # adamw optimizer
46 learning_rate = 6e-4 # max learning rate
47 max_iters = 600000 # total number of training iterations
48 weight_decay = 1e-1
49 beta1 = 0.9
50 beta2 = 0.95
51 grad_clip = 1.0 # clip gradients at this value, or disable if == 0.0
52 # learning rate decay settings
53 decay_lr = True # whether to decay the learning rate
54 warmup_iters = 2000 # how many steps to warm up for
55 lr_decay_iters = 600000 # should be ~= max_iters per Chinchilla
56 min_lr = 6e-5 # minimum learning rate, should be ~= learning_rate/10 per Chinchilla
57 # DDP settings
58 backend = 'nccl' # 'nccl', 'gloo', etc.
59 # system
60 device = 'cuda' # examples: 'cpu', 'cuda', 'cuda:0', 'cuda:1' etc., or try 'mps' on macbooks
61 dtype = 'bfloat16' if torch.cuda.is_available() and torch.cuda.is_bf16_supported() else 'float16' # 'float32', 'bfloat16', or 'float16', the latter will auto implement a GradScaler
62 compile = True # use PyTorch 2.0 to compile the model to be faster
63 # -----------------------------------------------------------------------------
64 config_keys = [k for k,v in globals().items() if not k.startswith('_') and isinstance(v, (int, float, bool, str))]
65 exec(open('configurator.py').read()) # overrides from command line or config file
66 config = {k: globals()[k] for k in config_keys} # will be useful for logging
67 # -----------------------------------------------------------------------------
68
69 # various inits, derived attributes, I/O setup
70 ddp = int(os.environ.get('RANK', -1)) != -1 # is this a ddp run?
71 if ddp:
72     init_process_group(backend=backend)
73     ddp_rank = int(os.environ['RANK'])
74     ddp_local_rank = int(os.environ['LOCAL_RANK'])
75     ddp_world_size = int(os.environ['WORLD_SIZE'])
76     device = f'cuda:{ddp_local_rank}'
77     torch.cuda.set_device(device)
78     master_process = ddp_rank == 0 # this process will do logging, checkpointing etc.
79     seed_offset = ddp_rank # each process gets a different seed
80     # world_size number of processes will be training simultaneously, so we can scale
81     # down the desired gradient accumulation iterations per process proportionally
82     assert gradient_accumulation_steps % ddp_world_size == 0
83     gradient_accumulation_steps //= ddp_world_size
84 else:
85     # if not ddp, we are running on a single gpu, and one process
86     master_process = True
87     seed_offset = 0
88     ddp_world_size = 1
89 tokens_per_iter = gradient_accumulation_steps * ddp_world_size * batch_size * block_size
90 print(f"tokens per iteration will be: {tokens_per_iter:,}")
91
92 if master_process:
93     os.makedirs(out_dir, exist_ok=True)
94 torch.manual_seed(1337 + seed_offset)
95 torch.backends.cuda.matmul.allow_tf32 = True # allow tf32 on matmul
96 torch.backends.cudnn.allow_tf32 = True # allow tf32 on cudnn
97 device_type = 'cuda' if 'cuda' in device else 'cpu' # for later use in torch.autocast
98 # note: float16 data type will automatically use a GradScaler
99 ptdtype = {'float32': torch.float32, 'bfloat16': torch.bfloat16, 'float16': torch.float16}[dtype]
100 ctx = nullcontext() if device_type == 'cpu' else torch.amp.autocast(device_type=device_type, dtype=ptdtype)
101
102 # poor man's data loader
103 data_dir = os.path.join('data', dataset)
104 train_data = np.memmap(os.path.join(data_dir, 'train.bin'), dtype=np.uint16, mode='r')
105 val_data = np.memmap(os.path.join(data_dir, 'val.bin'), dtype=np.uint16, mode='r')
106 def get_batch(split):
107     data = train_data if split == 'train' else val_data
108     ix = torch.randint(len(data) - block_size, (batch_size,))
109     x = torch.stack([torch.from_numpy((data[i:i+block_size]).astype(np.int64)) for i in ix])
110     y = torch.stack([torch.from_numpy((data[i+1:i+1+block_size]).astype(np.int64)) for i in ix])
111     if device_type == 'cuda':
112         # pin arrays x,y, which allows us to move them to GPU asynchronously (non_blocking=True)
113         x, y = x.pin_memory().to(device, non_blocking=True), y.pin_memory().to(device, non_blocking=True)
114     else:
115         x, y = x.to(device), y.to(device)
116     return x, y
117
118 # init these up here, can override if init_from='resume' (i.e. from a checkpoint)
119 iter_num = 0
120 best_val_loss = 1e9
121
122 # attempt to derive vocab_size from the dataset
123 meta_path = os.path.join(data_dir, 'meta.pkl')
124 meta_vocab_size = None
125 if os.path.exists(meta_path):
126     with open(meta_path, 'rb') as f:
127         meta = pickle.load(f)
128     meta_vocab_size = meta['vocab_size']
129     print(f"found vocab_size = {meta_vocab_size} (inside {meta_path})")
130
131 # model init
132 model_args = dict(n_layer=n_layer, n_head=n_head, n_embd=n_embd, block_size=block_size,
133                   bias=bias, vocab_size=None, dropout=dropout) # start with model_args from command line
134 if init_from == 'scratch':
135     # init a new model from scratch
136     print("Initializing a new model from scratch")
137     # determine the vocab_size we'll use for from-scratch training
138     if meta_vocab_size is None:
139         print("defaulting to vocab_size of GPT-2 to 50304 (50257 rounded up for efficiency)")
140     model_args['vocab_size'] = meta_vocab_size if meta_vocab_size is not None else 50304
141     gptconf = GPTConfig(**model_args)
142     model = GPT(gptconf)
143 elif init_from == 'resume':
144     print(f"Resuming training from {out_dir}")
145     # resume training from a checkpoint.
146     ckpt_path = os.path.join(out_dir, 'ckpt.pt')
147     checkpoint = torch.load(ckpt_path, map_location=device)
148     checkpoint_model_args = checkpoint['model_args']
149     # force these config attributes to be equal otherwise we can't even resume training
150     # the rest of the attributes (e.g. dropout) can stay as desired from command line
151     for k in ['n_layer', 'n_head', 'n_embd', 'block_size', 'bias', 'vocab_size']:
152         model_args[k] = checkpoint_model_args[k]
153     # create the model
154     gptconf = GPTConfig(**model_args)
155     model = GPT(gptconf)
156     state_dict = checkpoint['model']
157     # fix the keys of the state dictionary :( honestly no idea how checkpoints sometimes get this prefix, have to debug more
158     unwanted_prefix = '_orig_mod.'
159     for k,v in list(state_dict.items()):
160         if k.startswith(unwanted_prefix):
161             state_dict[k[len(unwanted_prefix):]] = state_dict.pop(k)
162     model.load_state_dict(state_dict)
163     iter_num = checkpoint['iter_num']
164     best_val_loss = checkpoint['best_val_loss']
165 elif init_from.startswith('gpt2'):
166     print(f"Initializing from OpenAI GPT-2 weights: {init_from}")
167     # initialize from OpenAI GPT-2 weights
168     override_args = dict(dropout=dropout)
169     model = GPT.from_pretrained(init_from, override_args)
170     # read off the created config params, so we can store them into checkpoint correctly
171     for k in ['n_layer', 'n_head', 'n_embd', 'block_size', 'bias', 'vocab_size']:
172         model_args[k] = getattr(model.config, k)
173 # crop down the model block size if desired, using model surgery
174 if block_size < model.config.block_size:
175     model.crop_block_size(block_size)
176     model_args['block_size'] = block_size # so that the checkpoint will have the right value
177 model.to(device)
178
179 # initialize a GradScaler. If enabled=False scaler is a no-op
180 scaler = torch.cuda.amp.GradScaler(enabled=(dtype == 'float16'))
181
182 # optimizer
183 optimizer = model.configure_optimizers(weight_decay, learning_rate, (beta1, beta2), device_type)
184 if init_from == 'resume':
185     optimizer.load_state_dict(checkpoint['optimizer'])
186 checkpoint = None # free up memory
187
188 # compile the model
189 if compile:
190     print("compiling the model... (takes a ~minute)")
191     unoptimized_model = model
192     model = torch.compile(model) # requires PyTorch 2.0
193
194 # wrap model into DDP container
195 if ddp:
196     model = DDP(model, device_ids=[ddp_local_rank])
197
198 # helps estimate an arbitrarily accurate loss over either split using many batches
199 @torch.no_grad()
200 def estimate_loss():
201     out = {}
202     model.eval()
203     for split in ['train', 'val']:
204         losses = torch.zeros(eval_iters)
205         for k in range(eval_iters):
206             X, Y = get_batch(split)
207             with ctx:
208                 logits, loss = model(X, Y)
209             losses[k] = loss.item()
210         out[split] = losses.mean()
211     model.train()
212     return out
213
214 # learning rate decay scheduler (cosine with warmup)
215 def get_lr(it):
216     # 1) linear warmup for warmup_iters steps
217     if it < warmup_iters:
218         return learning_rate * it / warmup_iters
219     # 2) if it > lr_decay_iters, return min learning rate
220     if it > lr_decay_iters:
221         return min_lr
222     # 3) in between, use cosine decay down to min learning rate
223     decay_ratio = (it - warmup_iters) / (lr_decay_iters - warmup_iters)
224     assert 0 <= decay_ratio <= 1
225     coeff = 0.5 * (1.0 + math.cos(math.pi * decay_ratio)) # coeff ranges 0..1
226     return min_lr + coeff * (learning_rate - min_lr)
227
228 # logging
229 if wandb_log and master_process:
230     import wandb
231     wandb.init(project=wandb_project, name=wandb_run_name, config=config)
232
233 # training loop
234 X, Y = get_batch('train') # fetch the very first batch
235 t0 = time.time()
236 local_iter_num = 0 # number of iterations in the lifetime of this process
237 raw_model = model.module if ddp else model # unwrap DDP container if needed
238 running_mfu = -1.0
239 while True:
240
241     # determine and set the learning rate for this iteration
242     lr = get_lr(iter_num) if decay_lr else learning_rate
243     for param_group in optimizer.param_groups:
244         param_group['lr'] = lr
245
246     # evaluate the loss on train/val sets and write checkpoints
247     if iter_num % eval_interval == 0 and master_process:
248         losses = estimate_loss()
249         print(f"step {iter_num}: train loss {losses['train']:.4f}, val loss {losses['val']:.4f}")
250         if wandb_log:
251             wandb.log({
252                 "iter": iter_num,
253                 "train/loss": losses['train'],
254                 "val/loss": losses['val'],
255                 "lr": lr,
256                 "mfu": running_mfu*100, # convert to percentage
257             })
258         if losses['val'] < best_val_loss or always_save_checkpoint:
259             best_val_loss = losses['val']
260             if iter_num > 0:
261                 checkpoint = {
262                     'model': raw_model.state_dict(),
263                     'optimizer': optimizer.state_dict(),
264                     'model_args': model_args,
265                     'iter_num': iter_num,
266                     'best_val_loss': best_val_loss,
267                     'config': config,
268                 }
269                 print(f"saving checkpoint to {out_dir}")
270                 torch.save(checkpoint, os.path.join(out_dir, 'ckpt.pt'))
271     if iter_num == 0 and eval_only:
272         break
273
274     # forward backward update, with optional gradient accumulation to simulate larger batch size
275     # and using the GradScaler if data type is float16
276     for micro_step in range(gradient_accumulation_steps):
277         if ddp:
278             # in DDP training we only need to sync gradients at the last micro step.
279             # the official way to do this is with model.no_sync() context manager, but
280             # I really dislike that this bloats the code and forces us to repeat code
281             # looking at the source of that context manager, it just toggles this variable
282             model.require_backward_grad_sync = (micro_step == gradient_accumulation_steps - 1)
283         with ctx:
284             logits, loss = model(X, Y)
285             loss = loss / gradient_accumulation_steps # scale the loss to account for gradient accumulation
286         # immediately async prefetch next batch while model is doing the forward pass on the GPU
287         X, Y = get_batch('train')
288         # backward pass, with gradient scaling if training in fp16
289         scaler.scale(loss).backward()
290     # clip the gradient
291     if grad_clip != 0.0:
292         scaler.unscale_(optimizer)
293         torch.nn.utils.clip_grad_norm_(model.parameters(), grad_clip)
294     # step the optimizer and scaler if training in fp16
295     scaler.step(optimizer)
296     scaler.update()
297     # flush the gradients as soon as we can, no need for this memory anymore
298     optimizer.zero_grad(set_to_none=True)
299
300     # timing and logging
301     t1 = time.time()
302     dt = t1 - t0
303     t0 = t1
304     if iter_num % log_interval == 0 and master_process:
305         # get loss as float. note: this is a CPU-GPU sync point
306         # scale up to undo the division above, approximating the true total loss (exact would have been a sum)
307         lossf = loss.item() * gradient_accumulation_steps
308         if local_iter_num >= 5: # let the training loop settle a bit
309             mfu = raw_model.estimate_mfu(batch_size * gradient_accumulation_steps, dt)
310             running_mfu = mfu if running_mfu == -1.0 else 0.9*running_mfu + 0.1*mfu
311         print(f"iter {iter_num}: loss {lossf:.4f}, time {dt*1000:.2f}ms, mfu {running_mfu*100:.2f}%")
312     iter_num += 1
313     local_iter_num += 1
314
315     # termination conditions
316     if iter_num > max_iters:
317         break
318
319 if ddp:
320     destroy_process_group()
```

对证, 对, 证, NA, NA, 2, LR, LR, NA, NA, PicSyn, PicPho, NA, NA, dui4zheng4, dui4, zheng4, NA, NA, twei4tʂəŋ4, twei4, tʂəŋ4, NA, NA, t, ŋ, NA, zheng4, NA, NA, 7, 4, 3, NA, 4, 4, NA, NA, 0.0741, 2376.2617, 309.0519, NA, NA, 10, 481193, 62583, NA, NA, 0.1791, 4098.141, 644.5513, [illegible]
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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投诚, 投, 诚, NA, NA, 2, LR, LR, NA, NA, PicSyn, PicPho, NA, NA, tou2cheng2, tou2, cheng2, NA, NA, tʰou2tʂʰəŋ2, tʰou2, tʂʰəŋ2, NA, NA, tʰ, ŋ, shu1, cheng2, NA, NA, 6, 3, 3, NA, NA, 2, 2, NA, NA, 0.3558, 930.4444, 112.8642, NA, NA, 48, 188415, 22855, NA, NA, 0.5672, 240.5556, 79.0385, NA, NA, 19, 11258, 3699, NA, NA, 0.286, 1137.8099, 123.0315, NA, NA, 29, 177157, 19156, NA, NA, 0.3558, 1861.6976, 4960.2224, NA, NA, 59, 27, NA, NA, 839.3625, 131.6383, NA, NA, 15, 7, 8, NA, NA, 3586, 3954, NA, NA, 3588, 4057, NA, NA, 2209.75, 2694.7, NA, NA, 4, 11, 17, NA, NA, 1 [illegible]
步, 步, NA, NA, NA, 1, UD, NA, NA, NA, PicSyn, NA, NA, NA, bu4, bu4, NA, NA, NA, pu4, pu4, NA, NA, NA, p, u, NA, NA, NA, NA, 7, 7, NA, NA, NA, 4, NA, NA, NA, 0.0371, 0.4, NA, NA, NA, 5, 81, NA, NA, NA, 0.0299, 0.0214, NA, NA, NA, 1, 1, NA, NA, NA, 0.0394, 0.5138, NA, NA, NA, 4, 80, NA, NA, NA, 18483.1653, 23593.1208, NA, NA, NA, 0, NA, NA, NA, 0, NA, NA, NA, 0, NA, NA, NA, 止, NA, NA, NA, 3053, NA, NA, NA, 2583, NA, NA, NA, 2501.2, NA, NA, NA, 0, NA, NA, NA, 20, 22, NA, NA, NA, 1, 1, NA, NA, NA, 2593.6384, NA, NA, 4, NA, NA, 4, NA [illegible]

A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, 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ABR, ABS, ABT, ABU, ABV, ABW, ABX, ABY, ABZ, ACA, ACB, ACC, ACD, ACE, ACF, ACG, ACH, ACI, ACJ, ACK, ACL, ACM, ACN, ACO, ACP, ACQ, ACR, ACS, ACT, ACU, ACV, ACW, ACX, ACY, ACZ, ADA, ADB, ADC, ADD, ADE, ADF, ADG, ADH, ADI, ADJ, ADK, ADL, ADM, ADN, ADO, ADP, ADQ, ADR, ADS, ADT, ADU, ADV, ADW, ADX, ADY, ADZ, AEA, AEB, AEC, AED, AEE, AEF, AEG, AEH, AEI, AEJ, AEK, AEL, AEM, AEN, AEO, AEP, AEQ, AER, AES, AET, AEU, AEV, AEW, AEX, AEY, AEZ, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, AFI, AFJ, AFK, AFL, AFM, AFN, AFO, AFP, AFQ, AFR, AFS, AFT, AFU, AFV, AFW, AFX, AFY, AFZ, AGA, AGB, AGC, AGD, AGE, AGF, AGG, AGH, AGI, AGJ, AGK, AGL, AGM, AGN, AGO, AGP, AGQ, AGR, AGS, AGT, AGU, AGV, AGW, AGX, AGY, AGZ, AHA, AHB, AHC, AHD, AHE, AHF, AHG, AHH, AHI, AHJ, AHK, AHL, AHM, AHN, AHO, AHP, AHQ, AHR, AHS, AHT, AHU, AHV, AHW, AHX, AHY, AHZ, AIA, AIB, AIC, AID, AIE, AIF, AIG, AIH, AII, AIJ, AIK, AIL, AIM, AIN, AIO, AIP, AIQ, AIR, AIS, AIT, AIU, AIV, AIW, AIX, AIY, AIZ, AJA, AJB, AJC, AJD, AJE, AJF, AJG, AJH, AJI, AJJ, AJK, AJL, AJM, AJN, AJO, AJP, AJQ, AJR, AJS, AJT, AJU, AJV, AJW, AJX, AJY, AJZ, AKA, AKB, AKC, AKD, AKE, AKF, AKG, AKH, AKI, AKJ, AKK, AKL, AKM, AKN, AKO, AKP, AKQ, AKR, AKS, AKT, AKU, AKV, AKW, AKX, AKY, AKZ, ALA, ALB, ALC, ALD, ALE, ALF, ALG, ALH, ALI, ALJ, ALK, ALL, ALM, ALN, ALO, ALP, ALQ, ALR, ALS, ALT, ALU, ALV, ALW, ALX, ALY, ALZ, AMA, AMB, AMC, AMD, AME, AMF, AMG, AMH, AMI, AMJ, AMK, AML, AMM, AMN, AMO, AMP, AMQ, AMR, AMS, AMT, AMU, AMV, AMW, AMX, AMY, AMZ, ANA, ANB, ANC, AND, ANE, ANF, ANG, ANH, ANI, ANJ, ANK, ANL, ANM, ANN, ANO, ANP, ANQ, ANR, ANS, ANT, ANU, ANV, ANW, ANX, ANY, ANZ, AOA, AOB, AOC, AOD, AOE, AOF, AOG, AOH, AOI, AOJ, AOK, AOL, AOM, AON, AOO, AOP, AOQ, AOR, AOS, AOT, AOU, AOV, AOW, AOX, AOY, AOZ, APA, APB, APC, APD, APE, APF, APG, APH, API, APJ, APK, APL, APM, APN, APO, APP, APQ, APR, APS, APT, APU, APV, APW, APX, APY, APZ, AQA, AQB, AQC, AQD, AQE, AQF, AQG, AQH, AQI, AQJ, AQK, AQL, AQM, AQN, AQO, AQP, AQQ, AQR, AQS, AQT, AQU, AQV, AQW, AQX, AQY, AQZ, ARA, ARB, ARC, ARD, ARE, ARF, ARG, ARH, ARI, ARJ, ARK, ARL, ARM, ARN, ARO, ARP, ARQ, ARR, ARS, ART, ARU, ARV, ARW, ARX, ARY, ARZ, ASA, ASB, ASC, ASD, ASE, ASF, ASG, ASH, ASI, ASJ, ASK, ASL, ASM, ASN, ASO, ASP, ASQ, ASR, ASS, AST, ASU, ASV, ASW, ASX, ASY, ASZ, ATA, ATB, ATC, ATD, ATE, ATF, ATG, ATH, ATI, ATJ, ATK, ATL, ATM, ATN, ATO, ATP, ATQ, ATR, ATS, ATT, ATU, ATV, ATW, ATX, ATY, ATZ, AUA, AUB, AUC, AUD, AUE, AUF, AUG, AUH, AUI, AUJ, AUK, AUL, AUM, AUN, AUO, AUP, AUQ, AUR, AUS, AUT, AUU, AUV, AUW, AUX, AUY, AUZ, AVA, AVB, AVC, AVD, AVE, AVF, AVG, AVH, AVI, AVJ, AVK, AVL, AVM, AVN, AVO, AVP, AVQ, AVR, AVS, AVT, AVU, AVV, AVW, AVX, AVY, AVZ, AWA, AWB, AWC, AWD, AWE, AWF, AWG, AWH, AWI, AWJ, AWK, AWL, AWM, AWN, AWO, AWP, AWQ, AWR, AWS, AWT, AWU, AWV, AWW, AWX, AWY, AWZ, AXA, AXB, AXC, AXD, AXE, AXF, AXG, AXH, AXI, AXJ, AXK, AXL, AXM, AXN, AXO, AXP, AXQ, AXR, AXS, AXT, AXU, AXV, AXW, AXX, AXY, AXZ, AYA, AYB, AYC, AYD, AYE, AYF, AYG, AYH, AYI, AYJ, AYK, AYL, AYM, AYN, AYO, AYP, AYQ, AYR, AYS, 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BOD, BOE, BOF, BOG, BOH, BOI, BOJ, BOK, BOL, BOM, BON, BOO, BOP, BOQ, BOR, BOS, BOT, BOU, BOV, BOW, BOX, BOY, BOZ, BPA, BPB, BPC, BPD, BPE, BPF, BPG, BPH, BPI, BPJ, BPK, BPL, BPM, BPN, BPO, BPP, BPQ, BPR, BPS, BPT, BPU, BPV, BPW, BPX, BPY, BPZ, BQA, BQB, BQC, BQD, BQE, BQF, BQG, BQH, BQI, BQJ, BQK, BQL, BQM, BQN, BQO, BQP, BQQ, BQR, BQS, BQT, BQU, BQV, BQW, BQX, BQY, BQZ, BRA, BRB, BRC, BRD, BRE, BRF, BRG, BRH, BRI, BRJ, BRK, BRL, BRM, BRN, BRO, BRP, BRQ, BRR, BRS, BRT, BRU, BRV, BRW, BRX, BRY, BRZ, BSA, BSB, BSC, BSD, BSE, BSF, BSG, BSH, BSI, BSJ, BSK, BSL, BSM, BSN, BSO, BSP, BSQ, BSR, BSS, BST, BSU, BSV, BSW, BSX, BSY, BSZ, BTA, BTB, BTC, BTD, BTE, BTF, BTG, BTH, BTI, BTJ, BTK, BTL, BTM, BTN, BTO, BTP, BTQ, BTR, BTS, BTT, BTU, BTV, BTW, BTX, BTY, BTZ, BUA, BUB, BUC, BUD, BUE, BUF, BUG, BUH, BUI, BUJ, BUK, BUL, BUM, BUN, BUO, BUP, BUQ, BUR, BUS, BUT, BUU, BUV, BUW, BUX, BUY, BUZ, BVA, BVB, BVC, BVD, BVE, BVF, BVG, BVH, BVI, BVJ, BVK, BVL, BVM, BVN, BVO, BVP, BVQ, BVR, BVS, BVT, BVU, 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CDN, CDO, CDP, CDQ, CDR, CDS, CDT, CDU, CDV, CDW, CDX, CDY, CDZ, CEA, CEB, CEC, CED, CEE, CEF, CEG, CEH, CEI, CEJ, CEK, CEL, CEM, CEN, CEO, CEP, CEQ, CER, CES, CET, CEU, CEV, CEW, CEX, CEY, CEZ, CFA, CFB, CFC, CFD, CFE, CFF, CFG, CFH, CFI, CFJ, CFK, CFL, CFM, CFN, CFO, CFP, CFQ, CFR, CFS, CFT, CFU, CFV, CFW, CFX, CFY, CFZ, CGA, CGB, CGC, CGD, CGE, CGF, CGG, CGH, CGI, CGJ, CGK, CGL, CGM, CGN, CGO, CGP, CGQ, CGR, CGS, CGT, CGU, CGV, CGW, CGX, CGY, CGZ, CHA, CHB, CHC, CHD, CHE, CHF, CHG, CHH, CHI, CHJ, CHK, CHL, CHM, CHN, CHO, CHP, CHQ, CHR, CHS, CHT, CHU, CHV, CHW, CHX, CHY, CHZ, CIA, CIB, CIC, CID, CIE, CIF, CIG, CIH, CII, CIJ, CIK, CIL, CIM, CIN, CIO, CIP, CIQ, CIR, CIS, CIT, CIU, CIV, CIW, CIX, CIY, CIZ, CJA, CJB, CJC, CJD, CJE, CJF, CJG, CJH, CJI, CJJ, CJK, CJL, CJM, CJN, CJO, CJP, CJQ, CJR, CJS, CJT, CJU, CJV, CJW, CJX, CJY, CJZ, CKA, CKB, CKC, CKD, CKE, CKF, CKG, CKH, CKI, CKJ, CKK, CKL, CKM, CKN, CKO, CKP, CKQ, CKR, CKS, CKT, CKU, CKV, CKW, CKX, CKY, CKZ, CLA, CLB, CLC, CLD, CLE, 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Introduction to Algorithms

Chapter 1: The Role of Algorithms in Computing

1.1 Algorithms

Informally, an algorithm is any well-defined computational procedure that takes some value, or set of values, as input and produces some value, or set of values, as output. An algorithm is thus a sequence of computational steps that transform the input into the output.

We can also view an algorithm as a tool for solving a well-specified computational problem. The statement of the problem specifies in general terms the desired input/output relationship. The algorithm describes a specific computational procedure for achieving that input/output relationship.

For example, one might need to sort a sequence of numbers into nondecreasing order. This problem arises frequently in practice and provides fertile ground for introducing many standard design techniques and analysis tools. Here is how we formally define the sorting problem:

Input: A sequence of n numbers $\langle a_1, a_2, \ldots, a_n \rangle$.

Output: A permutation (reordering) $\langle a'_1, a'_2, \ldots, a'_n \rangle$ of the input sequence such that $a'_1 \leq a'_2 \leq \cdots \leq a'_n$.

For example, given the input sequence $\langle 31, 41, 59, 26, 41, 58 \rangle$, a sorting algorithm returns as output the sequence $\langle 26, 31, 41, 41, 58, 59 \rangle$. Such an input sequence is called an instance of the sorting problem. In general, an instance of a problem consists of the input (satisfying whatever constraints are imposed in the problem statement) needed to compute a solution to the problem.

Sorting is a fundamental operation in computer science (many programs use it as an intermediate step), and as a result a large number of good sorting algorithms have been developed. Which algorithm is best for a given application depends on—among other factors—the number of items to be sorted, the extent to which the items are already somewhat sorted, possible restrictions on the item values, the architecture of the computer, and the kind of storage devices to be used: main memory, disks, or tapes.

An algorithm is said to be correct if, for every input instance, it halts with the correct output. We say that a correct algorithm solves the given computational problem. An incorrect algorithm might not halt at all on some input instances, or it might halt with an answer other than the desired one. Contrary to what one might expect, incorrect algorithms can sometimes be useful, if their error rate can be controlled.

An algorithm can be specified in English, as a computer program, or even as a hardware design. The only requirement is that the specification must provide a precise description of the computational procedure to be followed.

1.2 Algorithms as a technology

Suppose computers were infinitely fast and computer memory was free. Would you have any reason to study algorithms? The answer is yes, if for no other reason than that you would still like to demonstrate that your solution method terminates and does so with the correct answer.

If computers were infinitely fast, any correct method for solving a problem would do. You would probably want your implementation to be within the bounds of good software engineering practice (i.e., well designed and documented), but you would usually be most concerned that your implementation use the right algorithm to solve the problem.

Even if computers were infinitely fast, algorithms would still be a technology. Total system performance depends on choosing efficient algorithms as much as on choosing fast hardware. Just as rapid advances in other technologies contribute to the feasibility of increasingly sophisticated applications, rapid advances in algorithms contribute to the feasibility of those applications.

1.2.1 Algorithms and other technologies

Algorithms are at the core of most technologies used in contemporary computers. Besides hardware design, algorithms are also central to software engineering, networking, and many other areas of computer science.

1.2.2 Algorithms and human-computer interaction

Algorithms are also increasingly important in human-computer interaction. Recommendation systems, search engines, and adaptive user interfaces all rely on algorithms to personalize content and respond to user behavior in real time.

1.3 Algorithms as a technology

Efficiency is often a more important factor than speed. Two algorithms for the same problem may both be correct, but one may require far more resources than the other. Understanding how to measure and compare algorithmic efficiency is a central theme of this book.

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Mar 4 0:0:1 xx-xx-xx-xx-xx-xx %LINK-3-UPDOWN: Interface GigabitEthernet0/0/1, changed state to down
Mar 4 0:0:1 xx-xx-xx-xx-xx-xx %LINK-3-UPDOWN: Interface GigabitEthernet0/0/2, changed state to down
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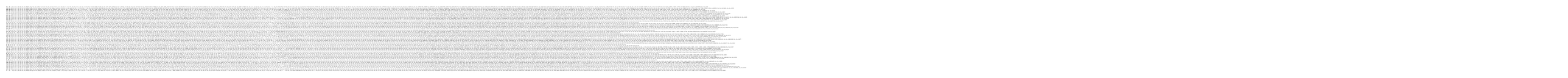

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Yes, it is a beautiful day. The sun is shining, the birds are singing, and the flowers are blooming. It is the perfect day to go outside and enjoy nature. I think I will take a walk in the park and maybe have a picnic lunch. It is so peaceful and relaxing to be surrounded by trees and grass. I love the smell of fresh air and the feeling of the warm sun on my skin. It is a great day to be alive and appreciate all the beauty around us. I am grateful for this day and all the blessings it brings. I hope everyone else is also enjoying this wonderful day and making the most of it. It is important to take time to appreciate the simple things in life and not get caught up in the stress and busyness of everyday life. I am glad I decided to take a break and spend some time outdoors. It is good for my mental and physical health. I feel more energized and refreshed after being in nature. I will definitely make this a regular part of my routine. I encourage everyone to do the same and find their own way to connect with nature. It is a wonderful way to recharge and find peace in the midst of a busy world. I am thankful for this reminder to slow down and enjoy the present moment. It is a gift that we should not take for granted. I am looking forward to the rest of the day and all the adventures it may bring. I am ready to embrace whatever comes my way with a positive attitude and an open heart. I am grateful for the opportunity to live and experience all that this world has to offer. I am thankful for the love and support of my family and friends who make my life so rich and meaningful. I am grateful for the lessons I have learned and the growth I have experienced. I am thankful for the challenges that have made me stronger and more resilient. I am grateful for the joy and laughter that fills my days. I am thankful for the beauty and wonder that surrounds me. I am grateful for the chance to make a difference in the world and leave a positive impact. I am thankful for the dreams and goals that inspire me to keep moving forward. I am grateful for the opportunity to learn and grow every day. I am thankful for the gift of life and all the blessings it holds. I am grateful for the love and kindness that I receive and give. I am thankful for the peace and contentment that I feel in my heart. I am grateful for the abundance and prosperity that I have been blessed with. I am thankful for the health and well-being that I enjoy. I am grateful for the opportunities that have come my way and the ones that are yet to come. I am thankful for the wisdom and guidance that I receive from the universe. I am grateful for the connection and unity that I feel with all beings. I am thankful for the gratitude that fills my heart and overflows into my life. I am grateful for the miracles that happen every day. I am thankful for the power of prayer and meditation. I am grateful for the healing and transformation that I have experienced. I am thankful for the forgiveness and compassion that I have received and given. I am grateful for the abundance of love that surrounds me. I am thankful for the joy and happiness that I feel in my soul. I am grateful for the peace and tranquility that I have found within myself. I am thankful for the light and love that I am. I am grateful for the opportunity to share my gratitude with the world. I am thankful for the chance to inspire others to live a life of gratitude. I am grateful for the power of gratitude to change my life and the lives of others. I am thankful for the gratitude that I have for all of these things and more. I am grateful for the opportunity to express my gratitude in this way. I am thankful for the chance to reflect on all the blessings in my life. I am grateful for the gratitude that I have for myself and my journey. I am thankful for the love and acceptance that I have for myself. I am grateful for the gratitude that I have for all of my experiences, both good and bad. I am thankful for the lessons that I have learned from all of my experiences. I am grateful for the gratitude that I have for the present moment. I am thankful for the gratitude that I have for the future. I am grateful for the gratitude that I have for the past

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the a to and of in that it is was he for on are as with his they I at be this have from or one had by word but not what all were we when your can said there use an each which she do how their if will up other about out many then them these so some her would make like him into time has look two more write go see number no way could people my than first water been call who oil its now find long down day did get come made may part over new sound take only little work know place year live me back give most very after thing our just name good sentence man think say great where help through much before line right too mean old any same tell boy follow came want show also around form three small set put end does another well large must big even such because turn here why ask went men read need land different home us move try kind hand picture again change off play spell air away animal house point page letter mother answer found study still learn should America world high every near add food between own below country plant last school father keep tree never start city earth eye light thought head under story saw left don't few while along might close something seem next hard open example begin life always those both paper together got group often run important until children side feet car mile night walk white sea began grow took river four carry state once book hear stop without second late miss idea enough eat face watch far Indian really almost let above girl sometimes mountain cut young talk soon list song being leave family it's body music color stand sun questions fish area mark dog horse birds problem complete room knew since ever piece told usually didn't friends easy heard order red door sure become top ship across today during short better best however low hours black products happened whole measure remember early waves reached listen wind rock space covered fast several hold himself toward five step morning passed vowel true hundred against pattern numeral table north slowly money map farm pulled draw voice seen cold cried plan notice south sing war ground fall king town I'll unit figure certain field travel wood fire upon done English road half ten fly gave box finally wait correct oh quickly person became shown minutes strong verb stood front feel fact inches street decimal multiply nothing course stay wheel full force blue object decide surface deep moon island foot yet busy test record boat common gold possible plane stead dry wonder laugh thousands ago ran check game shape equate miles brought heat snow bring yes distant fill east paint language among grand ball yards dictionary glass grass cow ready act second hair behind ask men's clothes per gun smile drive stream solve mind rose burn bit tone flow weeks cent dress chief sit sum split rain summer wide sense contain oil's gas question fine differ through back work first learn thought good great where

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[0.00, A: I'm so excited about the new project we're working on. It's going to be a game-changer for our company.
B: I know, right? I've been thinking about it all day. I can't wait to get started.
A: Me neither. I've already started brainstorming some ideas. I think we could really make a difference.
B: That's great to hear. I'm glad you're so passionate about it.
A: Thanks. I just have a good feeling about this one.
B: I do too. I think we're going to be successful.
A: I hope so. I've been working really hard on it.
B: I know you have. You've been putting in a lot of effort.
A: Thanks. I appreciate that.
B: No problem. I'm just glad we're working together on this.
A: Me too. I think we make a great team.
B: I agree. We complement each other well.
A: Yeah, we do. I'm looking forward to seeing what we can accomplish.
B: Me too. I think we're going to do great things.
A: I hope so. I've been dreaming about it.
B: I know you have. You've been talking about it a lot.
A: Sorry about that. I just get really excited about things.
B: It's okay. I like your enthusiasm.
A: Thanks. I try to be positive.
B: You succeed. You're always so upbeat.
A: I try to be. I think it helps me get through the tough times.
B: I can imagine. It must be hard to stay positive when things are going wrong.
A: It is sometimes. But I try to remember that everything happens for a reason.
B: That's a good way to look at it. I'm going to try to remember that.
A: I hope it helps you. It helps me.
B: I'm sure it will. You're a very wise person.
A: Thanks. I try to be.
B: You succeed. You're always so helpful.
A: I try to be. I like to help people.
B: I can tell. You're very kind.
A: Thanks. I try to be.
B: You succeed. You're always so nice.
A: I try to be. I like to make people feel good.
B: I can tell. You're very thoughtful.
A: Thanks. I try to be.
B: You succeed. You're always so considerate.
A: I try to be. I like to think about other people.
B: I can tell. You're very empathetic.
A: Thanks. I try to be.
B: You succeed. You're always so understanding.
A: I try to be. I like to listen to people.
B: I can tell. You're very patient.
A: Thanks. I try to be.
B: You succeed. You're always so tolerant.
A: I try to be. I like to accept people for who they are.
B: I can tell. You're very open-minded.
A: Thanks. I try to be.
B: You succeed. You're always so accepting.
A: I try to be. I like to see the good in people.
B: I can tell. You're very optimistic.
A: Thanks. I try to be.
B: You succeed. You're always so hopeful.
A: I try to be. I like to believe that things will get better.
B: I can tell. You're very resilient.
A: Thanks. I try to be.
B: You succeed. You're always so strong.
A: I try to be. I like to overcome challenges.
B: I can tell. You're very determined.
A: Thanks. I try to be.
B: You succeed. You're always so persistent.
A: I try to be. I like to never give up.
B: I can tell. You're very courageous.
A: Thanks. I try to be.
B: You succeed. You're always so brave.
A: I try to be. I like to face my fears.
B: I can tell. You're very confident.
A: Thanks. I try to be.
B: You succeed. You're always so self-assured.
A: I try to be. I like to believe in myself.
B: I can tell. You're very independent.
A: Thanks. I try to be.
B: You succeed. You're always so self-reliant.
A: I try to be. I like to rely on myself.
B: I can tell. You're very resourceful.
A: Thanks. I try to be.
B: You succeed. You're always so clever.
A: I try to be. I like to find solutions to problems.
B: I can tell. You're very creative.
A: Thanks. I try to be.
B: You succeed. You're always so innovative.
A: I try to be. I like to think outside the box.
B: I can tell. You're very intelligent.
A: Thanks. I try to be.
B: You succeed. You're always so smart.
A: I try to be. I like to learn new things.
B: I can tell. You're very curious.
A: Thanks. I try to be.
B: You succeed. You're always so inquisitive.
A: I try to be. I like to ask questions.
B: I can tell. You're very analytical.
A: Thanks. I try to be.
B: You succeed. You're always so logical.
A: I try to be. I like to think things through.
B: I can tell. You're very rational.
A: Thanks. I try to be.
B: You succeed. You're always so reasonable.
A: I try to be. I like to be fair.
B: I can tell. You're very just.
A: Thanks. I try to be.
B: You succeed. You're always so righteous.
A: I try to be. I like to do the right thing.
B: I can tell. You're very moral.
A: Thanks. I try to be.
B: You succeed. You're always so ethical.
A: I try to be. I like to have integrity.
B: I can tell. You're very honest.
A: Thanks. I try to be.
B: You succeed. You're always so truthful.
A: I try to be. I like to tell the truth.
B: I can tell. You're very sincere.
A: Thanks. I try to be.
B: You succeed. You're always so genuine.
A: I try to be. I like to be myself.
B: I can tell. You're very authentic.
A: Thanks. I try to be.
B: You succeed. You're always so real.
A: I try to be. I like to be real.
B: I can tell. You're very down-to-earth.
A: Thanks. I try to be.
B: You succeed. You're always so humble.
A: I try to be. I like to be modest.
B: I can tell. You're very unassuming.
A: Thanks. I try to be.
B: You succeed. You're always so unpretentious.
A: I try to be. I like to be simple.
B: I can tell. You're very straightforward.
A: Thanks. I try to be.
B: You succeed. You're always so direct.
A: I try to be. I like to be clear.
B: I can tell. You're very concise.
A: Thanks. I try to be.
B: You succeed. You're always so brief.
A: I try to be. I like to be short.
B: I can tell. You're very succinct.
A: Thanks. I try to be.
B: You succeed. You're always so to the point.
A: I try to be. I like to get to the point.
B: I can tell. You're very efficient.
A: Thanks. I try to be.
B: You succeed. You're always so productive.
A: I try to be. I like to get things done.
B: I can tell. You're very organized.
A: Thanks. I try to be.
B: You succeed. You're always so orderly.
A: I try to be. I like to be neat.
B: I can tell. You're very tidy.
A: Thanks. I try to be.
B: You succeed. You're always so clean.
A: I try to be. I like to be clean.
B: I can tell. You're very hygienic.
A: Thanks. I try to be.
B: You succeed. You're always so healthy.
A: I try to be. I like to be healthy.
B: I can tell. You're very fit.
A: Thanks. I try to be.
B: You succeed. You're always so strong.
A: I try to be. I like to be strong.
B: I can tell. You're very muscular.
A: Thanks. I try to be.
B: You succeed. You're always so athletic.
A: I try to be. I like to be athletic.
B: I can tell. You're very coordinated.
A: Thanks. I try to be.
B: You succeed. You're always so graceful.
A: I try to be. I like to be graceful.
B: I can tell. You're very elegant.
A: Thanks. I try to be.
B: You succeed. You're always so refined.
A: I try to be. I like to be refined.
B: I can tell. You're very sophisticated.
A: Thanks. I try to be.
B: You succeed. You're always so cultured.
A: I try to be. I like to be cultured.
B: I can tell. You're very educated.
A: Thanks. I try to be.
B: You succeed. You're always so knowledgeable.
A: I try to be. I like to be knowledgeable.
B: I can tell. You're very wise.
A: Thanks. I try to be.
B: You succeed. You're always so sage.
A: I try to be. I like to be sage.
B: I can tell. You're very philosophical.
A: Thanks. I try to be.
B: You succeed. You're always so thoughtful.
A: I try to be. I like to be thoughtful.
B: I can tell. You're very reflective.
A: Thanks. I try to be.
B: You succeed. You're always so introspective.
A: I try to be. I like to be introspective.
B: I can tell. You're very self-aware.
A: Thanks. I try to be.
B: You succeed. You're always so conscious.
A: I try to be. I like to be conscious.
B: I can tell. You're very mindful.
A: Thanks. I try to be.
B: You succeed. You're always so aware.
A: I try to be. I like to be aware.
B: I can tell. You're very perceptive.
A: Thanks. I try to be.
B: You succeed. You're always so observant.
A: I try to be. I like to be observant.
B: I can tell. You're very attentive.
A: Thanks. I try to be.
B: You succeed. You're always so alert.
A: I try to be. I like to be alert.
B: I can tell. You're very vigilant.
A: Thanks. I try to be.
B: You succeed. You're always so watchful.
A: I try to be. I like to be watchful.
B: I can tell. You're very careful.
A: Thanks. I try to be.
B: You succeed. You're always so cautious.
A: I try to be. I like to be cautious.
B: I can tell. You're very prudent.
A: Thanks. I try to be.
B: You succeed. You're always so wise.
A: I try to be. I like to be wise.
B: I can tell. You're very judicious.
A: Thanks. I try to be.
B: You succeed. You're always so discerning.
A: I try to be. I like to be discerning.
B: I can tell. You're very perceptive.
A: Thanks. I try to be.
B: You succeed. You're always so insightful.
A: I try to be. I like to be insightful.
B: I can tell. You're very intuitive.
A: Thanks. I try to be.
B: You succeed. You're always so sensitive.
A: I try to be. I like to be sensitive.
B: I can tell. You're very empathetic.
A: Thanks. I try to be.
B: You succeed. You're always so compassionate.
A: I try to be. I like to be compassionate.
B: I can tell. You're very kind.
A: Thanks. I try to be.
B: You succeed. You're always so generous.
A: I try to be. I like to be generous.
B: I can tell. You're very giving.
A: Thanks. I try to be.
B: You succeed. You're always so charitable.
A: I try to be. I like to be charitable.
B: I can tell. You're very benevolent.
A: Thanks. I try to be.
B: You succeed. You're always so philanthropic.
A: I try to be. I like to be philanthropic.
B: I can tell. You're very altruistic.
A: Thanks. I try to be.
B: You succeed. You're always so selfless.
A: I try to be. I like to be selfless.
B: I can tell. You're very unselfish.
A: Thanks. I try to be.
B: You succeed. You're always so generous.
A: I try to be. I like to be generous.
B: I can tell. You're very magnanimous.
A: Thanks. I try to be.
B: You succeed. You're always so big-hearted.
A: I try to be. I like to be big-hearted.
B: I can tell. You're very warm-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so kind-hearted.
A: I try to be. I like to be kind-hearted.
B: I can tell. You're very tender-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so soft-hearted.
A: I try to be. I like to be soft-hearted.
B: I can tell. You're very gentle-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so mild-hearted.
A: I try to be. I like to be mild-hearted.
B: I can tell. You're very meek-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so humble-hearted.
A: I try to be. I like to be humble-hearted.
B: I can tell. You're very modest-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so unpretentious-hearted.
A: I try to be. I like to be unpretentious-hearted.
B: I can tell. You're very simple-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so straightforward-hearted.
A: I try to be. I like to be straightforward-hearted.
B: I can tell. You're very direct-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so clear-hearted.
A: I try to be. I like to be clear-hearted.
B: I can tell. You're very concise-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so brief-hearted.
A: I try to be. I like to be brief-hearted.
B: I can tell. You're very succinct-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so to the point-hearted.
A: I try to be. I like to be to the point-hearted.
B: I can tell. You're very efficient-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so productive-hearted.
A: I try to be. I like to be productive-hearted.
B: I can tell. You're very organized-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so orderly-hearted.
A: I try to be. I like to be orderly-hearted.
B: I can tell. You're very neat-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so tidy-hearted.
A: I try to be. I like to be tidy-hearted.
B: I can tell. You're very clean-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so hygienic-hearted.
A: I try to be. I like to be hygienic-hearted.
B: I can tell. You're very healthy-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so fit-hearted.
A: I try to be. I like to be fit-hearted.
B: I can tell. You're very strong-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so muscular-hearted.
A: I try to be. I like to be muscular-hearted.
B: I can tell. You're very athletic-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so coordinated-hearted.
A: I try to be. I like to be coordinated-hearted.
B: I can tell. You're very graceful-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so elegant-hearted.
A: I try to be. I like to be elegant-hearted.
B: I can tell. You're very refined-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so sophisticated-hearted.
A: I try to be. I like to be sophisticated-hearted.
B: I can tell. You're very cultured-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so educated-hearted.
A: I try to be. I like to be educated-hearted.
B: I can tell. You're very knowledgeable-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so wise-hearted.
A: I try to be. I like to be wise-hearted.
B: I can tell. You're very sage-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so philosophical-hearted.
A: I try to be. I like to be philosophical-hearted.
B: I can tell. You're very thoughtful-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so reflective-hearted.
A: I try to be. I like to be reflective-hearted.
B: I can tell. You're very introspective-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so self-aware-hearted.
A: I try to be. I like to be self-aware-hearted.
B: I can tell. You're very conscious-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so mindful-hearted.
A: I try to be. I like to be mindful-hearted.
B: I can tell. You're very aware-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so perceptive-hearted.
A: I try to be. I like to be perceptive-hearted.
B: I can tell. You're very observant-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so attentive-hearted.
A: I try to be. I like to be attentive-hearted.
B: I can tell. You're very alert-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so vigilant-hearted.
A: I try to be. I like to be vigilant-hearted.
B: I can tell. You're very watchful-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so careful-hearted.
A: I try to be. I like to be careful-hearted.
B: I can tell. You're very cautious-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so prudent-hearted.
A: I try to be. I like to be prudent-hearted.
B: I can tell. You're very judicious-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so discerning-hearted.
A: I try to be. I like to be discerning-hearted.
B: I can tell. You're very perceptive-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so insightful-hearted.
A: I try to be. I like to be insightful-hearted.
B: I can tell. You're very intuitive-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so sensitive-hearted.
A: I try to be. I like to be sensitive-hearted.
B: I can tell. You're very empathetic-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so compassionate-hearted.
A: I try to be. I like to be compassionate-hearted.
B: I can tell. You're very kind-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so generous-hearted.
A: I try to be. I like to be generous-hearted.
B: I can tell. You're very giving-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so charitable-hearted.
A: I try to be. I like to be charitable-hearted.
B: I can tell. You're very benevolent-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so philanthropic-hearted.
A: I try to be. I like to be philanthropic-hearted.
B: I can tell. You're very altruistic-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so selfless-hearted.
A: I try to be. I like to be selfless-hearted.
B: I can tell. You're very unselfish-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so generous-hearted.
A: I try to be. I like to be generous-hearted.
B: I can tell. You're very magnanimous-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so big-hearted-hearted.
A: I try to be. I like to be big-hearted-hearted.
B: I can tell. You're very warm-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so kind-hearted-hearted.
A: I try to be. I like to be kind-hearted-hearted.
B: I can tell. You're very tender-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so soft-hearted-hearted.
A: I try to be. I like to be soft-hearted-hearted.
B: I can tell. You're very gentle-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so mild-hearted-hearted.
A: I try to be. I like to be mild-hearted-hearted.
B: I can tell. You're very meek-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so humble-hearted-hearted.
A: I try to be. I like to be humble-hearted-hearted.
B: I can tell. You're very modest-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so unpretentious-hearted-hearted.
A: I try to be. I like to be unpretentious-hearted-hearted.
B: I can tell. You're very simple-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so straightforward-hearted-hearted.
A: I try to be. I like to be straightforward-hearted-hearted.
B: I can tell. You're very direct-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so clear-hearted-hearted.
A: I try to be. I like to be clear-hearted-hearted.
B: I can tell. You're very concise-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so brief-hearted-hearted.
A: I try to be. I like to be brief-hearted-hearted.
B: I can tell. You're very succinct-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so to the point-hearted-hearted.
A: I try to be. I like to be to the point-hearted-hearted.
B: I can tell. You're very efficient-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so productive-hearted-hearted.
A: I try to be. I like to be productive-hearted-hearted.
B: I can tell. You're very organized-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so orderly-hearted-hearted.
A: I try to be. I like to be orderly-hearted-hearted.
B: I can tell. You're very neat-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so tidy-hearted-hearted.
A: I try to be. I like to be tidy-hearted-hearted.
B: I can tell. You're very clean-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so hygienic-hearted-hearted.
A: I try to be. I like to be hygienic-hearted-hearted.
B: I can tell. You're very healthy-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so fit-hearted-hearted.
A: I try to be. I like to be fit-hearted-hearted.
B: I can tell. You're very strong-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so muscular-hearted-hearted.
A: I try to be. I like to be muscular-hearted-hearted.
B: I can tell. You're very athletic-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so coordinated-hearted-hearted.
A: I try to be. I like to be coordinated-hearted-hearted.
B: I can tell. You're very graceful-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so elegant-hearted-hearted.
A: I try to be. I like to be elegant-hearted-hearted.
B: I can tell. You're very refined-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so sophisticated-hearted-hearted.
A: I try to be. I like to be sophisticated-hearted-hearted.
B: I can tell. You're very cultured-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so educated-hearted-hearted.
A: I try to be. I like to be educated-hearted-hearted.
B: I can tell. You're very knowledgeable-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so wise-hearted-hearted.
A: I try to be. I like to be wise-hearted-hearted.
B: I can tell. You're very sage-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so philosophical-hearted-hearted.
A: I try to be. I like to be philosophical-hearted-hearted.
B: I can tell. You're very thoughtful-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so reflective-hearted-hearted.
A: I try to be. I like to be reflective-hearted-hearted.
B: I can tell. You're very introspective-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so self-aware-hearted-hearted.
A: I try to be. I like to be self-aware-hearted-hearted.
B: I can tell. You're very conscious-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so mindful-hearted-hearted.
A: I try to be. I like to be mindful-hearted-hearted.
B: I can tell. You're very aware-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so perceptive-hearted-hearted.
A: I try to be. I like to be perceptive-hearted-hearted.
B: I can tell. You're very observant-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so attentive-hearted-hearted.
A: I try to be. I like to be attentive-hearted-hearted.
B: I can tell. You're very alert-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so vigilant-hearted-hearted.
A: I try to be. I like to be vigilant-hearted-hearted.
B: I can tell. You're very watchful-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so careful-hearted-hearted.
A: I try to be. I like to be careful-hearted-hearted.
B: I can tell. You're very cautious-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so prudent-hearted-hearted.
A: I try to be. I like to be prudent-hearted-hearted.
B: I can tell. You're very judicious-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so discerning-hearted-hearted.
A: I try to be. I like to be discerning-hearted-hearted.
B: I can tell. You're very perceptive-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so insightful-hearted-hearted.
A: I try to be. I like to be insightful-hearted-hearted.
B: I can tell. You're very intuitive-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so sensitive-hearted-hearted.
A: I try to be. I like to be sensitive-hearted-hearted.
B: I can tell. You're very empathetic-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so compassionate-hearted-hearted.
A: I try to be. I like to be compassionate-hearted-hearted.
B: I can tell. You're very kind-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so generous-hearted-hearted.
A: I try to be. I like to be generous-hearted-hearted.
B: I can tell. You're very giving-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so charitable-hearted-hearted.
A: I try to be. I like to be charitable-hearted-hearted.
B: I can tell. You're very benevolent-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so philanthropic-hearted-hearted.
A: I try to be. I like to be philanthropic-hearted-hearted.
B: I can tell. You're very altruistic-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so selfless-hearted-hearted.
A: I try to be. I like to be selfless-hearted-hearted.
B: I can tell. You're very unselfish-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so generous-hearted-hearted.
A: I try to be. I like to be generous-hearted-hearted.
B: I can tell. You're very magnanimous-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so big-hearted-hearted-hearted.
A: I try to be. I like to be big-hearted-hearted-hearted.
B: I can tell. You're very warm-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so kind-hearted-hearted-hearted.
A: I try to be. I like to be kind-hearted-hearted-hearted.
B: I can tell. You're very tender-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so soft-hearted-hearted-hearted.
A: I try to be. I like to be soft-hearted-hearted-hearted.
B: I can tell. You're very gentle-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so mild-hearted-hearted-hearted.
A: I try to be. I like to be mild-hearted-hearted-hearted.
B: I can tell. You're very meek-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so humble-hearted-hearted-hearted.
A: I try to be. I like to be humble-hearted-hearted-hearted.
B: I can tell. You're very modest-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so unpretentious-hearted-hearted-hearted.
A: I try to be. I like to be unpretentious-hearted-hearted-hearted.
B: I can tell. You're very simple-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so straightforward-hearted-hearted-hearted.
A: I try to be. I like to be straightforward-hearted-hearted-hearted.
B: I can tell. You're very direct-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so clear-hearted-hearted-hearted.
A: I try to be. I like to be clear-hearted-hearted-hearted.
B: I can tell. You're very concise-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so brief-hearted-hearted-hearted.
A: I try to be. I like to be brief-hearted-hearted-hearted.
B: I can tell. You're very succinct-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so to the point-hearted-hearted-hearted.
A: I try to be. I like to be to the point-hearted-hearted-hearted.
B: I can tell. You're very efficient-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so productive-hearted-hearted-hearted.
A: I try to be. I like to be productive-hearted-hearted-hearted.
B: I can tell. You're very organized-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so orderly-hearted-hearted-hearted.
A: I try to be. I like to be orderly-hearted-hearted-hearted.
B: I can tell. You're very neat-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so tidy-hearted-hearted-hearted.
A: I try to be. I like to be tidy-hearted-hearted-hearted.
B: I can tell. You're very clean-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so hygienic-hearted-hearted-hearted.
A: I try to be. I like to be hygienic-hearted-hearted-hearted.
B: I can tell. You're very healthy-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so fit-hearted-hearted-hearted.
A: I try to be. I like to be fit-hearted-hearted-hearted.
B: I can tell. You're very strong-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so muscular-hearted-hearted-hearted.
A: I try to be. I like to be muscular-hearted-hearted-hearted.
B: I can tell. You're very athletic-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so coordinated-hearted-hearted-hearted.
A: I try to be. I like to be coordinated-hearted-hearted-hearted.
B: I can tell. You're very graceful-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so elegant-hearted-hearted-hearted.
A: I try to be. I like to be elegant-hearted-hearted-hearted.
B: I can tell. You're very refined-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so sophisticated-hearted-hearted-hearted.
A: I try to be. I like to be sophisticated-hearted-hearted-hearted.
B: I can tell. You're very cultured-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so educated-hearted-hearted-hearted.
A: I try to be. I like to be educated-hearted-hearted-hearted.
B: I can tell. You're very knowledgeable-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so wise-hearted-hearted-hearted.
A: I try to be. I like to be wise-hearted-hearted-hearted.
B: I can tell. You're very sage-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so philosophical-hearted-hearted-hearted.
A: I try to be. I like to be philosophical-hearted-hearted-hearted.
B: I can tell. You're very thoughtful-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so reflective-hearted-hearted-hearted.
A: I try to be. I like to be reflective-hearted-hearted-hearted.
B: I can tell. You're very introspective-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so self-aware-hearted-hearted-hearted.
A: I try to be. I like to be self-aware-hearted-hearted-hearted.
B: I can tell. You're very conscious-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so mindful-hearted-hearted-hearted.
A: I try to be. I like to be mindful-hearted-hearted-hearted.
B: I can tell. You're very aware-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so perceptive-hearted-hearted-hearted.
A: I try to be. I like to be perceptive-hearted-hearted-hearted.
B: I can tell. You're very observant-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so attentive-hearted-hearted-hearted.
A: I try to be. I like to be attentive-hearted-hearted-hearted.
B: I can tell. You're very alert-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so vigilant-hearted-hearted-hearted.
A: I try to be. I like to be vigilant-hearted-hearted-hearted.
B: I can tell. You're very watchful-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so careful-hearted-hearted-hearted.
A: I try to be. I like to be careful-hearted-hearted-hearted.
B: I can tell. You're very cautious-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so prudent-hearted-hearted-hearted.
A: I try to be. I like to be prudent-hearted-hearted-hearted.
B: I can tell. You're very judicious-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so discerning-hearted-hearted-hearted.
A: I try to be. I like to be discerning-hearted-hearted-hearted.
B: I can tell. You're very perceptive-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so insightful-hearted-hearted-hearted.
A: I try to be. I like to be insightful-hearted-hearted-hearted.
B: I can tell. You're very intuitive-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so sensitive-hearted-hearted-hearted.
A: I try to be. I like to be sensitive-hearted-hearted-hearted.
B: I can tell. You're very empathetic-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so compassionate-hearted-hearted-hearted.
A: I try to be. I like to be compassionate-hearted-hearted-hearted.
B: I can tell. You're very kind-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so generous-hearted-hearted-hearted.
A: I try to be. I like to be generous-hearted-hearted-hearted.
B: I can tell. You're very giving-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so charitable-hearted-hearted-hearted.
A: I try to be. I like to be charitable-hearted-hearted-hearted.
B: I can tell. You're very benevolent-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so philanthropic-hearted-hearted-hearted.
A: I try to be. I like to be philanthropic-hearted-hearted-hearted.
B: I can tell. You're very altruistic-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so selfless-hearted-hearted-hearted.
A: I try to be. I like to be selfless-hearted-hearted-hearted.
B: I can tell. You're very unselfish-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so generous-hearted-hearted-hearted.
A: I try to be. I like to be generous-hearted-hearted-hearted.
B: I can tell. You're very magnanimous-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so big-hearted-hearted-hearted-hearted.
A: I try to be. I like to be big-hearted-hearted-hearted-hearted.
B: I can tell. You're very warm-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so kind-hearted-hearted-hearted-hearted.
A: I try to be. I like to be kind-hearted-hearted-hearted-hearted.
B: I can tell. You're very tender-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so soft-hearted-hearted-hearted-hearted.
A: I try to be. I like to be soft-hearted-hearted-hearted-hearted.
B: I can tell. You're very gentle-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so mild-hearted-hearted-hearted-hearted.
A: I try to be. I like to be mild-hearted-hearted-hearted-hearted.
B: I can tell. You're very meek-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so humble-hearted-hearted-hearted-hearted.
A: I try to be. I like to be humble-hearted-hearted-hearted-hearted.
B: I can tell. You're very modest-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so unpretentious-hearted-hearted-hearted-hearted.
A: I try to be. I like to be unpretentious-hearted-hearted-hearted-hearted.
B: I can tell. You're very simple-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so straightforward-hearted-hearted-hearted-hearted.
A: I try to be. I like to be straightforward-hearted-hearted-hearted-hearted.
B: I can tell. You're very direct-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so clear-hearted-hearted-hearted-hearted.
A: I try to be. I like to be clear-hearted-hearted-hearted-hearted.
B: I can tell. You're very concise-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so brief-hearted-hearted-hearted-hearted.
A: I try to be. I like to be brief-hearted-hearted-hearted-hearted.
B: I can tell. You're very succinct-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so to the point-hearted-hearted-hearted-hearted.
A: I try to be. I like to be to the point-hearted-hearted-hearted-hearted.
B: I can tell. You're very efficient-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so productive-hearted-hearted-hearted-hearted.
A: I try to be. I like to be productive-hearted-hearted-hearted-hearted.
B: I can tell. You're very organized-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so orderly-hearted-hearted-hearted-hearted.
A: I try to be. I like to be orderly-hearted-hearted-hearted-hearted.
B: I can tell. You're very neat-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so tidy-hearted-hearted-hearted-hearted.
A: I try to be. I like to be tidy-hearted-hearted-hearted-hearted.
B: I can tell. You're very clean-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so hygienic-hearted-hearted-hearted-hearted.
A: I try to be. I like to be hygienic-hearted-hearted-hearted-hearted.
B: I can tell. You're very healthy-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so fit-hearted-hearted-hearted-hearted.
A: I try to be. I like to be fit-hearted-hearted-hearted-hearted.
B: I can tell. You're very strong-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so muscular-hearted-hearted-hearted-hearted.
A: I try to be. I like to be muscular-hearted-hearted-hearted-hearted.
B: I can tell. You're very athletic-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so coordinated-hearted-hearted-hearted-hearted.
A: I try to be. I like to be coordinated-hearted-hearted-hearted-hearted.
B: I can tell. You're very graceful-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so elegant-hearted-hearted-hearted-hearted.
A: I try to be. I like to be elegant-hearted-hearted-hearted-hearted.
B: I can tell. You're very refined-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so sophisticated-hearted-hearted-hearted-hearted.
A: I try to be. I like to be sophisticated-hearted-hearted-hearted-hearted.
B: I can tell. You're very cultured-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so educated-hearted-hearted-hearted-hearted.
A: I try to be. I like to be educated-hearted-hearted-hearted-hearted.
B: I can tell. You're very knowledgeable-hearted-hearted-hearted-hearted.
A: Thanks. I try to be.
B: You succeed. You're always so wise-hearted-hearted-hearted-hearted.
A: I try to be. I like to be wise-hearted-hearted-hearted-

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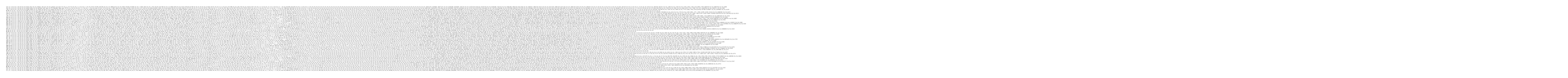

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try, kind, hand, picture, again, change, off, play, spell, air, away, animal, house, point, page, letter, mother, answer, found, study, still, learn, should, America, world, high, every, near, add, food, between, own, below, country, plant, last, school, father, keep, tree, never, start, city, earth, eye, light, thought, head, under, story, saw, left, don't, few, while, along, might, close, something, seem, next, hard, open, example, begin, life, always, those, both, paper, together, got, group, often, run, important, until, children, side, feet, car, mile, night, walk, white, sea, began, grow, took, river, four, carry, state, once, book, hear, stop, without, second, late, miss, idea, enough, eat, face, watch, far, Indian, really, almost, let, above, girl, sometimes, mountain, cut, young, talk, soon, list, song, being, leave, family, it's, body, music, color, stand, sun, questions, fish, area, mark, dog, horse, birds, problem, complete, room, knew, since, ever, piece, told, usually, didn't, friends, easy, heard, order, red, door, sure, become, top, ship, across, today, during, short, better, best, however, low, hours, black, products, happened, whole, measure, remember, early, waves, reached, listen, wind, rock, space, covered, fast, several, hold, himself, toward, five, step, morning, passed, vowel, true, hundred, against, pattern, numeral, table, north, slowly, money, map, farm, pulled, draw, voice, seen, cold, cried, plan, notice, south, sing, war, ground, fall, king, town, I'll, unit, figure, certain, field, travel, wood, fire, upon, done, English, road, halt, ten, fly, gave, box, finally, wait, correct, oh, quick, person, became, shown, minutes, strong, verb, stars, front, feel, fact, inches, street, decimal, multiply, nothing, course, stay, wheel, full, force, blue, object, decide, surface, deep, moon, island, foot, yet, busy, test, record, boat, common, gold, possible, plane, age, dry, wonder, laughed, thousands, ago, ran, check, game, shape, yes, hot, miles, brought, heat, snow, bring, chair, stood, hear, alone, dark, undred, ready, cannot, forest, clear, recent, sail, size, dance, match, broad, fight, coast, exact, maybe, suddenly, sent, experience, shall, received, rule, pair, rather, fell, lead, wire, blood, oil, blow, cell, gas, penny, lay, planet, cross, watch, ear, join, x, solve, minute, score, direct, west, weight, wave, hill, cent, ship, chief, dress, clothes, arm, poor, lot, temperature, suggested, bottom, trade, melody, trip, offer, hour, drive, sharp, either, lake, terrible, nor, self, test, sand, sky, broke, beautiful, kept, hair, smile, win, skin, roll, bread, rain, ran, so, fun, test, dictionary, gray, beat, tube, market, tired, control, equal, pupil, quiet, bad, flow, learn, metal, valley, eight, sleep, symbol, modern, corner, mine, famous, dead, pound, rose, climb, sugar, suit, lost, lesson, sell, sent, tall, exercise, nine, trouble, cook, break, quite, dear, drop, stone, nose, teeth, dollar, fear, pay, sight, multiply, store, cause, audience, matter, eight, sea, section, difficult, mouth, operate, teacher, allow, print, speed, man, human, history, effect, touch, soil, industry, cover, mountain, contain, paint, observe, religious, guide, flat, interest, heavy, wash, events, silent, wild, invented, defined, cattle, blank, garden, bought, original, rubber, special, gentle, woman, captain, solution, mass, dinner, bar, search, market, rice, pipe, coal, valuable, gun, serve, moment, tropical, spot, desert, trouble, hot, populate, method, observe, kill, West, row, population, flow, soft, modern, element, hunt, obtain, stick, fruit, tone, throw, cabin, duck, live, metal, water, dry, capital, speak, mix, interest, difficult, wife, sold, atom, skin, sent, match, fraction, spring, fly, spread, chart, man, arrive, poor, flight, wrote, level, bell, inch, sun, cry, throat, determine, chair, solve, wall, hill, sail, large, enough, plain, girl, dance, populate, express, rich, gone, lone, block, check, shoe, shoulder, spread, arrange, camp, invent, cotton, born, determine, quart, nine, truck, noise, level, chance, gather, shop, stretch, throw, shine, property, column, molecule, select, wrong, gray, repeat, require, broad, prepare, salt, nose, plural, anger, claim, continent, oxygen, sugar, death, pretty, skill, women, season, solution, magnet, silver, thank, branch, match, suffix, especially, fig, afraid, huge, sister, steel, discuss, forward, similar, guide, experience, score, apple, bought, led, pitch, coat, mass, card, band, rope, slip, win, dream, evening, condition, feed, tool, total, basic, smell, valley, nor, double, seat, arrive, master, track, parent, shore, division, sheet, substance, favor, connect, post, spend, chord, fat, glad, original, share, station, dad, bread, charge, proper, bar, offer, segment, slave, duck, instant, market, degree, populate, chick, dear, enemy, reply, drink, occur, support, speech, nature, range, steam, motion, path, liquid, log, meant, quotient, teeth, shell, neck

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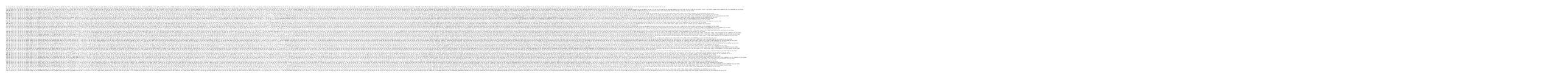

Mar 19 12:12:12 ip-10-100-4-249 sshd[1]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:12:13 ip-10-100-4-249 sshd[2]: Failed password for root from 203.0.113.10 port 22 ssh2
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Mar 19 12:16:42 ip-10-100-4-249 sshd[271]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:43 ip-10-100-4-249 sshd[272]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:44 ip-10-100-4-249 sshd[273]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:45 ip-10-100-4-249 sshd[274]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:46 ip-10-100-4-249 sshd[275]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:47 ip-10-100-4-249 sshd[276]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:48 ip-10-100-4-249 sshd[277]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:49 ip-10-100-4-249 sshd[278]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:50 ip-10-100-4-249 sshd[279]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:51 ip-10-100-4-249 sshd[280]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:52 ip-10-100-4-249 sshd[281]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:53 ip-10-100-4-249 sshd[282]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:54 ip-10-100-4-249 sshd[283]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:55 ip-10-100-4-249 sshd[284]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:56 ip-10-100-4-249 sshd[285]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:57 ip-10-100-4-249 sshd[286]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:58 ip-10-100-4-249 sshd[287]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:16:59 ip-10-100-4-249 sshd[288]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:17:00 ip-10-100-4-249 sshd[289]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:17:01 ip-10-100-4-249 sshd[290]: Failed password for root from 203.0.113.10 port 22 ssh2
Mar 19 12:17:02 ip-10-100-4-249 sshd[291]: Failed password for root from 203.0.113.10 port 22

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Mon Jan 1 00:00:00 2018 Info: Starting Sophos Endpoint Agent
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Version: 2.0.0.0
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build: 2.0.0.0
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Date: Jan 1 2018
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Time: 00:00:00
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Type: Release
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Platform: Windows
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Architecture: x64
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Compiler: MSVC
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Compiler Version: 19.00.24215.1
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Configuration: Release
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Flags: /O2 /Ob2 /DNDEBUG /DWIN32 /D_WINDOWS /GR /EHsc /MD /W3 /nologo /c /Zi /TP /errorReport:prompt
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Linker Flags: /machine:x64 /nologo /errorReport:prompt
Mon Jan 1 00:00:00 2018 Info: Sophos Endpoint Agent Build Linker Version: 14.00.24215.1

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[1] A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MM MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NN NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ AAA AAB AAC AAD AAE AAF AAG AAH AAI AAJ AAK AAL AAM AAN AAO AAP AAQ AAR AAS AAT AAU AAV AAW AAX AAY AAZ ABA ABB ABC ABD ABE ABF ABG ABH ABI ABJ ABK ABL ABM ABN ABO ABP ABQ ABR ABS ABT ABU ABV ABW ABX ABY ABZ ACA ACB ACC ACD ACE ACF ACG ACH ACI ACJ ACK ACL ACM ACN ACO ACP ACQ ACR ACS ACT ACU ACV ACW ACX ACY ACZ ADA ADB ADC ADD ADE ADF ADG ADH ADI ADJ ADK ADL ADM ADN ADO ADP ADQ ADR ADS ADT ADU ADV ADW ADX ADY ADZ AEA AEB AEC AED AEE AEF AEG AEH AEI AEJ AEK AEL AEM AEN AEO AEP AEQ AER AES AET AEU AEV AEW AEX AEY AEZ AFA AFB AFC AFD AFE AFF AFG AFH AFI AFJ AFK AFL AFM AFN AFO AFP AFQ AFR AFS AFT AFU AFV AFW AFX AFY AFZ AGA AGB AGC AGD AGE AGF AGG AGH AGI AGJ AGK AGL AGM AGN AGO AGP AGQ AGR AGS AGT AGU AGV AGW AGX AGY AGZ AHA AHB AHC AHD AHE AHF AHG AHH AHI AHJ AHK AHL AHM AHN AHO AHP AHQ AHR AHS AHT AHU AHV AHW AHX AHY AHZ AIA AIB AIC AID AIE AIF AIG AIH AII AIJ AIK AIL AIM AIN AIO AIP AIQ AIR AIS AIT AIU AIV AIW AIX AIY AIZ AJA AJB AJC AJD AJE AJF AJG AJH AJI AJJ AJK AJL AJM AJN AJO AJP AJQ AJR AJS AJT AJU AJV AJW AJX AJY AJZ AKA AKB AKC AKD AKE AKF AKG AKH AKI AKJ AKK AKL AKM AKN AKO AKP AKQ AKR AKS AKT AKU AKV AKW AKX AKY AKZ ALA ALB ALC ALD ALE ALF ALG ALH ALI ALJ ALK ALL ALM ALN ALO ALP ALQ ALR ALS ALT ALU ALV ALW ALX ALY ALZ AMA AMB AMC AMD AME AMF AMG AMH AMI AMJ AMK AML AMM AMN AMO AMP AMQ AMR AMS AMT AMU AMV AMW AMX AMY AMZ ANA ANB ANC AND ANE ANF ANG ANH ANI ANJ ANK ANL ANM ANN ANO ANP ANQ ANR ANS ANT ANU ANV ANW ANX ANY ANZ AOA AOB AOC AOD AOE AOF AOG AOH AOI AOJ AOK AOL AOM AON AOO AOP AOQ AOR AOS AOT AOU AOV AOW AOX AOY AOZ APA APB APC APD APE APF APG APH API APJ APK APL APM APN APO APP APQ APR APS APT APU APV APW APX APY APZ AQA AQB AQC AQD AQE AQF AQG AQH AQI AQJ AQK AQL AQM AQN AQO AQP AQQ AQR AQS AQT AQU AQV AQW AQX AQY AQZ ARA ARB ARC ARD ARE ARF ARG ARH ARI ARJ ARK ARL ARM ARN ARO ARP ARQ ARR ARS ART ARU ARV ARW ARX ARY ARZ ASA ASB ASC ASD ASE ASF ASG ASH ASI ASJ ASK ASL ASM ASN ASO ASP ASQ ASR ASS AST ASU ASV ASW ASX ASY ASZ ATA ATB ATC ATD ATE ATF ATG ATH ATI ATJ ATK ATL ATM ATN ATO ATP ATQ ATR ATS ATT ATU ATV ATW ATX ATY ATZ AUA AUB AUC AUD AUE AUF AUG AUH AUI AUJ AUK AUL AUM AUN AUO AUP AUQ AUR AUS AUT AUU AUV AUW AUX AUY AUZ AVA AVB AVC AVD AVE AVF AVG AVH AVI AVJ AVK AVL AVM AVN AVO AVP AVQ AVR AVS AVT AVU AVV AVW AVX AVY AVZ AWA AWB AWC AWD AWE AWF AWG AWH AWI AWJ AWK AWL AWM AWN AWO AWP AWQ AWR AWS AWT AWU AWV AWW AWX AWY AWZ AXA AXB AXC AXD AXE AXF AXG AXH AXI AXJ AXK AXL AXM AXN AXO AXP AXQ AXR AXS AXT AXU AXV AXW AXX AXY AXZ AYA AYB AYC AYD AYE AYF AYG AYH AYI AYJ AYK AYL AYM AYN AYO AYP AYQ AYR AYS AYT AYU AYV AYW AYX AYY AYZ AZA AZB AZC AZD AZE AZF AZG AZH AZI AZJ AZK AZL AZM AZN AZO AZP AZQ AZR AZS AZT AZU AZV AZW AZX AZY AZZ BAA BAB BAC BAD BAE BAF BAG BAH BAI BAJ BAK BAL BAM BAN BAO BAP BAQ BAR BAS BAT BAU BAV BAW BAX BAY BAZ BBA BBB BBC BBD BBE BBF BBG BBH BBI BBJ BBK BBL BBM BBN BBO BBP BBQ BBR BBS BBT BBU BBV BBW BBX BBY BBZ BCA BCB BCC BCD BCE BCF BCG BCH BCI BCJ BCK BCL BCM BCN BCO BCP BCQ BCR BCS BCT BCU BCV BCW BCX BCY BCZ BDA BDB BDC BDD BDE BDF BDG BDH BDI BDJ BDK BDL BDM BDN BDO BDP BDQ BDR BDS BDT BDU BDV BDW BDX BDY BDZ BEA BEB BEC BED BEE BEF BEG BEH BEI BEJ BEK BEL BEM BEN BEO BEP BEQ BER BES BET BEU BEV BEW BEX BEY BEZ BFA BFB BFC BFD BFE BFF BFG BFH BFI BFJ BFK BFL BFM BFN BFO BFP BFQ BFR BFS BFT BFU BFV BFW BFX BFY BFZ BGA BGB BGC BGD BGE BGF BGG BGH BGI BGJ BGK BGL BGM BGN BGO BGP BGQ BGR BGS BGT BGU BGV BGW BGX BGY BGZ BHA BHB BHC BHD BHE BHF BHG BHH BHI BHJ BHK BHL BHM BHN BHO BHP BHQ BHR BHS BHT BHU BHV BHW BHX BHY BHZ BIA BIB BIC BID BIE BIF BIG BIH BII BIJ BIK BIL BIM BIN BIO BIP BIQ BIR BIS BIT BIU BIV BIW BIX BIY BIZ BJA BJB BJC BJD BJE BJF BJG BJH BJI BJJ BJK BJL BJM BJN BJO BJP BJQ BJR BJS BJT BJU BJV BJW BJX BJY BJZ BKA BKB BKC BKD BKE BKF BKG BKH BKI BKJ BKK BKL BKM BKN BKO BKP BKQ BKR BKS BKT BKU BKV BKW BKX BKY BKZ BLA BLB BLC BLD BLE BLF BLG BLH BLI BLJ BLK BLL BLM BLN BLO BLP BLQ BLR BLS BLT BLU BLV BLW BLX BLY BLZ BMA BMB BMC BMD BME BMF BMG BMH BMI BMJ BMK BML BMM BMN BMO BMP BMQ BMR BMS BMT BMU BMV BMW BMX BMY BMZ BNA BNB BNC BND BNE BNF BNG BNH BNI BNJ BNK BNL BNM BNN BNO BNP BNQ BNR BNS BNT BNU BNV BNW BNX BNY BNZ BOA BOB BOC BOD BOE BOF BOG BOH BOI BOJ BOK BOL BOM BON BOO BOP BOQ BOR BOS BOT BOU BOV BOW BOX BOY BOZ BPA BPB BPC BPD BPE BPF BPG BPH BPI BPJ BPK BPL BPM BPN BPO BPP BPQ BPR BPS BPT BPU BPV BPW BPX BPY BPZ BQA BQB BQC BQD BQE BQF BQG BQH BQI BQJ BQK BQL BQM BQN BQO BQP BQQ BQR BQS BQT BQU BQV BQW BQX BQY BQZ BRA BRB BRC BRD BRE BRF BRG BRH BRI BRJ BRK BRL BRM BRN BRO BRP BRQ BRR BRS BRT BRU BRV BRW BRX BRY BRZ BSA BSB BSC BSD BSE BSF BSG BSH BSI BSJ BSK BSL BSM BSN BSO BSP BSQ BSR BSS BST BSU BSV BSW BSX BSY BSZ BTA BTB BTC BTD BTE BTF BTG BTH BTI BTJ BTK BTL BTM BTN BTO BTP BTQ BTR BTS BTT BTU BTV BTW BTX BTY BTZ BUA BUB BUC BUD BUE BUF BUG BUH BUI BUJ BUK BUL BUM BUN BUO BUP BUQ BUR BUS BUT BUU BUV BUW BUX BUY BUZ BVA BVB BVC BVD BVE BVF BVG BVH BVI BVJ BVK BVL BVM BVN BVO BVP BVQ BVR BVS BVT BVU BVV BVW BVX BVY BVZ BWA BWB BWC BWD BWE BWF BWG BWH BWI BWJ BWK BWL BWM BWN BWO BWP BWQ BWR BWS BWT BWU BWV BWW BWX BWY BWZ BXA BXB BXC BXD BXE BXF BXG BXH BXI BXJ BXK BXL BXM BXN BXO BXP BXQ BXR BXS BXT BXU BXV BXW BXX BXY BXZ BYA BYB BYC BYD BYE BYF BYG BYH BYI BYJ BYK BYL BYM BYN BYO BYP BYQ BYR BYS BYT BYU BYV BYW BYX BYY BYZ BZA BZB BZC BZD BZE BZF BZG BZH BZI BZJ BZK BZL BZM BZN BZO BZP BZQ BZR BZS BZT BZU BZV BZW BZX BZY BZZ CAA CAB CAC CAD CAE CAF CAG CAH CAI CAJ CAK CAL CAM CAN CAO CAP CAQ CAR CAS CAT CAU CAV CAW CAX CAY CAZ CBA CBB CBC CBD CBE CBF CBG CBH CBI CBJ CBK CBL CBM CBN CBO CBP CBQ CBR CBS CBT CBU CBV CBW CBX CBY CBZ CCA CCB CCC CCD CCE CCF CCG CCH CCI CCJ CCK CCL CCM CCN CCO CCP CCQ CCR CCS CCT CCU CCV CCW CCX CCY CCZ CDA CDB CDC CDD CDE CDF CDG CDH CDI CDJ CDK CDL CDM CDN CDO CDP CDQ CDR CDS CDT CDU CDV CDW CDX CDY CDZ CEA CEB CEC CED CEE CEF CEG CEH CEI CEJ CEK CEL CEM CEN CEO CEP CEQ CER CES CET CEU CEV CEW CEX CEY CEZ CFA CFB CFC CFD CFE CFF CFG CFH CFI CFJ CFK CFL CFM CFN CFO CFP CFQ CFR CFS CFT CFU CFV CFW CFX CFY CFZ CGA CGB CGC CGD CGE CGF CGG CGH CGI CGJ CGK CGL CGM CGN CGO CGP CGQ CGR CGS CGT CGU CGV CGW CGX CGY CGZ CHA CHB CHC CHD CHE CHF CHG CHH CHI CHJ CHK CHL CHM CHN CHO CHP CHQ CHR CHS CHT CHU CHV CHW CHX CHY CHZ CIA CIB CIC CID CIE CIF CIG CIH CII CIJ CIK CIL CIM CIN CIO CIP CIQ CIR CIS CIT CIU CIV CIW CIX CIY CIZ CJA CJB CJC CJD CJE CJF CJG CJH CJI CJJ CJK CJL CJM CJN CJO CJP CJQ CJR CJS CJT CJU CJV CJW CJX CJY CJZ CKA CKB CKC CKD CKE CKF CKG CKH CKI CKJ CKK CKL CKM CKN CKO CKP CKQ CKR CKS CKT CKU CKV CKW CKX CKY CKZ CLA CLB CLC CLD CLE CLF CLG CLH CLI CLJ CLK CLL CLM CLN CLO CLP CLQ CLR CLS CLT CLU CLV CLW CLX CLY CLZ CMA CMB CMC CMD CME CMF CMG CMH CMI CMJ CMK CML CMM CMN CMO CMP CMQ CMR CMS CMT CMU CMV CMW CMX CMY CMZ CNA CNB CNC CND CNE CNF CNG CNH CNI CNJ CNK CNL CNM CNN CNO CNP CNQ CNR CNS CNT CNU CNV CNW CNX CNY CNZ COA COB COC COD COE COF COG COH COI COJ COK COL COM CON COO COP COQ COR COS COT COU COV COW COX COY COZ CPA CPB CPC CPD CPE CPF CPG CPH CPI CPJ CPK CPL CPM CPN CPO CPP CPQ CPR CPS CPT CPU CPV CPW CPX CPY CPZ CQA CQB CQC CQD CQE CQF CQG CQH CQI CQJ CQK CQL CQM CQN CQO CQP CQQ CQR CQS CQT CQU CQV CQW CQX CQY CQZ CRA CRB CRC CRD CRE CRF CRG CRH CRI CRJ CRK CRL CRM CRN CRO CRP CRQ CRR CRS CRT CRU CRV CRW CRX CRY CRZ CSA CSB CSC CSD CSE CSF CSG CSH CSI CSJ CSK CSL CSM CSN CSO CSP CSQ CSR CSS CST CSU CSV CSW CSX CSY CSZ CTA CTB CTC CTD CTE CTF CTG CTH CTI CTJ CTK CTL CTM CTN CTO CTP CTQ CTR CTS CTT CTU CTV CTW CTX CTY CTZ CUA CUB CUC CUD CUE CUF CUG CUH CUI CUJ CUK CUL CUM CUN CUO CUP CUQ CUR CUS CUT CUU CUV CUW CUX CUY CUZ CVA CVB CVC CVD CVE CVF CVG CVH CVI CVJ CVK CVL CVM CVN CVO CVP CVQ CVR CVS CVT CVU CVV CVW CVX CVY CVZ CWA CWB CWC CWD CWE CWF CWG CWH CWI CWJ CWK CWL CWM CWN CWO CWP CWQ CWR CWS CWT CWU CWV CWW CWX CWY CWZ CXA CXB CXC CXD CXE CXF CXG CXH CXI CXJ CXK CXL CXM CXN CXO CXP CXQ CXR CXS CXT CXU CXV CXW CXX CXY CXZ CYA CYB CYC CYD CYE CYF CYG CYH CYI CYJ CYK CYL CYM CYN CYO CYP CYQ CYR CYS CYT CYU CYV CYW CYX CYY CYZ CZA CZB CZC CZD CZE CZF CZG CZH CZI CZJ CZK CZL CZM CZN CZO CZP CZQ CZR CZS CZT CZU CZV CZW CZX CZY CZZ DAA DAB DAC DAD DAE DAF DAG DAH DAI DAJ DAK DAL DAM DAN DAO DAP DAQ DAR DAS DAT DAU DAV DAW DAX DAY DAZ DBA DBB DBC DBD DBE DBF DBG DBH DBI DBJ DBK DBL DBM DBN DBO DBP DBQ DBR DBS DBT DBU DBV DBW DBX DBY DBZ DCA DCB DCC DCD DCE DCF DCG DCH DCI DCJ DCK DCL DCM DCN DCO DCP DCQ DCR DCS DCT DCU DCV DCW DCX DCY DCZ DDA DDB DDC DDD DDE DDF DDG DDH DDI DDJ DDK DDL DDM DDN DDO DDP DDQ DDR DDS DDT DDU DDV DDW DDX DDY DDZ DEA DEB DEC DED DEE DEF DEG DEH DEI DEJ DEK DEL DEM DEN DEO DEP DEQ DER DES DET DEU DEV DEW DEX DEY DEZ DFA DFB DFC DFD DFE DFF DFG DFH DFI DFJ DFK DFL DFM DFN DFO DFP DFQ DFR DFS DFT DFU DFV DFW DFX DFY DFZ DGA DGB DGC DGD DGE DGF DGG DGH DGI DGJ DGK DGL DGM DGN DGO DGP DGQ DGR DGS DGT DGU DGV DGW DGX DGY DGZ DHA DHB DHC DHD DHE DHF DHG DHH DHI DHJ DHK DHL DHM DHN DHO DHP DHQ DHR DHS DHT DHU DHV DHW DHX DHY DHZ DIA DIB DIC DID DIE DIF DIG DIH DII DIJ DIK DIL DIM DIN DIO DIP DIQ DIR DIS DIT DIU DIV DIW DIX DIY DIZ DJA DJB DJC DJD DJE DJF DJG DJH DJI DJJ DJK DJL DJM DJN DJO DJP DJQ DJR DJS DJT DJU DJV DJW DJX DJY DJZ DKA DKB DKC DKD DKE DKF DKG DKH DKI DKJ DKK DKL DKM DKN DKO DKP DKQ DKR DKS DKT DKU DKV DKW DKX DKY DKZ DLA DLB DLC DLD DLE DLF DLG DLH DLI DLJ DLK DLL DLM DLN DLO DLP DLQ DLR DLS DLT DLU DLV DLW DLX DLY DLZ DMA DMB DMC DMD DME DMF DMG DMH DMI DMJ DMK DML DMM DMN DMO DMP DMQ DMR DMS DMT DMU DMV DMW DMX DMY DMZ DNA DNB DNC DND DNE DNF DNG DNH DNI DNJ DNK DNL DNM DNN DNO DNP DNQ DNR DNS DNT DNU DNV DNW DNX DNY DNZ DOA DOB DOC DOD DOE DOF DOG DOH DOI DOJ DOK DOL DOM DON DOO DOP DOQ DOR DOS DOT DOU DOV DOW DOX DOY DOZ DPA DPB DPC DPD DPE DPF DPG DPH DPI DPJ DPK DPL DPM DPN DPO DPP DPQ DPR DPS DPT DPU DPV DPW DPX DPY DPZ DQA DQB DQC DQD DQE DQF DQG DQH DQI DQJ DQK DQL DQM DQN DQO DQP DQQ DQR DQS DQT DQU DQV DQW DQX DQY DQZ DRA DRB DRC DRD DRE DRF DRG DRH DRI DRJ DRK DRL DRM DRN DRO DRP DRQ DRR DRS DRT DRU DRV DRW DRX DRY DRZ DSA DSB DSC DSD DSE DSF DSG DSH DSI DSJ DSK DSL DSM DSN DSO DSP DSQ DSR DSS DST DSU DSV DSW DSX DSY DSZ DTA DTB DTC DTD DTE DTF DTG DTH DTI DTJ DTK DTL DTM DTN DTO DTP DTQ DTR DTS DTT DTU DTV DTW DTX DTY DTZ DUA DUB DUC DUD DUE DUF DUG DUH DUI DUJ DUK DUL DUM DUN DUO DUP DUQ DUR DUS DUT DUU DUV DUW DUX DUY DUZ DVA DVB DVC DVD DVE DVF DVG DVH DVI DVJ DVK DVL DVM DVN DVO DVP DVQ DVR DVS DVT DVU DVV DVW DVX DVY DVZ DWA DWB DWC DWD DWE DWF DWG DWH DWI DWJ DWK DWL DWM DWN DWO DWP DWQ DWR DWS DWT DWU DWV DWW DWX DWY DWZ DXA DXB DXC DXD DXE DXF DXG DXH DXI DXJ DXK DXL DXM DXN DXO DXP DXQ DXR DXS DXT DXU DXV DXW DXX DXY DXZ DYA DYB DYC DYD DYE DYF DYG DYH DYI DYJ DYK DYL DYM DYN DYO DYP DYQ DYR DYS DYT DYU DYV DYW DYX DYY DYZ DZA DZB DZC DZD DZE DZF DZG DZH DZI DZJ DZK DZL DZM DZN DZO DZP DZQ DZR DZS DZT DZU DZV DZW DZX DZY DZZ EAA EAB EAC EAD EAE EAF EAG EAH EAI EAJ EAK EAL EAM EAN EAO EAP EAQ EAR EAS EAT EAU EAV EAW EAX EAY EAZ EBA EBB EBC EBD EBE EBF EBG EBH EBI EBJ EBK EBL EBM EBN EBO EBP EBQ EBR EBS EBT EBU EBV EBW EBX EBY EBZ ECA ECB ECC ECD ECE ECF ECG ECH ECI ECJ ECK ECL ECM ECN ECO ECP ECQ ECR ECS ECT ECU ECV ECW ECX ECY ECZ EDA EDB EDC EDD EDE EDF EDG EDH EDI EDJ EDK EDL EDM EDN EDO EDP EDQ EDR EDS EDT EDU EDV EDW EDX EDY EDZ EEA EEB EEC EED EEE EEF EEG EEH EEI EEJ EEK EEL EEM EEN EEO EEP EEQ EER EES EET EEU EEV EEW EEX EEY EEZ EFA EFB EFC EFD EFE EFF EFG EFH EFI EFJ EFK EFL EFM EFN EFO EFP EFQ EFR EFS EFT EFU EFV EFW EFX EFY EFZ EGA EGB EGC EGD EGE EGF EGG EGH EGI EGJ EGK EGL EGM EGN EGO EGP EGQ EGR EGS EGT EGU EGV EGW EGX EGY EGZ EHA EHB EHC EHD EHE EHF EHG EHH EHI EHJ EHK EHL EHM EHN EHO EHP EHQ EHR EHS EHT EHU EHV EHW EHX EHY EHZ EIA EIB EIC EID EIE EIF EIG EIH EII EIJ EIK EIL EIM EIN EIO EIP EIQ EIR EIS EIT EIU EIV EIW EIX EIY EIZ EJA EJB EJC EJD EJE EJF EJG EJH EJI EJJ EJK EJL EJM EJN EJO EJP EJQ EJR EJS EJT EJU EJV EJW EJX EJY EJZ EKA EKB EKC EKD EKE EKF EKG EKH EKI EKJ EKK EKL EKM EKN EKO EKP EKQ EKR EKS EKT EKU EKV EKW EKX EKY EKZ ELA ELB ELC ELD ELE ELF ELG ELH ELI ELJ ELK ELL ELM ELN ELO ELP ELQ ELR ELS ELT ELU ELV ELW ELX ELY ELZ EMA EMB EMC EMD EME EMF EMG EMH EMI EMJ EMK EML EMM EMN EMO EMP EMQ EMR EMS EMT EMU EMV EMW EMX EMY EMZ ENA ENB ENC END ENE ENF ENG ENH ENI ENJ ENK ENL ENM ENN ENO ENP ENQ ENR ENS ENT ENU ENV ENW ENX ENY ENZ EOA EOB EOC EOD EOE EOF EOG EOH EOI EOJ EOK EOL EOM EON EOO EOP EOQ EOR EOS EOT EOU EOV EOW EOX EOY EOZ EPA EPB EPC EPD EPE EPF EPG EPH EPI EPJ EPK EPL EPM EPN EPO EPP EPQ EPR EPS EPT EPU EPV EPW EPX EPY EPZ EQA EQB EQC EQD EQE EQF EQG EQH EQI EQJ EQK EQL EQM EQN EQO EQP EQQ EQR EQS EQT EQU EQV EQW EQX EQY EQZ ERA ERB ERC ERD ERE ERF ERG ERH ERI ERJ ERK ERL ERM ERN ERO ERP ERQ ERR ERS ERT ERU ERV ERW ERX ERY ERZ ESA ESB ESC ESD ESE ESF ESG ESH ESI ESJ ESK ESL ESM ESN ESO ESP ESQ ESR ESS EST ESU ESV ESW ESX ESY ESZ ETA ETB ETC ETD ETE ETF ETG ETH ETI ETJ ETK ETL ETM ETN ETO ETP ETQ ETR ETS ETT ETU ETV ETW ETX ETY ETZ EUA EUB EUC EUD EUE EUF EUG EUH EUI EUJ EUK EUL EUM EUN EUO EUP EUQ EUR EUS EUT EUU EUV EUW EUX EUY EUZ EVA EVB EVC EVD EVE EVF EVG EVH EVI EVJ EVK EVL EVM EVN EVO EVP EVQ EVR EVS EVT EVU EVV EVW EVX EVY EVZ EWA EWB EWC EWD EWE EWF EWG EWH EWI EWJ EWK EWL EWM EWN EWO EWP EWQ EWR EWS EWT EWU EWV EWW EWX EWY EWZ EXA EXB EXC EXD EXE EXF EXG EXH EXI EXJ EXK EXL EXM EXN EXO EXP EXQ EXR EXS EXT EXU EXV EXW EXX EXY EXZ EYA EYB EYC EYD EYE EYF EYG EYH EYI EYJ EYK EYL EYM EYN EYO EYP EYQ EYR EYS EYT EYU EYV EYW EYX EYY EYZ EZA EZB EZC EZD EZE EZF EZG EZH EZI EZJ EZK EZL EZM EZN EZO EZP EZQ EZR EZS EZT EZU EZV EZW EZX EZY EZZ FAA FAB FAC FAD FAE FAF FAG FAH FAI FAJ FAK FAL FAM FAN FAO FAP FAQ FAR FAS FAT FAU FAV FAW FAX FAY FAZ FBA FBB FBC FBD FBE FBF FBG FBH FBI FBJ FBK FBL FBM FBN FBO FBP FBQ FBR FBS FBT FBU FBV FBW FBX FBY FBZ FCA FCB FCC FCD FCE FCF FCG FCH FCI FCJ FCK FCL FCM FCN FCO FCP FCQ FCR FCS FCT FCU FCV FCW FCX FCY FCZ FDA FDB FDC FDD FDE FDF FDG FDH FDI FDJ FDK FDL FDM FDN FDO FDP FDQ FDR FDS FDT FDU FDV FDW FDX FDY FDZ FEA FEB FEC FED FEE FEF FEG FEH FEI FEJ FEK FEL FEM FEN FEO FEP FEQ FER FES FET FEU FEV FEW FEX FEY FEZ FFA FFB FFC FFD FFE FFF FFG FFH FFI FFJ FFK FFL FFM FFN FFO FFP FFQ FFR FFS FFT FFU FFV FFW FFX FFY FFZ FGA FGB FGC FGD FGE FGF FGG FGH FGI FGJ FGK FGL FGM FGN FGO FGP FGQ FGR FGS FGT FGU FGV FGW FGX FGY FGZ FHA FHB FHC FHD FHE FHF FHG FHH FHI FHJ FHK FHL FHM FHN FHO FHP FHQ FHR FHS FHT FHU FHV FHW FHX FHY FHZ FIA FIB FIC FID FIE FIF FIG FIH FII FIJ FIK FIL FIM FIN FIO FIP FIQ FIR FIS FIT FIU FIV FIW FIX FIY FIZ FJA FJB FJC FJD FJE FJF FJG FJH FJI FJJ FJK FJL FJM FJN FJO FJP FJQ FJR FJS FJT FJU FJV FJW FJX FJY FJZ FKA FKB FKC FKD FKE FKF FKG FKH FKI FKJ FKK FKL FKM FKN FKO FKP FKQ FKR FKS FKT FKU FKV FKW FKX FKY FKZ FLA FLB FLC FLD FLE FLF FLG FLH FLI FLJ FLK FLL FLM FLN FLO FLP FLQ FLR FLS FLT FLU FLV FLW FLX FLY FLZ FMA FMB FMC FMD FME FMF FMG FMH FMI FMJ FMK FML FMM FMN FMO FMP FMQ FMR FMS FMT FMU FMV FMW FMX FMY FMZ FNA FNB FNC FND FNE FNF FNG FNH FNI FNJ FNK FNL FNM FNN FNO FNP FNQ FNR FNS FNT FNU FNV FNW FNX FNY FNZ FOA FOB FOC FOD FOE FOF FOG FOH FOI FOJ FOK FOL FOM FON FOO FOP FOQ FOR FOS FOT FOU FOV FOW FOX FOY FOZ FPA FPB FPC FPD FPE FPF FPG FPH FPI FPJ FPK FPL FPM FPN FPO FPP FPQ FPR FPS FPT FPU FPV FPW FPX FPY FPZ FQA FQB FQC FQD FQE FQF FQG FQH FQI FQJ FQK FQL FQM FQN FQO FQP FQQ FQR FQS FQT FQU FQV FQW FQX FQY FQZ FRA FRB FRC FRD FRE FRF FRG FRH FRI FRJ FRK FRL FRM FRN FRO FRP FRQ FRR FRS FRT FRU FRV FRW FRX FRY FRZ FSA FSB FSC FSD FSE FSF FSG FSH FSI FSJ FSK FSL FSM FSN FSO FSP FSQ FSR FSS FST FSU FSV FSW FSX FSY FSZ FTA FTB FTC FTD FTE FTF FTG FTH FTI FTJ FTK FTL FTM FTN FTO FTP FTQ FTR FTS FTT FTU FTV FTW FTX FTY FTZ FUA FUB FUC FUD FUE FUF FUG FUH FUI FUJ FUK FUL FUM FUN FUO FUP FUQ FUR FUS FUT FUU FUV FUW FUX FUY FUZ FVA FVB FVC FVD FVE FVF FVG FVH FVI FVJ FVK FVL FVM FVN FVO FVP FVQ FVR FVS FVT FVU FVV FVW FVX FVY FVZ FWA FWB FWC FWD FWE FWF FWG FWH FWI FWJ FWK FWL FWM FWN FWO FWP FWQ FWR FWS FWT FWU FWV FWW FWX FWY FWZ FXA FXB FXC FXD FXE FXF FXG FXH FXI FXJ FXK FXL FXM FXN FXO FXP FXQ FXR FXS FXT FXU FXV FXW FXX FXY FXZ FYA FYB FYC FYD FYE FYF FYG FYH FYI FYJ FYK FYL FYM FYN FYO FYP FYQ FYR FYS FYT FYU FYV FYW FYX FYY FYZ FZA FZB FZC FZD FZE FZF FZG FZH FZI FZJ FZK FZL FZM FZN FZO FZP FZQ FZR FZS FZT FZU FZV FZW FZX FZY FZZ GAA GAB GAC GAD GAE GAF GAG GAH GAI GAJ GAK GAL GAM GAN GAO GAP GAQ GAR GAS GAT GAU GAV GAW GAX GAY GAZ GBA GBB GBC GBD GBE GBF GBG GBH GBI GBJ GBK GBL GBM GBN GBO GBP GBQ GBR GBS GBT GBU GBV GBW GBX GBY GBZ GCA GCB GCC GCD GCE GCF GCG GCH GCI GCJ GCK GCL GCM GCN GCO GCP GCQ GCR GCS GCT GCU GCV GCW GCX GCY GCZ GDA GDB GDC GDD GDE GDF GDG GDH GDI GDJ GDK GDL GDM GDN GDO GDP GDQ GDR GDS GDT GDU GDV GDW GDX GDY GDZ GEA GEB GEC GED GEE GEF GEG GEH GEI GEJ GEK GEL GEM GEN GEO GEP GEQ GER GES GET GEU GEV GEW GEX GEY GEZ GFA GFB GFC GFD GFE GFF GFG GFH GFI GFJ GFK GFL GFM GFN GFO GFP GFQ GFR GFS GFT GFU GFV GFW GFX GFY GFZ GGA GGB GGC GGD GGE GGF GGG GGH GGI GGJ GGK GGL GGM GGN GGO GGP GGQ GGR GGS GGT GGU GGV GGW GGX GGY GGZ GHA GHB GHC GHD GHE GHF GHG GHH GHI GHJ GHK GHL GHM GHN GHO GHP GHQ GHR GHS GHT GHU GHV GHW GHX GHY GHZ GIA GIB GIC GID GIE GIF GIG GIH GII GIJ GIK GIL GIM GIN GIO GIP GIQ GIR GIS GIT GIU GIV GIW GIX GIY GIZ GJA GJB GJC GJD GJE GJF GJG GJH GJI GJJ GJK GJL GJM GJN GJO GJP GJQ GJR GJS GJT GJU GJV GJW GJX GJY GJZ GKA GKB GKC GKD GKE GKF GKG GKH GKI GKJ GKK GKL GKM GKN GKO GKP GKQ GKR GKS GKT GKU GKV GKW GKX GKY GKZ GLA GLB GLC GLD GLE GLF GLG GLH GLI GLJ GLK GLL GLM GLN GLO GLP GLQ GLR GLS GLT GLU GLV GLW GLX GLY GLZ GMA GMB GMC GMD GME GMF GMG GMH GMI GMJ GMK GML GMM GMN GMO GMP GMQ GMR GMS GMT GMU GMV GMW GMX GMY GMZ GNA GNB GNC GND GNE GNF GNG GNH GNI GNJ GNK GNL GNM GNN GNO GNP GNQ GNR GNS GNT GNU GNV GNW GNX GNY GNZ GOA GOB GOC GOD GOE GOF GOG GOH GOI GOJ GOK GOL GOM GON GOO GOP GOQ GOR GOS GOT GOU GOV GOW GOX GOY GOZ GPA GPB GPC GPD GPE GPF GPG GPH GPI GPJ GPK GPL GPM GPN GPO GPP GPQ GPR GPS GPT GPU GPV GPW GPX GPY GPZ GQA GQB GQC GQD GQE GQF GQG GQH GQI GQJ GQK GQL GQM GQN GQO GQP GQQ GQR GQS GQT GQU GQV GQW GQX GQY GQZ GRA GRB GRC GRD GRE GRF GRG GRH GRI GRJ GRK GRL GRM GRN GRO GRP GRQ GRR GRS GRT GRU GRV GRW GRX GRY GRZ GSA GSB GSC GSD GSE GSF GSG GSH GSI GSJ GSK GSL GSM GSN GSO GSP GSQ GSR GSS GST GSU GSV GSW GSX GSY GSZ GTA GTB GTC GTD GTE GTF GTG GTH GTI GTJ GTK GTL GTM GTN GTO GTP GTQ GTR GTS GTT GTU GTV GTW GTX GTY GTZ GUA GUB GUC GUD GUE GUF GUG GUH GUI GUJ GUK GUL GUM GUN GUO GUP GUQ GUR GUS GUT GUU GUV GUW GUX GUY GUZ GVA GVB GVC GVD GVE GVF GVG GVH GVI GVJ GVK GVL GVM GVN GVO GVP GVQ GVR GVS GVT GVU GVV GVW GVX GVY GVZ GWA GWB GWC GWD GWE GWF GWG GWH GWI GWJ GWK GWL GWM GWN GWO GWP GWQ GWR GWS GWT GWU GWV GWW GWX GWY GWZ GXA GXB GXC GXD GXE GXF GXG GXH GXI GXJ GXK GXL GXM GXN GXO GXP GXQ GXR GXS GXT GXU GXV GXW GXX GXY GXZ GYA GYB GYC GYD GYE GYF GYG GYH GYI GYJ GYK GYL GYM GYN GYO GYP GYQ GYR GYS GYT GYU

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Ulysses

Episode 1 — Telemachus

Stately, plump Buck Mulligan came from the stairhead, bearing a bowl of lather on which a mirror and a razor lay crossed. A yellow dressing gown, ungirdled, was sustained gently behind him on the mild morning air. He held the bowl aloft and intoned: — Introibo ad altare Dei. Halted, he peered down the dark winding stairway, and called out harshly: — Come up, Kinch. Come up, you fearful jesuit. Solemnly he came forward and mounted the round gunrest. He faced about and blessed gravely thrice the tower, the surrounding land and the awaking mountains. Then, catching sight of Stephen Dedalus, he bent towards him and made rapid crosses in the air, gurgling in his throat and shaking his head. Stephen Dedalus, displeased and sleepy, leaned his arms on the top of the staircase and looked coldly at the shaking gurgling face that blessed him, equally unmoved, the while. Thin lips, blanched by the deep pressure of the razor, fell open in a smile of scorn. Frowning slightly, he parted the unclosed lips and said thickly: — Back to barracks! He added in a preacher's tone: — For this, O dearly beloved, is the true church militant and no mistake. He descended the stairs and, stepping over the barrier, went towards the parapet. He leaned his elbows on it and looked out over the bay, his head in profile against the sky. Stephen, following him, went over and looked at the same view: a bright green field rising to the sky, a martello tower with its crenellated roof, and farther to the south the long slope of Howth, veiled in faint mist, hardly more than a shade on the sea. Buck Mulligan pointed his finger towards the mountain and said: — The snows melt on it and the wind blows cold. Stephen, who had been looking towards the mountain, turned his head and looked seaward. Buck Mulligan peered down over the parapet and said: — Only for that and the sea we could live like fighting cocks here. Stephen turned his head towards the tower and said: — Where is the key? Buck Mulligan tapped his breast and said: — I have it. Stephen said: — I'll need it too. Buck Mulligan said: — Of course you will. Stephen said: — I'll have to sleep here now. Buck Mulligan said: — Of course you will. Stephen said: — I'll have to get in

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```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Tue Jan 19 10:00:00 2021
4
5 @author: Administrator
6 """
7 import os
8 import sys
9 import time
10 import datetime
11 import logging
12 import traceback
13 import pandas as pd
14 import numpy as np
15 from collections import OrderedDict
16 from PyQt5.QtWidgets import (QApplication, QMainWindow, QWidget, QVBoxLayout, QHBoxLayout,
17 QGridLayout, QLabel, QLineEdit, QPushButton, QTextEdit, QTableWidget,
18 QTableWidgetItem, QHeaderView, QMessageBox, QFileDialog, QTabWidget,
19 QSplitter, QFrame, QScrollArea, QSizePolicy, QSpacerItem)
20 from PyQt5.QtCore import Qt, QTimer, QThread, pyqtSignal, QSize
21 from PyQt5.QtGui import QFont, QIcon, QPalette, QColor
22 import matplotlib.pyplot as plt
23 from matplotlib.backends.backend_qt5agg import FigureCanvasQTAgg as FigureCanvas
24 from matplotlib.figure import Figure
25 import matplotlib.dates as mdates
26 from matplotlib.ticker import MaxNLocator
27 import matplotlib.font_manager as fm
28 import matplotlib
29 matplotlib.rcParams['font.sans-serif'] = ['SimHei', 'Microsoft YaHei', 'Arial Unicode MS']
30 matplotlib.rcParams['axes.unicode_minus'] = False
31
32 # 配置日志
33 logging.basicConfig(level=logging.INFO,
34 format='%(asctime)s - %(name)s - %(levelname)s - %(message)s',
35 handlers=[logging.StreamHandler(sys.stdout)])
36 logger = logging.getLogger('StockAnalysis')
37
38 class StockDataFetcher:
39 """股票数据获取类"""
40
41 def __init__(self):
42 self.cache = {}
43 self.cache_time = {}
44 self.cache_duration = 300 # 缓存5分钟
45
46 def get_stock_data(self, stock_code, start_date, end_date):
47 """获取股票数据"""
48 cache_key = f"{stock_code}_{start_date}_{end_date}"
49
50 # 检查缓存
51 if cache_key in self.cache and time.time() - self.cache_time[cache_key] < self.cache_duration:
52 logger.info(f"从缓存获取 {stock_code} 数据")
53 return self.cache[cache_key]
54
55 try:
56 # 这里使用模拟数据，实际应用中应该调用真实API
57 logger.info(f"获取 {stock_code} 数据: {start_date} 到 {end_date}")
58 data = self._generate_mock_data(stock_code, start_date, end_date)
59
60 # 缓存数据
61 self.cache[cache_key] = data
62 self.cache_time[cache_key] = time.time()
63
64 return data
65 except Exception as e:
66 logger.error(f"获取数据失败: {e}")
67 raise
68
69 def _generate_mock_data(self, stock_code, start_date, end_date):
70 """生成模拟数据"""
71 dates = pd.date_range(start=start_date, end=end_date, freq='D')
72 dates = dates[dates.weekday < 5] # 只保留工作日
73
74 # 生成随机价格数据
75 np.random.seed(hash(stock_code) % 2**32)
76 base_price = 100 + np.random.rand() * 50
77 returns = np.random.normal(0.001, 0.02, len(dates))
78 prices = base_price * (1 + returns).cumprod()
79
80 # 生成OHLC数据
81 data = pd.DataFrame({
82 'date': dates,
83 'open': prices * (1 + np.random.normal(0, 0.005, len(dates))),
84 'high': prices * (1 + np.random.normal(0.01, 0.01, len(dates))),
85 'low': prices * (1 + np.random.normal(-0.01, 0.01, len(dates))),
86 'close': prices,
87 'volume': np.random.randint(1000000, 10000000, len(dates))
88 })
89
90 # 确保high是最高价，low是最低价
91 data['high'] = data[['open', 'high', 'close']].max(axis=1)
92 data['low'] = data[['open', 'low', 'close']].min(axis=1)
93
94 return data
95
96 class TechnicalIndicators:
97 """技术指标计算类"""
98
99 @staticmethod
100 def calculate_ma(data, periods=[5, 10, 20, 60]):
101 """计算移动平均线"""
102 for period in periods:
103 data[f'ma{period}'] = data['close'].rolling(window=period).mean()
104 return data
105
106 @staticmethod
107 def calculate_macd(data, fast=12, slow=26, signal=9):
108 """计算MACD指标"""
109 exp1 = data['close'].ewm(span=fast, adjust=False).mean()
110 exp2 = data['close'].ewm(span=slow, adjust=False).mean()
111 data['macd'] = exp1 - exp2
112 data['signal'] = data['macd'].ewm(span=signal, adjust=False).mean()
113 data['hist'] = data['macd'] - data['signal']
114 return data
115
116 @staticmethod
117 def calculate_rsi(data, period=14):
118 """计算RSI指标"""
119 delta = data['close'].diff()
120 gain = (delta.where(delta > 0, 0)).rolling(window=period).mean()
121 loss = (-delta.where(delta < 0, 0)).rolling(window=period).mean()
122 rs = gain / loss
123 data['rsi'] = 100 - (100 / (1 + rs))
124 return data
125
126 @staticmethod
127 def calculate_bollinger_bands(data, period=20, std_dev=2):
128 """计算布林带"""
129 data['bb_middle'] = data['close'].rolling(window=period).mean()
130 std = data['close'].rolling(window=period).std()
131 data['bb_upper'] = data['bb_middle'] + (std * std_dev)
132 data['bb_lower'] = data['bb_middle'] - (std * std_dev)
133 return data
134
135 @staticmethod
136 def calculate_kdj(data, n=9, m1=3, m2=3):
137 """计算KDJ指标"""
138 low_min = data['low'].rolling(window=n).min()
139 high_max = data['high'].rolling(window=n).max()
140 rsv = (data['close'] - low_min) / (high_max - low_min) * 100
141 data['k'] = rsv.ewm(com=m1-1, adjust=False).mean()
142 data['d'] = data['k'].ewm(com=m2-1, adjust=False).mean()
143 data['j'] = 3 * data['k'] - 2 * data['d']
144 return data
145
146 class StockAnalysisApp(QMainWindow):
147 """股票分析应用主窗口"""
148
149 def __init__(self):
150 super().__init__()
151 self.setWindowTitle("股票技术分析工具")
152 self.setGeometry(100, 100, 1200, 800)
153
154 self.data_fetcher = StockDataFetcher()
155 self.indicators = TechnicalIndicators()
156 self.current_data = None
157
158 self.init_ui()
159
160 def init_ui(self):
161 """初始化用户界面"""
162 central_widget = QWidget()
163 self.setCentralWidget(central_widget)
164
165 main_layout = QVBoxLayout(central_widget)
166
167 # 创建输入区域
168 input_layout = QHBoxLayout()
169
170 input_layout.addWidget(QLabel("股票代码:"))
171 self.stock_code_edit = QLineEdit("000001")
172 input_layout.addWidget(self.stock_code_edit)
173
174 input_layout.addWidget(QLabel("开始日期:"))
175 self.start_date_edit = QLineEdit("2020-01-01")
176 input_layout.addWidget(self.start_date_edit)
177
178 input_layout.addWidget(QLabel("结束日期:"))
179 self.end_date_edit = QLineEdit("2021-01-19")
180 input_layout.addWidget(self.end_date_edit)
181
182 self.fetch_button = QPushButton("获取数据")
183 self.fetch_button.clicked.connect(self.fetch_data)
184 input_layout.addWidget(self.fetch_button)
185
186 main_layout.addLayout(input_layout)
187
188 # 创建选项卡
189 self.tab_widget = QTabWidget()
190 main_layout.addWidget(self.tab_widget)
191
192 # 数据表格选项卡
193 self.data_table = QTableWidget()
194 self.tab_widget.addTab(self.data_table, "数据")
195
196 # 图表选项卡
197 self.figure = Figure(figsize=(10, 6))
198 self.canvas = FigureCanvas(self.figure)
199 self.tab_widget.addTab(self.canvas, "图表")
200
201 # 日志选项卡
202 self.log_text = QTextEdit()
203 self.log_text.setReadOnly(True)
204 self.tab_widget.addTab(self.log_text, "日志")
205
206 # 状态栏
207 self.statusBar().showMessage("就绪")
208
209 def fetch_data(self):
210 """获取股票数据"""
211 stock_code = self.stock_code_edit.text()
212 start_date = self.start_date_edit.text()
213 end_date = self.end_date_edit.text()
214
215 try:
216 self.statusBar().showMessage("正在获取数据...")
217 self.current_data = self.data_fetcher.get_stock_data(stock_code, start_date, end_date)
218
219 # 计算技术指标
220 self.current_data = self.indicators.calculate_ma(self.current_data)
221 self.current_data = self.indicators.calculate_macd(self.current_data)
222 self.current_data = self.indicators.calculate_rsi(self.current_data)
223 self.current_data = self.indicators.calculate_bollinger_bands(self.current_data)
224 self.current_data = self.indicators.calculate_kdj(self.current_data)
225
226 # 显示数据
227 self.display_data()
228 self.plot_data()
229
230 self.statusBar().showMessage("数据获取成功")
231 logger.info(f"成功获取 {stock_code} 数据")
232 except Exception as e:
233 self.statusBar().showMessage("数据获取失败")
234 logger.error(f"获取数据失败: {e}")
235 QMessageBox.critical(self, "错误", f"获取数据失败: {e}")
236
237 def display_data(self):
238 """显示数据到表格"""
239 if self.current_data is None:
240 return
241
242 self.data_table.setRowCount(len(self.current_data))
243 self.data_table.setColumnCount(len(self.current_data.columns))
244 self.data_table.setHorizontalHeaderLabels(self.current_data.columns)
245
246 for i, row in self.current_data.iterrows():
247 for j, value in enumerate(row):
248 self.data_table.setItem(i, j, QTableWidgetItem(str(value)))
249
250 def plot_data(self):
251 """绘制图表"""
252 if self.current_data is None:
253 return
254
255 self.figure.clear()
256
257 # 创建子图
258 ax1 = self.figure.add_subplot(211)
259 ax2 = self.figure.add_subplot(212)
260
261 # 绘制价格和移动平均线
262 ax1.plot(self.current_data['date'], self.current_data['close'], label='收盘价')
263 ax1.plot(self.current_data['date'], self.current_data['ma5'], label='MA5')
264 ax1.plot(self.current_data['date'], self.current_data['ma10'], label='MA10')
265 ax1.plot(self.current_data['date'], self.current_data['ma20'], label='MA20')
266 ax1.plot(self.current_data['date'], self.current_data['ma60'], label='MA60')
267 ax1.plot(self.current_data['date'], self.current_data['bb_upper'], label='布林上轨', linestyle='--')
268 ax1.plot(self.current_data['date'], self.current_data['bb_middle'], label='布林中轨', linestyle='--')
269 ax1.plot(self.current_data['date'], self.current_data['bb_lower'], label='布林下轨', linestyle='--')
270 ax1.legend()
271 ax1.set_title('价格与移动平均线')
272
273 # 绘制MACD
274 ax2.plot(self.current_data['date'], self.current_data['macd'], label='MACD')
275 ax2.plot(self.current_data['date'], self.current_data['signal'], label='信号线')
276 ax2.bar(self.current_data['date'], self.current_data['hist'], label='柱状图')
277 ax2.legend()
278 ax2.set_title('MACD指标')
279
280 self.figure.tight_layout()
281 self.canvas.draw()
282
283 def main():
284 app = QApplication(sys.argv)
285 window = StockAnalysisApp()
286 window.show()
287 sys.exit(app.exec_())
288
289 if __name__ == "__main__":
290 main()
```

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Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-packages (2.2.2)
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (1.26.4)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.10/dist-packages (3.7.1)
Requirement already satisfied: seaborn in /usr/local/lib/python3.10/dist-packages (0.13.1)
Requirement already satisfied: scikit-learn in /usr/local/lib/python3.10/dist-packages (1.3.2)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.10/dist-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas) (2024.2)
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.10/dist-packages (from pandas) (2024.2)
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (1.3.1)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (4.55.3)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (1.4.7)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (24.2)
Requirement already satisfied: pillow>=6.2.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (11.0.0)
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (3.2.0)
Requirement already satisfied: scipy>=1.5.0 in /usr/local/lib/python3.10/dist-packages (from scikit-learn) (1.13.1)
Requirement already satisfied: joblib>=1.1.1 in /usr/local/lib/python3.10/dist-packages (from scikit-learn) (1.4.2)
Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from scikit-learn) (3.5.0)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.8.2->pandas) (1.17.0)

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```
1 # Copyright 2016 The Chromium Authors. All rights reserved.
2 # Use of this source code is governed by a BSD-style license that can be
3 # found in the LICENSE file.
4
5 import("//build/config/android/rules.gni")
6 import("//build/config/compiler/compiler.gni")
7 import("//build/config/sanitizers/sanitizers.gni")
8 import("//build/config/ui.gni")
9 import("//build/toolchain/toolchain.gni")
10 import("//chrome/android/chrome_public_apk_tmpl.gni")
11 import("//chrome/android/chrome_public_common_apk_or_module_tmpl.gni")
12 import("//chrome/android/chrome_public_unwind_apk_or_module_tmpl.gni")
13 import("//chrome/android/chrome_test_java_sources.gni")
14 import("//chrome/android/features/android_library_factory_tmpl.gni")
15 import("//chrome/android/features/dev_ui/dev_ui_apk_tmpl.gni")
16 import("//chrome/android/features/dev_ui/dev_ui_java_sources.gni")
17 import("//chrome/android/features/dev_ui/dev_ui_module_tmpl.gni")
18 import("//chrome/android/features/tab_ui/java_sources.gni")
19 import("//chrome/android/features/vr/java_sources.gni")
20 import("//chrome/android/features/vr/vr_java_sources.gni")
21 import("//chrome/android/modules/autofill_assistant/java_sources.gni")
22 import("//chrome/android/modules/cast_device_selection/java_sources.gni")
23 import("//chrome/android/modules/dev_ui/java_sources.gni")
24 import("//chrome/android/modules/dynamic_module_tmpl.gni")
25 import("//chrome/android/modules/image_editor/java_sources.gni")
26 import("//chrome/android/modules/media_router/java_sources.gni")
27 import("//chrome/android/modules/vr/java_sources.gni")
28 import("//chrome/browser/android/webapk/webapk_apk_tmpl.gni")
29 import("//chrome/browser/android/webapk/webapk_java_sources.gni")
30 import("//chrome/browser/android/webapk/webapk_shell_apk_tmpl.gni")
31 import("//chrome/browser/android/webapk/webapk_shell_java_sources.gni")
32 import("//chrome/browser/vr/android/vr_java_sources.gni")
33 import("//chrome/test/android/chrome_test_java_sources.gni")
34 import("//chrome/test/android/chrome_test_native_apk_tmpl.gni")
35 import("//chrome/test/android/chrome_test_native_java_sources.gni")
36 import("//chrome/test/android/chrome_test_util_apk_tmpl.gni")
37 import("//chrome/test/android/chrome_test_util_java_sources.gni")
38 import("//chrome/test/android/cronet_test_apk_tmpl.gni")
39 import("//chrome/test/android/cronet_test_instrumentation_apk_tmpl.gni")
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547 
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[1] A method for forming a semiconductor device, comprising: providing a substrate; forming a first gate structure and a second gate structure on the substrate; forming a first source/drain region and a second source/drain region in the substrate, wherein the first gate structure is between the first source/drain region and the second source/drain region; forming a first contact plug on the first source/drain region; forming a second contact plug on the second source/drain region; forming a first dielectric layer on the first contact plug and the second contact plug; forming a first opening in the first dielectric layer, wherein the first opening exposes a portion of the first contact plug; forming a first conductive layer in the first opening; forming a second dielectric layer on the first dielectric layer and the first conductive layer; forming a second opening in the second dielectric layer, wherein the second opening exposes a portion of the first conductive layer; forming a second conductive layer in the second opening; forming a third dielectric layer on the second dielectric layer and the second conductive layer; forming a third opening in the third dielectric layer, wherein the third opening exposes a portion of the second conductive layer; forming a third conductive layer in the third opening; forming a fourth dielectric layer on the third dielectric layer and the third conductive layer; forming a fourth opening in the fourth dielectric layer, wherein the fourth opening exposes a portion of the third conductive layer; forming a fourth conductive layer in the fourth opening; forming a fifth dielectric layer on the fourth dielectric layer and the fourth conductive layer; forming a fifth opening in the fifth dielectric layer, wherein the fifth opening exposes a portion of the fourth conductive layer; forming a fifth conductive layer in the fifth opening; forming a sixth dielectric layer on the fifth dielectric layer and the fifth conductive layer; forming a sixth opening in the sixth dielectric layer, wherein the sixth opening exposes a portion of the fifth conductive layer; forming a sixth conductive layer in the sixth opening; forming a seventh dielectric layer on the sixth dielectric layer and the sixth conductive layer; forming a seventh opening in the seventh dielectric layer, wherein the seventh opening exposes a portion of the sixth conductive layer; forming a seventh conductive layer in the seventh opening; forming an eighth dielectric layer on the seventh dielectric layer and the seventh conductive layer; forming an eighth opening in the eighth dielectric layer, wherein the eighth opening exposes a portion of the seventh conductive layer; forming an eighth conductive layer in the eighth opening; forming a ninth dielectric layer on the eighth dielectric layer and the eighth conductive layer; forming a ninth opening in the ninth dielectric layer, wherein the ninth opening exposes a portion of the eighth conductive layer; forming a ninth conductive layer in the ninth opening; forming a tenth dielectric layer on the ninth dielectric layer and the ninth conductive layer; forming a tenth opening in the tenth dielectric layer, wherein the tenth opening exposes a portion of the ninth conductive layer; forming a tenth conductive layer in the tenth opening; forming an eleventh dielectric layer on the tenth dielectric layer and the tenth conductive layer; forming an eleventh opening in the eleventh dielectric layer, wherein the eleventh opening exposes a portion of the tenth conductive layer; forming an eleventh conductive layer in the eleventh opening; forming a twelfth dielectric layer on the eleventh dielectric layer and the eleventh conductive layer; forming a twelfth opening in the twelfth dielectric layer, wherein the twelfth opening exposes a portion of the eleventh conductive layer; forming a twelfth conductive layer in the twelfth opening; forming a thirteenth dielectric layer on the twelfth dielectric layer and the twelfth conductive layer; forming a thirteenth opening in the thirteenth dielectric layer, wherein the thirteenth opening exposes a portion of the twelfth conductive layer; forming a thirteenth conductive layer in the thirteenth opening; forming a fourteenth dielectric layer on the thirteenth dielectric layer and the thirteenth conductive layer; forming a fourteenth opening in the fourteenth dielectric layer, wherein the fourteenth opening exposes a portion of the thirteenth conductive layer; forming a fourteenth conductive layer in the fourteenth opening; forming a fifteenth dielectric layer on the fourteenth dielectric layer and the fourteenth conductive layer; forming a fifteenth opening in the fifteenth dielectric layer, wherein the fifteenth opening exposes a portion of the fourteenth conductive layer; forming a fifteenth conductive layer in the fifteenth opening; forming a sixteenth dielectric layer on the fifteenth dielectric layer and the fifteenth conductive layer; forming a sixteenth opening in the sixteenth dielectric layer, wherein the sixteenth opening exposes a portion of the fifteenth conductive layer; forming a sixteenth conductive layer in the sixteenth opening; forming a seventeenth dielectric layer on the sixteenth dielectric layer and the sixteenth conductive layer; forming a seventeenth opening in the seventeenth dielectric layer, wherein the seventeenth opening exposes a portion of the sixteenth conductive layer; forming a seventeenth conductive layer in the seventeenth opening; forming an eighteenth dielectric layer on the seventeenth dielectric layer and the seventeenth conductive layer; forming an eighteenth opening in the eighteenth dielectric layer, wherein the eighteenth opening exposes a portion of the seventeenth conductive layer; forming an eighteenth conductive layer in the eighteenth opening; forming a nineteenth dielectric layer on the eighteenth dielectric layer and the eighteenth conductive layer; forming a nineteenth opening in the nineteenth dielectric layer, wherein the nineteenth opening exposes a portion of the eighteenth conductive layer; forming a nineteenth conductive layer in the nineteenth opening; forming a twentieth dielectric layer on the nineteenth dielectric layer and the nineteenth conductive layer; forming a twentieth opening in the twentieth dielectric layer, wherein the twentieth opening exposes a portion of the nineteenth conductive layer; forming a twentieth conductive layer in the twentieth opening; forming a twenty-first dielectric layer on the twentieth dielectric layer and the twentieth conductive layer; forming a twenty-first opening in the twenty-first dielectric layer, wherein the twenty-first opening exposes a portion of the twentieth conductive layer; forming a twenty-first conductive layer in the twenty-first opening; forming a twenty-second dielectric layer on the twenty-first dielectric layer and the twenty-first conductive layer; forming a twenty-second opening in the twenty-second dielectric layer, wherein the twenty-second opening exposes a portion of the twenty-first conductive layer; forming a twenty-second conductive layer in the twenty-second opening; forming a twenty-third dielectric layer on the twenty-second dielectric layer and the twenty-second conductive layer; 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forming a twenty-sixth opening in the twenty-sixth dielectric layer, wherein the twenty-sixth opening exposes a portion of the twenty-fifth conductive layer; forming a twenty-sixth conductive layer in the twenty-sixth opening; forming a twenty-seventh dielectric layer on the twenty-sixth dielectric layer and the twenty-sixth conductive layer; forming a twenty-seventh opening in the twenty-seventh dielectric layer, wherein the twenty-seventh opening exposes a portion of the twenty-sixth conductive layer; forming a twenty-seventh conductive layer in the twenty-seventh opening; forming a twenty-eighth dielectric layer on the twenty-seventh dielectric layer and the twenty-seventh conductive layer; forming a twenty-eighth opening in the twenty-eighth dielectric layer, wherein the twenty-eighth opening exposes a portion of the twenty-seventh conductive layer; forming a twenty-eighth conductive layer in the twenty-eighth opening; forming a twenty-ninth dielectric layer on the twenty-eighth dielectric layer and the twenty-eighth conductive layer; 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forming a thirty-second opening in the thirty-second dielectric layer, wherein the thirty-second opening exposes a portion of the thirty-first conductive layer; forming a thirty-second conductive layer in the thirty-second opening; forming a thirty-third dielectric layer on the thirty-second dielectric layer and the thirty-second conductive layer; forming a thirty-third opening in the thirty-third dielectric layer, wherein the thirty-third opening exposes a portion of the thirty-second conductive layer; forming a thirty-third conductive layer in the thirty-third opening; forming a thirty-fourth dielectric layer on the thirty-third dielectric layer and the thirty-third conductive layer; forming a thirty-fourth opening in the thirty-fourth dielectric layer, wherein the thirty-fourth opening exposes a portion of the thirty-third conductive layer; forming a thirty-fourth conductive layer in the thirty-fourth opening; forming a thirty-fifth dielectric layer on the thirty-fourth dielectric layer and the thirty-fourth conductive layer; 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forming a forty-first opening in the forty-first dielectric layer, wherein the forty-first opening exposes a portion of the fortieth conductive layer; forming a forty-first conductive layer in the forty-first opening; forming a forty-second dielectric layer on the forty-first dielectric layer and the forty-first conductive layer; forming a forty-second opening in the forty-second dielectric layer, wherein the forty-second opening exposes a portion of the forty-first conductive layer; forming a forty-second conductive layer in the forty-second opening; forming a forty-third dielectric layer on the forty-second dielectric layer and the forty-second conductive layer; forming a forty-third opening in the forty-third dielectric layer, wherein the forty-third opening exposes a portion of the forty-second conductive layer; forming a forty-third conductive layer in the forty-third opening; forming a forty-fourth dielectric layer on the forty-third dielectric layer and the forty-third conductive layer; forming a forty-fourth opening in the forty-fourth dielectric layer, wherein the forty-fourth opening exposes a portion of the forty-third conductive layer; forming a forty-fourth conductive layer in the forty-fourth opening; forming a forty-fifth dielectric layer on the forty-fourth dielectric layer and the forty-fourth conductive layer; forming a forty-fifth opening in the forty-fifth dielectric layer, wherein the forty-fifth opening exposes a portion of the forty-fourth conductive layer; forming a forty-fifth conductive layer in the forty-fifth opening; forming a forty-sixth dielectric layer on the forty-fifth dielectric layer and the forty-fifth conductive layer; forming a forty-sixth opening in the forty-sixth dielectric layer, wherein the forty-sixth opening exposes a portion of the forty-fifth conductive layer; forming a forty-sixth conductive layer in the forty-sixth opening; forming a forty-seventh dielectric layer on the forty-sixth dielectric layer and the forty-sixth conductive layer; forming a forty-seventh opening in the forty-seventh dielectric layer, wherein the forty-seventh opening exposes a portion of the forty-sixth conductive layer; forming a forty-seventh conductive layer in the forty-seventh opening; forming a forty-eighth dielectric layer on the forty-seventh dielectric layer and the forty-seventh conductive layer; forming a forty-eighth opening in the forty-eighth dielectric layer, wherein the forty-eighth opening exposes a portion of the forty-seventh conductive layer; forming a forty-eighth conductive layer in the forty-eighth opening; forming a forty-ninth dielectric layer on the forty-eighth dielectric layer and the forty-eighth conductive layer; forming a forty-ninth opening in the forty-ninth dielectric layer, wherein the forty-ninth opening exposes a portion of the forty-eighth conductive layer; forming a forty-ninth conductive layer in the forty-ninth opening; forming a fiftieth dielectric layer on the forty-ninth dielectric layer and the forty-ninth conductive layer; forming a fiftieth opening in the fiftieth dielectric layer, wherein the fiftieth opening exposes a portion of the forty-ninth conductive layer; forming a fiftieth conductive layer in the fiftieth opening; forming a fifty-first dielectric layer on the fiftieth dielectric layer and the fiftieth conductive layer; forming a fifty-first opening in the fifty-first dielectric layer, wherein the fifty-first opening exposes a portion of the fiftieth conductive layer; forming a fifty-first conductive layer in the fifty-first opening; forming a fifty-second dielectric layer on the fifty-first dielectric layer and the fifty-first conductive layer; forming a fifty-second opening in the fifty-second dielectric layer, wherein the fifty-second opening exposes a portion of the fifty-first conductive layer; forming a fifty-second conductive layer in the fifty-second opening; forming a fifty-third dielectric layer on the fifty-second dielectric layer and the fifty-second conductive layer; forming a fifty-third opening in the fifty-third dielectric layer, wherein the fifty-third opening exposes a portion of the fifty-second conductive layer; forming a fifty-third conductive layer in the fifty-third opening; forming a fifty-fourth dielectric layer on the fifty-third dielectric layer and the fifty-third conductive layer; forming a fifty-fourth opening in the fifty-fourth dielectric layer, wherein the fifty-fourth opening exposes a portion of the fifty-third conductive layer; forming a fifty-fourth conductive layer in the fifty-fourth opening; forming a fifty-fifth dielectric layer on the fifty-fourth dielectric layer and the fifty-fourth conductive layer; forming a fifty-fifth opening in the fifty-fifth dielectric layer, wherein the fifty-fifth opening exposes a portion of the fifty-fourth conductive layer; forming a fifty-fifth conductive layer in the fifty-fifth opening; forming a fifty-sixth dielectric layer on the fifty-fifth dielectric layer and the fifty-fifth conductive layer; forming a fifty-sixth opening in the fifty-sixth dielectric layer, wherein the fifty-sixth opening exposes a portion of the fifty-fifth conductive layer; 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forming a fifty-ninth conductive layer in the fifty-ninth opening; forming a sixtieth dielectric layer on the fifty-ninth dielectric layer and the fifty-ninth conductive layer; forming a sixtieth opening in the sixtieth dielectric layer, wherein the sixtieth opening exposes a portion of the fifty-ninth conductive layer; forming a sixtieth conductive layer in the sixtieth opening; forming a sixty-first dielectric layer on the sixtieth dielectric layer and the sixtieth conductive layer; forming a sixty-first opening in the sixty-first dielectric layer, wherein the sixty-first opening exposes a portion of the sixtieth conductive layer; forming a sixty-first conductive layer in the sixty-first opening; forming a sixty-second dielectric layer on the sixty-first dielectric layer and the sixty-first conductive layer; forming a sixty-second opening in the sixty-second dielectric layer, wherein the sixty-second opening exposes a portion of the sixty-first conductive layer; forming a sixty-second conductive layer in the sixty-second opening; forming a sixty-third dielectric layer on the sixty-second dielectric layer and the sixty-second conductive layer; forming a sixty-third opening in the sixty-third dielectric layer, wherein the sixty-third opening exposes a portion of the sixty-second conductive layer; forming a sixty-third conductive layer in the sixty-third opening; forming a sixty-fourth dielectric layer on the sixty-third dielectric layer and the sixty-third conductive layer; forming a sixty-fourth opening in the sixty-fourth dielectric layer, wherein the sixty-fourth opening exposes a portion of the sixty-third conductive layer; forming a sixty-fourth conductive layer in the sixty-fourth opening; forming a sixty-fifth dielectric layer on the sixty-fourth dielectric layer and the sixty-fourth conductive layer; forming a sixty-fifth opening in the sixty-fifth dielectric layer, wherein the sixty-fifth opening exposes a portion of the sixty-fourth conductive layer; forming a sixty-fifth conductive layer in the sixty-fifth opening; 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forming a seventy-second dielectric layer on the seventy-first dielectric layer and the seventy-first conductive layer; forming a seventy-second opening in the seventy-second dielectric layer, wherein the seventy-second opening exposes a portion of the seventy-first conductive layer; forming a seventy-second conductive layer in the seventy-second opening; forming a seventy-third dielectric layer on the seventy-second dielectric layer and the seventy-second conductive layer; forming a seventy-third opening in the seventy-third dielectric layer, wherein the seventy-third opening exposes a portion of the seventy-second conductive layer; forming a seventy-third conductive layer in the seventy-third opening; forming a seventy-fourth dielectric layer on the seventy-third dielectric layer and the seventy-third conductive layer; forming a seventy-fourth opening in the seventy-fourth dielectric layer, wherein the seventy-fourth opening exposes a portion of the seventy-third conductive layer; forming a seventy-fourth conductive layer in the seventy-fourth opening; 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forming a eighty-first dielectric layer on the eightieth dielectric layer and the eightieth conductive layer; forming a eighty-first opening in the eighty-first dielectric layer, wherein the eighty-first opening exposes a portion of the eightieth conductive layer; forming a eighty-first conductive layer in the eighty-first opening; forming a eighty-second dielectric layer on the eighty-first dielectric layer and the eighty-first conductive layer; forming a eighty-second opening in the eighty-second dielectric layer, wherein the eighty-second opening exposes a portion of the eighty-first conductive layer; forming a eighty-second conductive layer in the eighty-second opening; forming a eighty-third dielectric layer on the eighty-second dielectric layer and the eighty-second conductive layer; forming a eighty-third opening in the eighty-third dielectric layer, wherein the eighty-third opening exposes a portion of the eighty-second conductive layer; forming a eighty-third conductive layer in the eighty-third opening; forming a eighty-fourth dielectric layer on the eighty-third dielectric layer and the eighty-third conductive layer; forming a eighty-fourth opening in the eighty-fourth dielectric layer, wherein the eighty-fourth opening exposes a portion of the eighty-third conductive layer; forming a eighty-fourth conductive layer in the eighty-fourth opening; forming a eighty-fifth dielectric layer on the eighty-fourth dielectric layer and the eighty-fourth conductive layer; forming a eighty-fifth opening in the eighty-fifth dielectric layer, wherein the eighty-fifth opening exposes a portion of the eighty-fourth conductive layer; forming a eighty-fifth conductive layer in the eighty-fifth opening; forming a eighty-sixth dielectric layer on the eighty-fifth dielectric layer and the eighty-fifth conductive layer; forming a eighty-sixth opening in the eighty-sixth dielectric layer, wherein the eighty-sixth opening exposes a portion of the eighty-fifth conductive layer; forming a eighty-sixth conductive layer in the eighty-sixth opening; forming a eighty-seventh dielectric layer on the eighty-sixth dielectric layer and the eighty-sixth conductive layer; forming a eighty-seventh opening in the eighty-seventh dielectric layer, wherein the eighty-seventh opening exposes a portion of the eighty-sixth conductive layer; forming a eighty-seventh conductive layer in the eighty-seventh opening; forming a eighty-eighth dielectric layer on the eighty-seventh dielectric layer and the eighty-seventh conductive layer; forming a eighty-eighth opening in the eighty-eighth dielectric layer, wherein the eighty-eighth opening exposes a portion of the eighty-seventh conductive layer; forming a eighty-eighth conductive layer in the eighty-eighth opening; forming a eighty-ninth dielectric layer on the eighty-eighth dielectric layer and the eighty-eighth conductive layer; forming a eighty-ninth opening in the eighty-ninth dielectric layer, wherein the eighty-ninth opening exposes a portion of the eighty-eighth conductive layer; forming a eighty-ninth conductive layer in the eighty-ninth opening; forming a ninetieth dielectric layer on the eighty-ninth dielectric layer and the eighty-ninth conductive layer; forming a ninetieth opening in the ninetieth dielectric layer, wherein the ninetieth opening exposes a portion of the eighty-ninth conductive layer; forming a ninetieth conductive layer in the ninetieth opening; forming a ninety-first dielectric layer on the ninetieth dielectric layer and the ninetieth conductive layer; forming a ninety-first opening in the ninety-first dielectric layer, wherein the ninety-first opening exposes a portion of the ninetieth conductive layer; forming a ninety-first conductive layer in the ninety-first opening; forming a ninety-second dielectric layer on the ninety-first dielectric layer and the ninety-first conductive layer; forming a ninety-second opening in the ninety-second dielectric layer, wherein the ninety-second opening exposes a portion of the ninety-first conductive layer; forming a ninety-second conductive layer in the ninety-second opening; forming a ninety-third dielectric layer on the ninety-second dielectric layer and the ninety-second conductive layer; forming a ninety-third opening in the ninety-third dielectric layer, wherein the ninety-third opening exposes a portion of the ninety-second conductive layer; forming a ninety-third conductive layer in the ninety-third opening; forming a ninety-fourth dielectric layer on the ninety-third dielectric layer and the ninety-third conductive layer; forming a ninety-fourth opening in the ninety-fourth dielectric layer, wherein the ninety-fourth opening exposes a portion of the ninety-third conductive layer; forming a ninety-fourth conductive layer in the ninety-fourth opening; forming a ninety-fifth dielectric layer on the ninety-fourth dielectric layer and the ninety-fourth conductive layer; forming a ninety-fifth opening in the ninety-fifth dielectric layer, wherein the ninety-fifth opening exposes a portion of the ninety-fourth conductive layer; forming a ninety-fifth conductive layer in the ninety-fifth opening; forming a ninety-sixth dielectric layer on the ninety-fifth dielectric layer and the ninety-fifth conductive layer; forming a ninety-sixth opening in the ninety-sixth dielectric layer, wherein the ninety-sixth opening exposes a portion of the ninety-fifth conductive layer; forming a ninety-sixth conductive layer in the ninety-sixth opening; forming a ninety-seventh dielectric layer on the ninety-sixth dielectric layer and the ninety-sixth conductive layer; forming a ninety-seventh opening in the ninety-seventh dielectric layer, wherein the ninety-seventh opening exposes a portion of the ninety-sixth conductive layer; forming a ninety-seventh conductive layer in the ninety-seventh opening; forming a ninety-eighth dielectric layer on the ninety-seventh dielectric layer and the ninety-seventh conductive layer; forming a ninety-eighth opening in the ninety-eighth dielectric layer, wherein the ninety-eighth opening exposes a portion of the ninety-seventh conductive layer; forming a ninety-eighth conductive layer in the ninety-eighth opening; forming a ninety-ninth dielectric layer on the ninety-eighth dielectric layer and the ninety-eighth conductive layer; forming a ninety-ninth opening in the ninety-ninth dielectric layer, wherein the ninety-ninth opening exposes a portion of the ninety-eighth conductive layer; forming a ninety-ninth conductive layer in the ninety-ninth opening; forming a one hundredth dielectric layer on the ninety-ninth dielectric layer and the ninety-ninth conductive layer; forming a one hundredth opening in the one hundredth dielectric layer, wherein the one hundredth opening exposes a portion of the ninety-ninth conductive layer; forming a one hundredth conductive layer in the one hundredth opening; forming a one hundred first dielectric layer on the one hundredth dielectric layer and the one hundredth conductive layer; forming a one hundred first opening in the one hundred first dielectric layer, wherein the one hundred first opening exposes a portion of the one hundredth conductive layer; forming a one hundred first conductive layer in the one hundred first opening; forming a one hundred second dielectric layer on the one hundred first dielectric layer and the one hundred first conductive layer; forming a one hundred second opening in the one hundred second dielectric layer, wherein the one hundred second opening exposes a portion of the one hundred first conductive layer; forming a one hundred second conductive layer in the one hundred second opening; forming a one hundred third dielectric layer on the one hundred second dielectric layer and the one hundred second conductive layer; forming a one hundred third opening in the one hundred third dielectric layer, wherein the one hundred third opening exposes a portion of the one hundred second conductive layer; forming a one hundred third conductive layer in the one hundred third opening; forming a one hundred fourth dielectric layer on the one hundred third dielectric layer and the one hundred third conductive layer; forming a one hundred fourth opening in the one hundred fourth dielectric layer, wherein the one hundred fourth opening exposes a portion of the one hundred third conductive layer; forming a one hundred fourth conductive layer in the one hundred fourth opening; forming a one hundred fifth dielectric layer on the one hundred fourth dielectric layer and the one hundred fourth conductive layer; forming a one hundred fifth opening in the one hundred fifth dielectric layer, wherein the one hundred fifth opening exposes a portion of the one hundred fourth conductive layer; forming a one hundred fifth conductive layer in the one hundred fifth opening; forming a one hundred sixth dielectric layer on the one hundred fifth dielectric layer and the one hundred fifth conductive layer; forming a one hundred sixth opening in the one hundred sixth dielectric layer, wherein the one hundred sixth opening exposes a portion of the one hundred fifth conductive layer; forming a one hundred sixth conductive layer in the one hundred sixth opening; forming a one hundred seventh dielectric layer on the one hundred sixth dielectric layer and the one hundred sixth conductive layer; forming a one hundred seventh opening in the one hundred seventh dielectric layer, wherein the one hundred seventh opening exposes a portion of the one hundred sixth conductive layer; forming a one hundred seventh conductive layer in the one hundred seventh opening; forming a one hundred eighth dielectric layer on the one hundred seventh dielectric layer and the one hundred seventh conductive layer; forming a one hundred eighth opening in the one hundred eighth dielectric layer, wherein the one hundred eighth opening exposes a portion of the one hundred seventh conductive layer; forming a one hundred eighth conductive layer in the one hundred eighth opening; forming a one hundred ninth dielectric layer on the one hundred eighth dielectric layer and the one hundred eighth conductive layer; forming a one hundred ninth opening in the one hundred ninth dielectric layer, wherein the one hundred ninth opening exposes a portion of the one hundred eighth conductive layer; forming a one hundred ninth conductive layer in the one hundred ninth opening; forming a one hundred tenth dielectric layer on the one hundred ninth dielectric layer and the one hundred ninth conductive layer; forming a one hundred tenth opening in the one hundred tenth dielectric layer, wherein the one hundred tenth opening exposes a portion of the one hundred ninth conductive layer; forming a one hundred tenth conductive layer in the one hundred tenth opening; forming a one hundred eleventh dielectric layer on the one hundred tenth dielectric layer and the one hundred tenth conductive layer; forming a one hundred eleventh opening in the one hundred eleventh dielectric layer, wherein the one hundred eleventh opening exposes a portion of the one hundred tenth conductive layer; forming a one hundred eleventh conductive layer in the one hundred eleventh opening; forming a one hundred twelfth dielectric layer on the one hundred eleventh dielectric layer and the one hundred eleventh conductive layer; forming a one hundred twelfth opening in the one hundred twelfth dielectric layer, wherein the one hundred twelfth opening exposes a portion of the one hundred eleventh conductive layer; forming a one hundred twelfth conductive layer in the one hundred twelfth opening; forming a one hundred thirteenth dielectric layer on the one hundred twelfth dielectric layer and the one hundred twelfth conductive layer; forming a one hundred thirteenth opening in the one hundred thirteenth dielectric layer, wherein the one hundred thirteenth opening exposes a portion of the one hundred twelfth conductive layer; forming a one hundred thirteenth conductive layer in the one hundred thirteenth opening; forming a one hundred fourteenth dielectric layer on the one hundred thirteenth dielectric layer and the one hundred thirteenth conductive layer; forming a one hundred fourteenth opening in the one hundred fourteenth dielectric layer, wherein the one hundred fourteenth opening exposes a portion of the one hundred thirteenth conductive layer; forming a one hundred fourteenth conductive layer in the one hundred fourteenth opening; forming a one hundred fifteenth dielectric layer on the one hundred fourteenth dielectric layer and the one hundred fourteenth conductive layer; forming a one hundred fifteenth opening in the one hundred fifteenth dielectric layer, wherein the one hundred fifteenth opening exposes a portion of the one hundred fourteenth conductive layer; forming a one hundred fifteenth conductive layer in the one hundred fifteenth opening; forming a one hundred sixteenth dielectric layer on the one hundred fifteenth dielectric layer and the one hundred fifteenth conductive layer; forming a one hundred sixteenth opening in the one hundred sixteenth dielectric layer, wherein the one hundred sixteenth opening exposes a portion of the one hundred fifteenth conductive layer; forming a one hundred sixteenth conductive layer in the one hundred sixteenth opening; forming a one hundred seventeenth dielectric layer on the one hundred sixteenth dielectric layer and the one hundred sixteenth conductive layer; forming a one hundred seventeenth opening in the one hundred seventeenth dielectric layer, wherein the one hundred seventeenth opening exposes a portion of the one hundred sixteenth conductive layer; forming a one hundred seventeenth conductive layer in the one hundred seventeenth opening; forming a one hundred eighteenth dielectric layer on the one hundred seventeenth dielectric layer and the one hundred seventeenth conductive layer; forming a one hundred eighteenth opening in the one hundred eighteenth dielectric layer, wherein the one hundred eighteenth opening exposes a portion of the one hundred seventeenth conductive layer; forming a one hundred eighteenth conductive layer in the one hundred eighteenth opening; forming a one hundred nineteenth dielectric layer on the one hundred eighteenth dielectric layer and the one hundred eighteenth conductive layer; forming a one hundred nineteenth opening in the one hundred nineteenth dielectric layer, wherein the one hundred nineteenth opening exposes a portion of the one hundred eighteenth conductive layer; forming a one hundred nineteenth conductive layer in the one hundred nineteenth opening; forming a one hundred twentieth dielectric layer on the one hundred nineteenth dielectric layer and the one hundred nineteenth conductive layer; forming a one hundred twentieth opening in the one hundred twentieth dielectric layer, wherein the one hundred twentieth opening exposes a portion of the one hundred nineteenth conductive layer; forming a one hundred twentieth conductive layer in the one hundred twentieth opening; forming a one hundred twenty-first dielectric layer on the one hundred twentieth dielectric layer and the one hundred twentieth conductive layer; forming a one hundred twenty-first opening in the one hundred twenty-first dielectric layer, wherein the one hundred twenty-first opening exposes a portion of the one hundred twentieth conductive layer; forming a one hundred twenty-first conductive layer in the one hundred twenty-first opening; forming a one hundred twenty-second dielectric layer on the one hundred twenty-first dielectric layer and the one hundred twenty-first conductive layer; forming a one hundred twenty-second opening in the one hundred twenty-second dielectric layer, wherein the one hundred twenty-second opening exposes a portion of the one hundred twenty-first conductive layer; forming a one hundred twenty-second conductive layer in the one hundred twenty-second opening; forming a one hundred twenty-third dielectric layer on the one hundred twenty-second dielectric layer and the one hundred twenty-second conductive layer; forming a one hundred twenty-third opening in the one hundred twenty-third dielectric layer, wherein the one hundred twenty-third opening exposes a portion of the one hundred twenty-second conductive layer; forming a one hundred twenty-third conductive layer in the one hundred twenty-third opening; forming a one hundred twenty-fourth dielectric layer on the one hundred twenty-third dielectric layer and the one hundred twenty-third conductive layer; forming a one hundred twenty-fourth opening in the one hundred twenty-fourth dielectric layer, wherein the one hundred twenty-fourth opening exposes a portion of the one hundred twenty-third conductive layer; forming a one hundred twenty-fourth conductive layer in the one hundred twenty-fourth opening; forming a one hundred twenty-fifth dielectric layer on the one hundred twenty-fourth dielectric layer and the one hundred twenty-fourth conductive layer; forming a one hundred twenty-fifth opening in the one hundred twenty-fifth dielectric layer, wherein the one hundred twenty-fifth opening exposes a portion of the one hundred twenty-fourth conductive layer; forming a one hundred twenty-fifth conductive layer in the one hundred twenty-fifth opening; forming a one hundred twenty-sixth dielectric layer on the one hundred twenty-fifth dielectric layer and the one hundred twenty-fifth conductive layer; forming a one hundred twenty-sixth opening in the one hundred twenty-sixth dielectric layer, wherein the one hundred twenty-s

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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Step 0: [0, 0, 0, 
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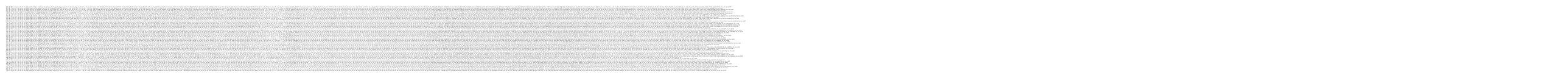
[1] Ap. Ct. 1 Ap. Ct. 2 Ap. Ct. 3 Ap. Ct. 4 Ap. Ct. 5 Ap. Ct. 6 Ap. Ct. 7 Ap. Ct. 8 Ap. Ct. 9 Ap. Ct. 10 Ap. Ct. 11 Ap. Ct. 12 Ap. Ct. 13 Ap. Ct.

[1] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

[1] 0.0 0.0 0.0



[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]

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1 # Copyright 2016 The Kubernetes Authors.
2 #
3 # Licensed under the Apache License, Version 2.0 (the "License");
4 # you may not use this file except in compliance with the License.
5 # You may obtain a copy of the License at
6 #
7 #     http://www.apache.org/licenses/LICENSE-2.0
8 #
9 # Unless required by applicable law or agreed to in writing, software
10 # distributed under the License is distributed on an "AS IS" BASIS,
11 # WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
12 # See the License for the specific language governing permissions and
13 # limitations under the License.
14
15 # Build the kubernetes-dashboard binary
16 FROM golang:1.8.3 AS builder
17 WORKDIR /go/src/github.com/kubernetes/dashboard
18 COPY . ./
19 RUN CGO_ENABLED=0 go install -installsuffix cgo -ldflags '-s' github.com/kubernetes/dashboard
20
21 # Final container
22 FROM scratch
23 COPY --from=builder /go/bin/dashboard /
24 COPY src/deploy/certs/ /certs/
25 COPY src/app/frontend/ /public/
26 EXPOSE 9090
27 ENTRYPOINT ["/dashboard"]
28
29 # Copyright 2016 The Kubernetes Authors.
30 #
31 # Licensed under the Apache License, Version 2.0 (the "License");
32 # you may not use this file except in compliance with the License.
33 # You may obtain a copy of the License at
34 #
35 #     http://www.apache.org/licenses/LICENSE-2.0
36 #
37 # Unless required by applicable law or agreed to in writing, software
38 # distributed under the License is distributed on an "AS IS" BASIS,
39 # WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
40 # See the License for the specific language governing permissions and
41 # limitations under the License.
42
43 # Build the kubernetes-dashboard binary
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45 WORKDIR /go/src/github.com/kubernetes/dashboard
46 COPY . ./
47 RUN CGO_ENABLED=0 go install -installsuffix cgo -ldflags '-s' github.com/kubernetes/dashboard
48
49 # Final container
50 FROM scratch
51 COPY --from=builder /go/bin/dashboard /
52 COPY src/deploy/certs/ /certs/
53 COPY src/app/frontend/ /public/
54 EXPOSE 9090
55 ENTRYPOINT ["/dashboard"]
56
57 # Copyright 2016 The Kubernetes Authors.
58 #
59 # Licensed under the Apache License, Version 2.0 (the "License");
60 # you may not use this file except in compliance with the License.
61 # You may obtain a copy of the License at
62 #
63 #     http://www.apache.org/licenses/LICENSE-2.0
64 #
65 # Unless required by applicable law or agreed to in writing, software
66 # distributed under the License is distributed on an "AS IS" BASIS,
67 # WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
68 # See the License for the specific language governing permissions and
69 # limitations under the License.
70
71 # Build the kubernetes-dashboard binary
72 FROM golang:1.8.3 AS builder
73 WORKDIR /go/src/github.com/kubernetes/dashboard
74 COPY . ./
75 RUN CGO_ENABLED=0 go install -installsuffix cgo -ldflags '-s' github.com/kubernetes/dashboard
76
77 # Final container
78 FROM scratch
79 COPY --from=builder /go/bin/dashboard /
80 COPY src/deploy/certs/ /certs/
81 COPY src/app/frontend/ /public/
82 EXPOSE 9090
83 ENTRYPOINT ["/dashboard"]
84
85 # Copyright 2016 The Kubernetes Authors.
86 #
87 # Licensed under the Apache License, Version 2.0 (the "License");
88 # you may not use this file except in compliance with the License.
89 # You may obtain a copy of the License at
90 #
91 #     http://www.apache.org/licenses/LICENSE-2.0
92 #
93 # Unless required by applicable law or agreed to in writing, software
94 # distributed under the License is distributed on an "AS IS" BASIS,
95 # WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
96 # See the License for the specific language governing permissions and
97 # limitations under the License.
98
99 # Build the kubernetes-dashboard binary
100 FROM golang:1.8.3 AS builder
101 WORKDIR /go/src/github.com/kubernetes/dashboard
102 COPY . ./
103 RUN CGO_ENABLED=0 go install -installsuffix cgo -ldflags '-s' github.com/kubernetes/dashboard
104
105 # Final container
106 FROM scratch
107 COPY --from=builder /go/bin/dashboard /
108 COPY src/deploy/certs/ /certs/
109 COPY src/app/frontend/ /public/
110 EXPOSE 9090
111 ENTRYPOINT ["/dashboard"]
112
113 # Copyright 2016 The Kubernetes Authors.
114 #
115 # Licensed under the Apache License, Version 2.0 (the "License");
116 # you may not use this file except in compliance with the License.
117 # You may obtain a copy of the License at
118 #
119 #     http://www.apache.org/licenses/LICENSE-2.0
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799 # Build the kubernetes-dashboard binary
800 FROM golang:1.8.3 AS builder
801 WORKDIR /go/src/github.com/kubernetes/dashboard
802 COPY . ./
803 RUN CGO_ENABLED=0 go install -installsuffix cgo -ldflags '-s' github.com/kubernetes/dashboard
804
805 # Final container
806 FROM scratch
807 COPY --from=builder /go/bin/dashboard /
808 COPY src/deploy/certs/ /certs/
809 COPY src/app/frontend/ /public/
810 EXPOSE 9090
811 ENTRYPOINT ["/dashboard"]
812
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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| | | |

[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]

[1] 0x0 0x0 0x0

Ref. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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[0] 0.0.0.0:6379> SET key2 "World"
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[0] 0.0: 0.0000 (0.0000) [0] 1.0: 0.0000 (0.0000) [0] 2.0: 0.0000 (0.0000) [0] 3.0: 0.0000 (0.0000) [0] 4.0: 0.0000 (0.0000) [0] 5.0: 0.0000 (0.0000) [0] 6.0: 0.0000 (0.0000) [0] 7.0: 0.0000 (0.0000) [0] 8.0: 0.0000 (0.0000) [0] 9.0: 0.0000 (0.0000) [0]
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[0] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39
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Ref. 1 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]
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[ 0.000000] Linux version 5.15.0-91-generic (buildd@lcy02-amd64-060) (gcc (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0, GNU ld (GNU Binutils for Ubuntu) 2.38) #101-Ubuntu SMP Tue Nov 14 13:30:08 UTC 2023 (Ubuntu 5.15.0-91.101-generic 5.15.131)
[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.15.0-91-generic root=UUID=3f2a1b4c-9d8e-4f6a-b2c1-7e5d0a3f8b6c ro quiet splash vt.handoff=7
[ 0.000000] KERNEL supported cpus:
[ 0.000000]   Intel GenuineIntel
[ 0.000000]   AMD AuthenticAMD
[ 0.000000]   Hygon HygonGenuine
[ 0.000000]   Centaur CentaurHauls
[ 0.000000]   zhaoxin   Shanghai
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x008: 'MPX bounds registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x010: 'MPX CSR'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x020: 'AVX-512 opmask'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x040: 'AVX-512 Hi256'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x080: 'AVX-512 ZMM_Hi256'
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[ 0.000000] x86/fpu: Supporting XSAVE feature 0x400: 'PT configuration'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x800: 'Control-flow User registers'
[ 0.000000] x86/fpu: Supporting XSAVE feature 0x1000: 'Control-flow Kernel registers'
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[ 0.000000] x86/fpu: Supporting XSAVE feature 0x4000: 'Hardware Feedback'
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1 Then Jesus was led up by the Spirit into the wilderness, to be tempted by the devil.
2 And when he had fasted forty days and forty nights, he was afterward an hungred.
3 And when the tempter came to him, he said, If thou be the Son of God, command that these stones be made bread.
4 But he answered and said, It is written, Man shall not live by bread alone, but by every word that proceedeth out of the mouth of God.
5 Then the devil taketh him up into the holy city, and setteth him on a pinnacle of the temple,
6 And saith unto him, If thou be the Son of God, cast thyself down: for it is written, He shall give his angels charge concerning thee: and in their hands they shall bear thee up, lest at any time thou dash thy foot against a stone.
7 Jesus said unto him, It is written again, Thou shalt not tempt the Lord thy God.
8 Again, the devil taketh him up into an exceeding high mountain, and sheweth him all the kingdoms of the world, and the glory of them;
9 And saith unto him, All these things will I give thee, if thou wilt fall down and worship me.
10 Then saith Jesus unto him, Get thee hence, Satan: for it is written, Thou shalt worship the Lord thy God, and him only shalt thou serve.
11 Then the devil leaveth him, and, behold, angels came and ministered unto him.
12 Now when Jesus had heard that John was cast into prison, he departed into Galilee;
13 And leaving Nazareth, he came and dwelt in Capernaum, which is upon the sea coast, in the borders of Zabulon and Nephthalim:
14 That it might be fulfilled which was spoken by Esaias the prophet, saying,
15 The land of Zabulon, and the land of Nephthalim, by the way of the sea, beyond Jordan, Galilee of the Gentiles;
16 The people which sat in darkness saw great light; and to them which sat in the region and shadow of death light is sprung up.
17 From that time Jesus began to preach, and to say, Repent: for the kingdom of heaven is at hand.
18 And Jesus, walking by the sea of Galilee, saw two brethren, Simon called Peter, and Andrew his brother, casting a net into the sea: for they were fishers.
19 And he saith unto them, Follow me, and I will make you fishers of men.
20 And they straightway left their nets, and followed him.
21 And going on from thence, he saw other two brethren, James the son of Zebedee, and John his brother, in a ship with Zebedee their father, mending their nets; and he called them.
22 And they immediately left the ship and their father, and followed him.
23 And Jesus went about all Galilee, teaching in their synagogues, and preaching the gospel of the kingdom, and healing all manner of sickness and all manner of disease among the people.
24 And his fame went throughout all Syria: and they brought unto him all sick people that were taken with various diseases and torments, and those which were possessed with devils, and those which were lunatick, and those that had the palsy; and he healed them.
25 And there followed him great multitudes of people from Galilee, and from Decapolis, and from Jerusalem, and from Judaea, and from beyond Jordan.
1 And seeing the multitudes, he went up into a mountain: and when he was set, his disciples came unto him:
2 And he opened his mouth, and taught them, saying,
3 Blessed are the poor in spirit: for theirs is the kingdom of heaven.
4 Blessed are they that mourn: for they shall be comforted.
5 Blessed are the meek: for they shall inherit the earth.
6 Blessed are they which do hunger and thirst after righteousness: for they shall be filled.
7 Blessed are the merciful: for they shall obtain mercy.
8 Blessed are the pure in heart: for they shall see God.
9 Blessed are the peacemakers: for they shall be called the children of God.
10 Blessed are they which are persecuted for righteousness' sake: for theirs is the kingdom of heaven.
11 Blessed are ye, when men shall revile you, and persecute you, and shall say all manner of evil against you falsely, for my sake.
12 Rejoice, and be exceeding glad: for great is your reward in heaven: for so persecuted they the prophets which were before you.
13 Ye are the salt of the earth: but if the salt have lost his savour, wherewith shall it be salted? it is thenceforth good for nothing, but to be cast out, and to be trodden under foot of men.
14 Ye are the light of the world. A city that is set on an hill cannot be hid.
15 Neither do men light a candle, and put it under a bushel, but on a candlestick; and it giveth light unto all that are in the house.
16 Let your light so shine before men, that they may see your good works, and glorify your Father which is in heaven.
17 Think not that I am come to destroy the law, or the prophets: I am not come to destroy, but to fulfil.
18 For verily I say unto you, Till heaven and earth pass, one jot or one tittle shall in no wise pass from the law, till all be fulfilled.
19 Whosoever therefore shall break one of these least commandments, and shall teach men so, he shall be called the least in the kingdom of heaven: but whosoever shall do and teach them, the same shall be called great in the kingdom of heaven.
20 For I say unto you, That except your righteousness shall exceed the righteousness of the scribes and Pharisees, ye shall in no case enter into the kingdom of heaven.
21 Ye have heard that it was said by them of old time, Thou shalt not kill; and whosoever shall kill shall be in danger of the judgment:
22 But I say unto you, That whosoever is angry with his brother without a cause shall be in danger of the judgment: and whosoever shall say to his brother, Raca, shall be in danger of the council: but whosoever shall say, Thou fool, shall be in danger of hell fire.
23 Therefore if thou bring thy gift to the altar, and there remembrest that thy brother hath ought against thee;
24 Leave there thy gift before the altar, and go thy way; first be reconciled to thy brother, and then come and offer thy gift.
25 Agree with thine adversary quickly, whiles thou art in the way with him; lest at any time the adversary deliver thee to the judge, and the judge deliver thee to the officer, and thou be cast into prison.
26 Verily I say unto thee, Thou shalt by no means come out thence, till thou hast paid the uttermost farthing.
27 Ye have heard that it was said by them of old time, Thou shalt not commit adultery:
28 But I say unto you, That whosoever looketh on a woman to lust after her hath committed adultery with her already in his heart.
29 And if thy right eye offend thee, pluck it out, and cast it from thee: for it is profitable for thee that one of thy members should perish, and not that thy whole body should be cast into hell.
30 And if thy right hand offend thee, cut it off, and cast it from thee: for it is profitable for thee that one of thy members should perish, and not that thy whole body should be cast into hell.
31 It hath been said, Whosoever shall put away his wife, let him give her a writing of divorcement:
32 But I say unto you, That whosoever shall put away his wife, saving for the cause of fornication, causeth her to commit adultery: and whosoever shall marry her that is divorced committeth adultery.
33 Again, ye have heard that it hath been said by them of old time, Thou shalt not forswear thyself, but shalt perform unto the Lord thine oaths:
34 But I say unto you, Swear not at all; neither by heaven; for it is God's throne:
35 Nor by the earth; for it is his footstool: neither by Jerusalem; for it is the city of the great King.
36 Neither shalt thou swear by thy head, because thou canst not make one hair white or black.
37 But let your communication be, Yea, yea; Nay, nay: for whatsoever is more than these cometh of evil.
38 Ye have heard that it hath been said, An eye for an eye, and a tooth for a tooth:
39 But I say unto you, That ye resist not evil: but whosoever shall smite thee on thy right cheek, turn to him the other also.
40 And if any man will sue thee at the law, and take away thy coat, let him have thy cloke also.
41 And whosoever shall compel thee to go a mile, go with him twain.
42 Give to him that asketh thee, and from him that would borrow of thee turn not thou away.
43 Ye have heard that it hath been said, Thou shalt love thy neighbour, and hate thine enemy.
44 But I say unto you, Love your enemies, bless them that curse you, do good to them that hate you, and pray for them which despitefully use you, and persecute you;
45 That ye may be the children of your Father which is in heaven: for he maketh his sun to rise on the evil and on the good, and sendeth rain on the just and on the unjust.
46 For if ye love them which love you, what reward have ye? do not even the publicans the same?
47 And if ye salute your brethren only, what do ye more than others? do not even the publicans so?
48 Be ye therefore perfect, even as your Father which is in heaven is perfect.
1 Take heed that ye do not your alms before men, to be seen of them: otherwise ye have no reward of your Father which is in heaven.
2 Therefore when thou doest thine alms, do not sound a trumpet before thee, as the hypocrites do in the synagogues and in the streets, that they may have glory of men. Verily I say unto you, They have their reward.
3 But when thou doest alms, let not thy left hand know what thy right hand doeth:
4 That thine alms may be in secret: and thy Father which seeth in secret himself shall reward thee openly.
5 And when thou prayest, thou shalt not be as the hypocrites are: for they love to pray standing in the synagogues and in the corners of the streets, that they may be seen of men. Verily I say unto you, They have their reward.
6 But thou, when thou prayest, enter into thy closet, and when thou hast shut thy door, pray to thy Father which is in secret; and thy Father which seeth in secret shall reward thee openly.
7 But when ye pray, use not vain repetitions, as the heathen do: for they think that they shall be heard for their much speaking.
8 Be not ye therefore like unto them: for your Father knoweth what things ye have need of, before ye ask him.
9 After this manner therefore pray ye: Our Father which art in heaven, Hallowed be thy name.
10 Thy kingdom come. Thy will be done in earth, as it is in heaven.
11 Give us this day our daily bread.
12 And forgive us our debts, as we forgive our debtors.
13 And lead us not into temptation, but deliver us from evil: For thine is the kingdom, and the power, and the glory, for ever. Amen.
14 For if ye forgive men their trespasses, your heavenly Father will also forgive you:
15 But if ye forgive not men their trespasses, neither will your Father forgive your trespasses.
16 Moreover when ye fast, be not, as the hypocrites, of a sad countenance: for they disfigure their faces, that they may appear unto men to fast. Verily I say unto you, They have their reward.
17 But thou, when thou fastest, anoint thine head, and wash thy face;
18 That thou appear not unto men to fast, but unto thy Father which is in secret: and thy Father, which seeth in secret, shall reward thee openly.
19 Lay not up for yourselves treasures upon earth, where moth and rust doth corrupt, and where thieves break through and steal:
20 But lay up for yourselves treasures in heaven, where neither moth nor rust doth corrupt, and where thieves do not break through nor steal:
21 For where your treasure is, there will your heart be also.
22 The light of the body is the eye: if therefore thine eye be single, thy whole body shall be full of light.
23 But if thine eye be evil, thy whole body shall be full of darkness. If therefore the light that is in thee be darkness, how great is that darkness!
24 No man can serve two masters: for either he will hate the one, and love the other; or else he will hold to the one, and despise the other. Ye cannot serve God and mammon.
25 Therefore I say unto you, Take no thought for your life, what ye shall eat, or what ye shall drink; nor yet for your body, what ye shall put on. Is not the life more than meat, and the body than raiment?
26 Behold the fowls of the air: for they sow not, neither do they reap, nor gather into barns; yet your heavenly Father feedeth them. Are ye not much better than they?
27 Which of you by taking thought can add one cubit unto his stature?
28 And why take ye thought for raiment? Consider the lilies of the field, how they grow; they toil not, neither do they spin:
29 And yet I say unto you, That even Solomon in all his glory was not arrayed like one of these.
30 Wherefore, if God so clothe the grass of the field, which to day is, and to morrow is cast into the oven, shall he not much more clothe you, O ye of little faith?
31 Therefore take no thought, saying, What shall we eat? or, What shall we drink? or, Wherewithal shall we be clothed?
32 (For after all these things do the Gentiles seek:) for your heavenly Father knoweth that ye have need of all these things.
33 But seek ye first the kingdom of God, and his righteousness; and all these things shall be added unto you.
34 Take therefore no thought for the morrow: for the morrow shall take thought for the things of itself. Sufficient unto the day is the evil thereof.
1 Judge not, that ye be not judged.
2 For with what judgment ye judge, ye shall be judged: and with what measure ye mete, it shall be measured to you again.
3 And why beholdest thou the mote that is in thy brother's eye, but considerest not the beam that is in thine own eye?
4 Or how wilt thou say to thy brother, Let me pull out the mote out of thine eye; and, behold, a beam is in thine own eye?
5 Thou hypocrite, first cast out the beam out of thine own eye; and then shalt thou see clearly to cast out the mote out of thy brother's eye.
6 Give not that which is holy unto the dogs, neither cast ye your pearls before swine, lest they trample them under their feet, and turn again and rend you.
7 Ask, and it shall be given you; seek, and ye shall find; knock, and it shall be opened unto you:
8 For every one that asketh receiveth; and he that seeketh findeth; and to him that knocketh it shall be opened.
9 Or what man is there of you, whom if his son ask bread, will he give him a stone?
10 Or if he ask a fish, will he give him a serpent?
11 If ye then, being evil, know how to give good gifts unto your children, how much more shall your Father which is in heaven give good things to them that ask him?
12 Therefore all things whatsoever ye would that men should do to you, do ye even so to them: for this is the law and the prophets.
13 Enter ye in at the strait gate: for wide is the gate, and broad is the way, that leadeth to destruction, and many there be which go in thereat:
14 Because strait is the gate, and narrow is the way, which leadeth unto life, and few there be that find it.
15 Beware of false prophets, which come to you in sheep's clothing, but inwardly they are ravening wolves.
16 Ye shall know them by their fruits. Do men gather grapes of thorns, or figs of thistles?
17 Even so every good tree bringeth forth good fruit; but a corrupt tree bringeth forth evil fruit.
18 A good tree cannot bring forth evil fruit, neither can a corrupt tree bring forth good fruit.
19 Every tree that bringeth not forth good fruit is hewn down, and cast into the fire.
20 Wherefore by their fruits ye shall know them.
21 Not every one that saith unto me, Lord, Lord, shall enter into the kingdom of heaven; but he that doeth the will of my Father which is in heaven.
22 Many will say to me in that day, Lord, Lord, have we not prophesied in thy name? and in thy name have cast out devils? and in thy name done many wonderful works?
23 And then will I profess unto them, I never knew you: depart from me, ye that work iniquity.
24 Therefore whosoever heareth these sayings of mine, and doeth them, I will liken him unto a wise man, which built his house upon a rock:
25 And the rain descended, and the floods came, and the winds blew, and beat upon that house; and it fell not: for it was founded upon a rock.
26 And every one that heareth these sayings of mine, and doeth them not, shall be likened unto a foolish man, which built his house upon the sand:
27 And the rain descended, and the floods came, and the winds blew, and beat upon that house; and it fell: and great was the fall of it.
28 And it came to pass, when Jesus had ended these sayings, the people were astonished at his doctrine:
29 For he taught them as one having authority, and not as the scribes.
1 When he was come down from the mountain, great multitudes followed him.
2 And, behold, there came a leper and worshipped him, saying, Lord, if thou wilt, thou canst make me clean.
3 And Jesus put forth his hand, and touched him, saying, I will; be thou clean. And immediately his leprosy was cleansed.
4 And Jesus saith unto him, See thou tell no man; but go thy way, shew thyself to the priest, and offer the gift that Moses commanded, for a testimony unto them.
5 And when Jesus was entered into Capernaum, there came unto him a centurion, beseeching him,
6 And saying, Lord, my servant lieth at home sick of the palsy, grievously tormented.
7 And Jesus saith unto him, I will come and heal him.
8 The centurion answered and said, Lord, I am not worthy that thou shouldest come under my roof: but speak the word only, and my servant shall be healed.
9 For I am a man under authority, having under me soldiers, and I say to this man, Go, and he goeth; and to another, Come, and he cometh; and to my servant, Do this, and he doeth it.
10 When Jesus heard it, he marvelled, and said to them that followed, Verily I say unto you, I have not found so great faith, no, not in Israel.
11 And I say unto you, That many shall come from the east and west, and shall sit down with Abraham, and Isaac, and Jacob, in the kingdom of heaven:
12 But the children of the kingdom shall be cast out into outer darkness: there shall be weeping and gnashing of teeth.
13 And Jesus said unto the centurion, Go thy way; and as thou hast believed, so be it done unto thee. And his servant was healed in the selfsame hour.
14 And when Jesus was come into Peter's house, he saw his wife's mother laid, and sick of a fever.
15 And he touched her hand, and the fever left her: and she arose, and ministered unto them.
16 When the even was come, they brought unto him many that were possessed with devils: and he cast out the spirits with his word, and healed all that were sick:
17 That it might be fulfilled which was spoken by Esaias the prophet, saying, Himself took our infirmities, and bare our sicknesses.
18 Now when Jesus saw great multitudes about him, he gave commandment to depart unto the other side.
19 And a certain scribe came, and said unto him, Master, I will follow thee whithersoever thou goest.
20 And Jesus saith unto him, The foxes have holes, and the birds of the air have nests; but the Son of man hath not where to lay his head.
21 And another of his disciples said unto him, Lord, suffer me first to go and bury my father.
22 But Jesus said unto him, Follow me; and let the dead bury their dead.
23 And when he was entered into a ship, his disciples followed him.
24 And, behold, there arose a great tempest in the sea, insomuch that the ship was covered with the waves: but he was asleep.
25 And his disciples came to him, and awoke him, saying, Lord, save us: we perish.
26 And he saith unto them, Why are ye fearful, O ye of little faith? Then he arose, and rebuked the winds and the sea; and there was a great calm.
27 But the men marvelled, saying, What manner of man is this, that even the winds and the sea obey him!
28 And when he was come to the other side into the country of the Gergesenes, there met him two possessed with devils, coming out of the tombs, exceeding fierce, so that no man might pass by that way.
29 And, behold, they cried out, saying, What have we to do with thee, Jesus, thou Son of God? art thou come hither to torment us before the time?
30 And there was a good way off from them an herd of many swine feeding.
31 So the devils besought him, saying, If thou cast us out, suffer us to go away into the herd of swine.
32 And he said unto them, Go. And when they were come out, they went into the herd of swine: and, behold, the whole herd of swine ran violently down a steep place into the sea, and perished in the waters.
33 And they that kept them fled, and went their ways into the city, and told every thing, and what was befallen to the possessed of the devils.
34 And, behold, the whole city came out to meet Jesus: and when they saw him, they besought him that he would depart out of their coasts.
1 And he entered into a ship, and passed over, and came into his own city.
2 And, behold, they brought to him a man sick of the palsy, lying on a bed: and Jesus seeing their faith said unto the sick of the palsy; Son, be of good cheer; thy sins be forgiven thee.
3 And, behold, certain of the scribes said within themselves, This man blasphemeth.
4 And Jesus knowing their thoughts said, Wherefore think ye evil in your hearts?
5 For whether is easier, to say, Thy sins be forgiven thee; or to say, Arise, and walk?
6 But that ye may know that the Son of man hath power on earth to forgive sins, (then saith he to the sick of the palsy,) Arise, take up thy bed, and go unto thine house.
7 And he arose, and departed to his house.
8 But when the multitudes saw it, they marvelled, and glorified God, which had given such power unto men.
9 And as Jesus passed forth from thence, he saw a man, named Matthew, sitting at the receipt of custom: and he saith unto him, Follow me. And he arose, and followed him.
10 And it came to pass, as Jesus sat at meat in the house, behold, many publicans and sinners came and sat down with him and his disciples.
11 And when the Pharisees saw it, they said unto his disciples, Why eateth your Master with publicans and sinners?
12 But when Jesus heard that, he said unto them, They that be whole need not a physician, but they that are sick.
13 But go ye and learn what that meaneth, I will have mercy, and not sacrifice: for I am not come to call the righteous, but sinners to repentance.
14 Then came to him the disciples of John, saying, Why do we and the Pharisees fast oft, but thy disciples fast not?
15 And Jesus said unto them, Can the children of the bridechamber mourn, as long as the bridegroom is with them? but the days will come, when the bridegroom shall be taken from them, and then shall they fast.
16 No man putteth a piece of new cloth unto an old garment, for that which is put in to fill it up taketh from the garment, and the rent is made worse.
17 Neither do men put new wine into old bottles: else the bottles break, and the wine runneth out, and the bottles perish: but they put new wine into new bottles, and both are preserved.
18 While he spake these things unto them, behold, there came a certain ruler, and worshipped him, saying, My daughter is even now dead: but come and lay thy hand upon her, and she shall live.
19 And Jesus arose, and followed him, and so did his disciples.
20 And, behold, a woman, which was diseased with an issue of blood twelve years, came behind him, and touched the hem of his garment:
21 For she said within herself, If I may but touch his garment, I shall be whole.
22 But Jesus turned him about, and when he saw her, he said, Daughter, be of good comfort; thy faith hath made thee whole. And the woman was made whole from that hour.
23 And when Jesus came into the ruler's house, and saw the minstrels and the people making a noise,
24 He said unto them, Give place: for the maid is not dead, but sleepeth. And they laughed him to scorn.
25 But when the people were put forth, he went in, and took her by the hand, and the maid arose.
26 And the fame hereof went abroad into all that land.
27 And when Jesus departed thence, two blind men followed him, crying, and saying, Thou son of David, have mercy on us.
28 And when he was come into the house, the blind men came to him: and Jesus saith unto them, Believe ye that I am able to do this? They said unto him, Yea, Lord.
29 Then touched he their eyes, saying, According to your faith be it unto you.
30 And their eyes were opened; and Jesus straitly charged them, saying, See that no man know it.
31 But they, when they were departed, spread abroad his fame in all that country.
32 As they went out, behold, they brought to him a dumb man possessed with a devil.
33 And when the devil was cast out, the dumb spake: and the multitudes marvelled, saying, It was never so seen in Israel.
34 But the Pharisees said, He casteth out devils through the prince of the devils.
35 And Jesus went about all the cities and villages, teaching in their synagogues, and preaching the gospel of the kingdom, and healing every sickness and every disease among the people.
36 But when he saw the multitudes, he was moved with compassion on them, because they fainted, and were scattered abroad, as sheep having no shepherd.
37 Then saith he unto his disciples, The harvest truly is plenteous, but the labourers are few;
38 Pray ye therefore the Lord of the harvest, that he will send forth labourers into his harvest.
1 And when he had called unto him his twelve disciples, he gave them power against unclean spirits, to cast them out, and to heal all manner of sickness and all manner of disease.
2 Now the names of the twelve apostles are these; The first, Simon, who is called Peter, and Andrew his brother; James the son of Zebedee, and John his brother;
3 Philip, and Bartholomew; Thomas, and Matthew the publican; James the son of Alphaeus, and Lebbaeus, whose surname was Thaddaeus;
4 Simon the Canaanite, and Judas Iscariot, who also betrayed him.
5 These twelve Jesus sent forth, and commanded them, saying, Go not into the way of the Gentiles, and into any city of the Samaritans enter ye not:
6 But go rather to the lost sheep of the house of Israel.
7 And as ye go, preach, saying, The kingdom of heaven is at hand.
8 Heal the sick, cleanse the lepers, raise the dead, cast out devils: freely ye have received, freely give.
9 Provide neither gold, nor silver, nor brass in your purses,
10 Nor scrip for your journey, neither two coats, neither shoes, nor yet staves: for the workman is worthy of his meat.
11 And into whatsoever city or town ye shall enter, inquire who in it is worthy; and there abide till ye go thence.
12 And when ye come into a house, salute it.
13 And if the house be worthy, let your peace come upon it: but if it be not worthy, let your peace return to you.
14 And whosoever shall not receive you, nor hear your words, when ye depart out of that house or city, shake off the dust of your feet.
15 Verily I say unto you, It shall be more tolerable for the land of Sodom and Gomorrha in the day of judgment, than for that city.
16 Behold, I send you forth as sheep in the midst of wolves: be ye therefore wise as serpents, and harmless as doves.
17 But beware of men: for they will deliver you up to the councils, and they will scourge you in their synagogues;
18 And ye shall be brought before governors and kings for my sake, for a testimony against them and the Gentiles.
19 But when they deliver you up, take no thought how or what ye shall speak: for it shall be given you in that same hour what ye shall speak.
20 For it is not ye that speak, but the Spirit of your Father which speaketh in you.
21 And the brother shall deliver up the brother to death, and the father the child: and the children shall rise up against their parents, and cause them to be put to death.
22 And ye shall be hated of all men for my name's sake: but he that endureth to the end shall be saved.
23 But when they persecute you in this city, flee ye into another: for verily I say unto you, Ye shall not have gone over the cities of Israel, till the Son of man be come.
24 The disciple is not above his master, nor the servant above his lord.
25 It is enough for the disciple that he be as his master, and the servant as his lord. If they have called the master of the house Beelzebub, how much more shall they call them of his household?
26 Fear them not therefore: for there is nothing covered, that shall not be revealed; and hid, that shall not be known.
27 What I tell you in darkness, that speak ye in light: and what ye hear in the ear, that preach ye upon the housetops.
28 And fear not them which kill the body, but are not able to kill the soul: but rather fear him which is able to destroy both soul and body in hell.
29 Are not two sparrows sold for a farthing? and one of them shall not fall on the ground without your Father.
30 But the very hairs of your head are all numbered.
31 Fear ye not therefore, ye are of more value than many sparrows.
32 Whosoever therefore shall confess me before men, him will I confess also before my Father which is in heaven.
33 But whosoever shall deny me before men, him will I also deny before my Father which is in heaven.
34 Think not that I am come to send peace on earth: I came not to send peace, but a sword.
35 For I am come to set a man at variance against his father, and the daughter against her mother, and the daughter in law against her mother in law.
36 And a man's foes shall be they of his own household.
37 He that loveth father or mother more than me is not worthy of me: and he that loveth son or daughter more than me is not worthy of me.
38 And he that taketh not his cross, and followeth after me, is not worthy of me.
39 He that findeth his life shall lose it: and he that loseth his life for my sake shall find it.
40 He that receiveth you receiveth me, and he that receiveth me receiveth him that sent me.
41 He that receiveth a prophet in the name of a prophet shall receive a prophet's reward; and he that receiveth a righteous man in the name of a righteous man shall receive a righteous man's reward.
42 And whosoever shall give to drink unto one of these little ones a cup of cold water only in the name of a disciple, verily I say unto you, he shall in no wise lose his reward.
1 And it came to pass, when Jesus had made an end of commanding his twelve disciples, he departed thence to teach and to preach in their cities.
2 Now when John had heard in the prison the works of Christ, he sent two of his disciples,
3 And said unto him, Art thou he that should come, or do we look for another?
4 Jesus answered and said unto them, Go and shew John again those things which ye do hear and see:
5 The blind receive their sight, and the lame walk, the lepers are cleansed, and the deaf hear, the dead are raised up, and the poor have the gospel preached to them.
6 And blessed is he, whosoever shall not be offended in me.
7 And as they departed, Jesus began to say unto the multitudes concerning John, What went ye out into the wilderness for to see? A reed shaken with the wind?
8 But what went ye out for to see? A man clothed in soft raiment? behold, they that wear soft clothing are in kings' houses.
9 But what went ye out for to see? A prophet? yea, I say unto you, and much more than a prophet.
10 For this is he, of whom it is written, Behold, I send my messenger before thy face, which shall prepare thy way before thee.
11 Verily I say unto you, Among them that are born of women there hath not risen a greater than John the Baptist: notwithstanding he that is least in the kingdom of heaven is greater than he.
12 And from the days of John the Baptist until now the kingdom of heaven suffereth violence, and the violent take it by force.
13 For all the prophets and the law prophesied until John.
14 And if ye will receive it, this is Elias, which was for to come.
15 He that hath ears to hear, let him hear.
16 But whereunto shall I liken this generation? It is like unto children sitting in the markets, and calling unto their fellows,
17 And saying, We have piped unto you, and ye have not danced; we have mourned unto you, and ye have not lamented.
18 For John came neither eating nor drinking, and they say, He hath a devil.
19 The Son of man came eating and drinking, and they say, Behold a man gluttonous, and a wine bibber, a friend of publicans and sinners. But wisdom is justified of her children.
20 Then began he to upbraid the cities wherein most of his mighty works were done, because they repented not:
21 Woe unto thee, Chorazin! woe unto thee, Bethsaida! for if the mighty works, which were done in you, had been done in Tyre and Sidon, they would have repented long ago in sackcloth and ashes.
22 But I say unto you, It shall be more tolerable for Tyre and Sidon at the day of judgment, than for you.
23 And thou, Capernaum, which art exalted unto heaven, shalt be thrust down to hell: for if the mighty works, which have been done in thee, had been done in Sodom, it would have remained until this day.
24 But I say unto you, That it shall be more tolerable for the land of Sodom in the day of judgment, than for thee.
25 At that time Jesus answered and said, I thank thee, O Father, Lord of heaven and earth, because thou hast hid these things from the wise and prudent, and hast revealed them unto babes.
26 Even so, Father: for so it seemed good in thy sight.
27 All things are delivered unto me of my Father: and no man knoweth the Son, but the Father; neither knoweth any man the Father, save the Son, and he to whomsoever the Son will reveal him.
28 Come unto me, all ye that labour and are heavy laden, and I will give you rest.
29 Take my yoke upon you, and learn of me; for I am meek and lowly in heart: and ye shall find rest unto your souls.
30 For my yoke is easy, and my burden is light.
1 At that time Jesus went on the sabbath day through the corn; and his disciples were an hungred, and began to pluck the ears of corn, and to eat.
2 But when the Pharisees saw it, they said unto him, Behold, thy disciples do that which is not lawful to do upon the sabbath day.
3 But he said unto them, Have ye not read what David did, when he was an hungred, and they that were with him;
4 How he entered into the house of God, and did eat the shewbread, which was not lawful for him to eat, neither for them which were with him, but only for the priests?
5 Or have ye not read in the law, how that on the sabbath days the priests in the temple profane the sabbath, and are blameless?
6 But I say unto you, That in this place is one greater than the temple.
7 But if ye had known what this meaneth, I will have mercy, and not sacrifice, ye would not have condemned the guiltless.
8 For the Son of man is Lord even of the sabbath day.
9 And when he was gone thence, he went into their synagogue:
10 And, behold, there was a man which had his hand withered. And they asked him, saying, Is it lawful to heal on the sabbath days? that they might accuse him.
11 And he said unto them, What man shall there be among you, that shall have one sheep, and if it fall into a pit on the sabbath day, will he not lay hold on it, and lift it out?
12 How much then is a man better than a sheep? Wherefore it is lawful to do well on the sabbath days.
13 Then saith he to the man, Stretch forth thine hand. And he stretched it forth; and it was restored whole, like as the other.
14 Then the Pharisees went out, and held a council against him, how they might destroy him.
15 But when Jesus knew it, he withdrew himself from thence: and great multitudes followed him, and he healed them all;
16 And charged them that they should not make him known:
17 That it might be fulfilled which was spoken by Esaias the prophet, saying,
18 Behold my servant, whom I have chosen; my beloved, in whom my soul is well pleased: I will put my spirit upon him, and he shall shew judgment to the Gentiles.
19 He shall not strive, nor cry; neither shall any man hear his voice in the streets.
20 A bruised reed shall he not break, and smoking flax shall he not quench, till he send forth judgment unto victory.
21 And in his name shall the Gentiles trust.
22 Then was brought unto him one possessed with a devil, blind, and dumb: and he healed him, insomuch that the blind and dumb both spake and saw.
23 And all the people were amazed, and said, Is not this the son of David?
24 But when the Pharisees heard it, they said, This fellow doth not cast out devils, but by Beelzebub the prince of the devils.
25 And Jesus knew their thoughts, and said unto them, Every kingdom divided against itself is brought to desolation; and every city or house divided against itself shall not stand:
26 And if Satan cast out Satan, he is divided against himself; how shall then his kingdom stand?
27 And if I by Beelzebub cast out devils, by whom do your children cast them out? therefore they shall be your judges.
28 But if I cast out devils by the Spirit of God, then the kingdom of God is come unto you.
29 Or else how can one enter into a strong man's house, and spoil his goods, except he first bind the strong man? and then he will spoil his house.
30 He that is not with me is against me: and he that gathereth not with me scattereth abroad.
31 Wherefore I say unto you, All manner of sin and blasphemy shall be forgiven unto men: but the blasphemy against the Holy Ghost shall not be forgiven unto men.
32 And whosoever speaketh a word against the Son of man, it shall be forgiven him: but whosoever speaketh against the Holy Ghost, it shall not be forgiven him, neither in this world, neither in the world to come.
33 Either make the tree good, and his fruit good; or else make the tree corrupt, and his fruit corrupt: for the tree is known by his fruit.
34 O generation of vipers, how can ye, being evil, speak good things? for out of the abundance of the heart the mouth speaketh.
35 A good man out of the good treasure of the heart bringeth forth good things: and an evil man out of the evil treasure bringeth forth evil things.
36 But I say unto you, That every idle word that men shall speak, they shall give account thereof in the day of judgment.
37 For by thy words thou shalt be justified, and by thy words thou shalt be condemned.
38 Then certain of the scribes and of the Pharisees answered, saying, Master, we would see a sign from thee.
39 But he answered and said unto them, An evil and adulterous generation seeketh after a sign; and there shall no sign be given to it, but the sign of the prophet Jonas:
40 For as Jonas was three days and three nights in the whale's belly; so shall the Son of man be three days and three nights in the heart of the earth.
41 The men of Nineve shall rise in judgment with this generation, and shall condemn it: because they repented at the preaching of Jonas; and, behold, a greater than Jonas is here.
42 The queen of the south shall rise up in the judgment with this generation, and shall condemn it: for she came from the uttermost parts of the earth to hear the wisdom of Solomon; and, behold, a greater than Solomon is here.
43 When the unclean spirit is gone out of a man, he walketh through dry places, seeking rest, and findeth none.
44 Then he saith, I will return into my house from whence I came out; and when he is come, he findeth it empty, swept, and garnished.
45 Then goeth he, and taketh with himself seven other spirits more wicked than himself, and they enter in and dwell there: and the last state of that man is worse than the first. Even so shall it be also unto this wicked generation.
46 While he yet talked to the people, behold, his mother and his brethren stood without, desiring to speak with him.
47 Then one said unto him, Behold, thy mother and thy brethren stand without, desiring to speak with thee.
48 But he answered and said unto him that told him, Who is my mother? and who are my brethren?
49 And he stretched forth his hand toward his disciples, and said, Behold my mother and my brethren!
50 For whosoever shall do the will of my Father which is in heaven, the same is my brother, and sister, and mother.
1 The same day went Jesus out of the house, and sat by the sea side.
2 And great multitudes were gathered together unto him, so that he went into a ship, and sat; and the whole multitude stood on the shore.
3 And he spake many things unto them in parables, saying, Behold, a sower went forth to sow;
4 And when he sowed, some seeds fell by the way side, and the fowls came and devoured them up:
5 Some fell upon stony places, where they had not much earth: and forthwith they sprung up, because they had no deepness of earth:
6 And when the sun was up, they were scorched; and because they had no root, they withered away.
7 And some fell among thorns; and the thorns sprung up, and choked them:
8 But other fell into good ground, and brought forth fruit, some an hundredfold, some sixtyfold, some thirtyfold.
9 Who hath ears to hear, let him hear.
10 And the disciples came, and said unto him, Why speakest thou unto them in parables?
11 He answered and said unto them, Because it is given unto you to know the mysteries of the kingdom of heaven, but to them it is not given.
12 For whosoever hath, to him shall be given, and he shall have more abundance: but whosoever hath not, from him shall be taken away even that he hath.
13 Therefore speak I to them in parables: because they seeing see not; and hearing they hear not, neither do they understand.
14 And in them is fulfilled the prophecy of Esaias, which saith, By hearing ye shall hear, and shall not understand; and seeing ye shall see, and not perceive:
15 For this people's heart is waxed gross, and their ears are dull of hearing, and their eyes they have closed; lest at any time they should see with their eyes, and hear with their ears, and should understand with their heart, and should be converted, and I should heal them.
16 But blessed are your eyes, for they see: and your ears, for they hear.
17 For verily I say unto you, That many prophets and righteous men have desired to see those things which ye see, and have not seen them; and to hear those things which ye hear, and have not heard them.
18 Hear ye therefore the parable of the sower.
19 When any one heareth the word of the kingdom, and understandeth it not, then cometh the wicked one, and catcheth away that which was sown in his heart. This is he which received seed by the way side.
20 But he that received the seed into stony places, the same is he that heareth the word, and anon with joy receiveth it;
21 Yet hath he not root in himself, but dureth for a while: for when tribulation or persecution ariseth because of the word, by and by he is offended.
22 He also that received seed among the thorns is he that heareth the word; and the care of this world, and the deceitfulness of riches, choke the word, and he becometh unfruitful.
23 But he that received seed into the good ground is he that heareth the word, and understandeth it; which also beareth fruit, and bringeth forth, some an hundredfold, some sixtyfold, some thirtyfold.
24 Another parable put he forth unto them, saying, The kingdom of heaven is likened unto a man which sowed good seed in his field:
25 But while men slept, his enemy came and sowed tares among the wheat, and went his way.
26 But when the blade was sprung up, and brought forth fruit, then appeared the tares also.
27 So the servants of the householder came and said unto him, Sir, didst not thou sow good seed in thy field? from whence then hath it tares?
28 He said unto them, An enemy hath done this. The servants said unto him, Wilt thou then that we go and gather them up?
29 But he said, Nay; lest while ye gather up the tares, ye root up also the wheat with them.
30 Let both grow together until the harvest: and in the time of harvest I will say to the reapers, Gather ye together first the tares, and bind them in bundles to burn them: but gather the wheat into my barn.
31 Another parable put he forth unto them, saying, The kingdom of heaven is like to a grain of mustard seed, which a man took, and sowed in his field:
32 Which indeed is the least of all seeds: but when it is grown, it is the greatest among herbs, and becometh a tree, so that the birds of the air come and lodge in the branches thereof.
33 Another parable spake he unto them; The kingdom of heaven is like unto leaven, which a woman took, and hid in three measures of meal, till the whole was leavened.
34 All these things spake Jesus unto the multitude in parables; and without a parable spake he not unto them:
35 That it might be fulfilled which was spoken by the prophet, saying, I will open my mouth in parables; I will utter things which have been kept secret from the foundation of the world.
36 Then Jesus sent the multitude away, and went into the house: and his disciples came unto him, saying, Declare unto us the parable of the tares of the field.
37 He answered and said unto them, He that soweth the good seed is the Son of man;
38 The field is the world; the good seed are the children of the kingdom; but the tares are the children of the wicked one;
39 The enemy that sowed them is the devil; the harvest is the end of the world; and the reapers are the angels.
40 As therefore the tares are gathered and burned in the fire; so shall it be in the end of this world.
41 The Son of man shall send forth his angels, and they shall gather out of his kingdom all things that offend, and them which do iniquity;
42 And shall cast them into a furnace of fire: there shall be wailing and gnashing of teeth.
43 Then shall the righteous shine forth as the sun in the kingdom of their Father. Who hath ears to hear, let him hear.
44 Again, the kingdom of heaven is like unto treasure hid in a field; the which when a man hath found, he hideth, and for joy thereof goeth and selleth all that he hath, and buyeth that field.
45 Again, the kingdom of heaven is like unto a merchant man, seeking goodly pearls:
46 Who, when he had found one pearl of great price, went and sold all that he had, and bought it.
47 Again, the kingdom of heaven is like unto a net, that was cast into the sea, and gathered of every kind:
48 Which, when it was full, they drew to shore, and sat down,

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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1 CREATE TABLE `wp_commentmeta` (
2   `meta_id` bigint(20) unsigned NOT NULL auto_increment,
3   `comment_id` bigint(20) unsigned NOT NULL default '0',
4   `meta_key` varchar(255) default NULL,
5   `meta_value` longtext,
6   PRIMARY KEY  (`meta_id`),
7   KEY `comment_id` (`comment_id`),
8   KEY `meta_key` (`meta_key`)
9 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
10
11 CREATE TABLE `wp_comments` (
12   `comment_ID` bigint(20) unsigned NOT NULL auto_increment,
13   `comment_post_ID` bigint(20) unsigned NOT NULL default '0',
14   `comment_author` tinytext NOT NULL,
15   `comment_author_email` varchar(100) NOT NULL default '',
16   `comment_author_url` varchar(200) NOT NULL default '',
17   `comment_author_IP` varchar(100) NOT NULL default '',
18   `comment_date` datetime NOT NULL default '0000-00-00 00:00:00',
19   `comment_date_gmt` datetime NOT NULL default '0000-00-00 00:00:00',
20   `comment_content` text NOT NULL,
21   `comment_karma` int(11) NOT NULL default '0',
22   `comment_approved` varchar(20) NOT NULL default '1',
23   `comment_agent` varchar(255) NOT NULL default '',
24   `comment_type` varchar(20) NOT NULL default '',
25   `comment_parent` bigint(20) unsigned NOT NULL default '0',
26   `user_id` bigint(20) unsigned NOT NULL default '0',
27   PRIMARY KEY  (`comment_ID`),
28   KEY `comment_post_ID` (`comment_post_ID`),
29   KEY `comment_approved_date_gmt` (`comment_approved`,`comment_date_gmt`),
30   KEY `comment_date_gmt` (`comment_date_gmt`),
31   KEY `comment_parent` (`comment_parent`),
32   KEY `comment_author_email` (`comment_author_email`(10))
33 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
34
35 CREATE TABLE `wp_links` (
36   `link_id` bigint(20) unsigned NOT NULL auto_increment,
37   `link_url` varchar(255) NOT NULL default '',
38   `link_name` varchar(255) NOT NULL default '',
39   `link_image` varchar(255) NOT NULL default '',
40   `link_target` varchar(25) NOT NULL default '',
41   `link_description` varchar(255) NOT NULL default '',
42   `link_visible` varchar(20) NOT NULL default 'Y',
43   `link_owner` bigint(20) unsigned NOT NULL default '1',
44   `link_rating` int(11) NOT NULL default '0',
45   `link_updated` datetime NOT NULL default '0000-00-00 00:00:00',
46   `link_rel` varchar(255) NOT NULL default '',
47   `link_notes` mediumtext NOT NULL,
48   `link_rss` varchar(255) NOT NULL default '',
49   PRIMARY KEY  (`link_id`),
50   KEY `link_visible` (`link_visible`)
51 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
52
53 CREATE TABLE `wp_options` (
54   `option_id` bigint(20) unsigned NOT NULL auto_increment,
55   `option_name` varchar(191) NOT NULL default '',
56   `option_value` longtext NOT NULL,
57   `autoload` varchar(20) NOT NULL default 'yes',
58   PRIMARY KEY  (`option_id`),
59   UNIQUE KEY `option_name` (`option_name`)
60 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
61
62 CREATE TABLE `wp_postmeta` (
63   `meta_id` bigint(20) unsigned NOT NULL auto_increment,
64   `post_id` bigint(20) unsigned NOT NULL default '0',
65   `meta_key` varchar(255) default NULL,
66   `meta_value` longtext,
67   PRIMARY KEY  (`meta_id`),
68   KEY `post_id` (`post_id`),
69   KEY `meta_key` (`meta_key`)
70 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
71
72 CREATE TABLE `wp_posts` (
73   `ID` bigint(20) unsigned NOT NULL auto_increment,
74   `post_author` bigint(20) unsigned NOT NULL default '0',
75   `post_date` datetime NOT NULL default '0000-00-00 00:00:00',
76   `post_date_gmt` datetime NOT NULL default '0000-00-00 00:00:00',
77   `post_content` longtext NOT NULL,
78   `post_title` text NOT NULL,
79   `post_excerpt` text NOT NULL,
80   `post_status` varchar(20) NOT NULL default 'publish',
81   `comment_status` varchar(20) NOT NULL default 'open',
82   `ping_status` varchar(20) NOT NULL default 'open',
83   `post_password` varchar(255) NOT NULL default '',
84   `post_name` varchar(200) NOT NULL default '',
85   `to_ping` text NOT NULL,
86   `pinged` text NOT NULL,
87   `post_modified` datetime NOT NULL default '0000-00-00 00:00:00',
88   `post_modified_gmt` datetime NOT NULL default '0000-00-00 00:00:00',
89   `post_content_filtered` longtext NOT NULL,
90   `post_parent` bigint(20) unsigned NOT NULL default '0',
91   `guid` varchar(255) NOT NULL default '',
92   `menu_order` int(11) NOT NULL default '0',
93   `post_type` varchar(20) NOT NULL default 'post',
94   `post_mime_type` varchar(100) NOT NULL default '',
95   `comment_count` bigint(20) NOT NULL default '0',
96   PRIMARY KEY  (`ID`),
97   KEY `post_name` (`post_name`(191)),
98   KEY `type_status_date` (`post_type`,`post_status`,`post_date`,`ID`),
99   KEY `post_parent` (`post_parent`),
100   KEY `post_author` (`post_author`)
101 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
102
103 CREATE TABLE `wp_term_relationships` (
104   `object_id` bigint(20) unsigned NOT NULL default '0',
105   `term_taxonomy_id` bigint(20) unsigned NOT NULL default '0',
106   `term_order` int(11) NOT NULL default '0',
107   PRIMARY KEY  (`object_id`,`term_taxonomy_id`),
108   KEY `term_taxonomy_id` (`term_taxonomy_id`)
109 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
110
111 CREATE TABLE `wp_term_taxonomy` (
112   `term_taxonomy_id` bigint(20) unsigned NOT NULL auto_increment,
113   `term_id` bigint(20) unsigned NOT NULL default '0',
114   `taxonomy` varchar(32) NOT NULL default '',
115   `description` longtext NOT NULL,
116   `parent` bigint(20) unsigned NOT NULL default '0',
117   `count` bigint(20) NOT NULL default '0',
118   PRIMARY KEY  (`term_taxonomy_id`),
119   UNIQUE KEY `term_id_taxonomy` (`term_id`,`taxonomy`),
120   KEY `taxonomy` (`taxonomy`)
121 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
122
123 CREATE TABLE `wp_termmeta` (
124   `meta_id` bigint(20) unsigned NOT NULL auto_increment,
125   `term_id` bigint(20) unsigned NOT NULL default '0',
126   `meta_key` varchar(255) default NULL,
127   `meta_value` longtext,
128   PRIMARY KEY  (`meta_id`),
129   KEY `term_id` (`term_id`),
130   KEY `meta_key` (`meta_key`)
131 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
132
133 CREATE TABLE `wp_terms` (
134   `term_id` bigint(20) unsigned NOT NULL auto_increment,
135   `name` varchar(200) NOT NULL default '',
136   `slug` varchar(200) NOT NULL default '',
137   `term_group` bigint(10) NOT NULL default '0',
138   PRIMARY KEY  (`term_id`),
139   KEY `slug` (`slug`(191)),
140   KEY `name` (`name`(191))
141 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
142
143 CREATE TABLE `wp_usermeta` (
144   `umeta_id` bigint(20) unsigned NOT NULL auto_increment,
145   `user_id` bigint(20) unsigned NOT NULL default '0',
146   `meta_key` varchar(255) default NULL,
147   `meta_value` longtext,
148   PRIMARY KEY  (`umeta_id`),
149   KEY `user_id` (`user_id`),
150   KEY `meta_key` (`meta_key`)
151 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
152
153 CREATE TABLE `wp_users` (
154   `ID` bigint(20) unsigned NOT NULL auto_increment,
155   `user_login` varchar(60) NOT NULL default '',
156   `user_pass` varchar(255) NOT NULL default '',
157   `user_nicename` varchar(50) NOT NULL default '',
158   `user_email` varchar(100) NOT NULL default '',
159   `user_url` varchar(100) NOT NULL default '',
160   `user_registered` datetime NOT NULL default '0000-00-00 00:00:00',
161   `user_activation_key` varchar(255) NOT NULL default '',
162   `user_status` int(11) NOT NULL default '0',
163   `display_name` varchar(250) NOT NULL default '',
164   PRIMARY KEY  (`ID`),
165   KEY `user_login_key` (`user_login`),
166   KEY `user_nicename` (`user_nicename`),
167   KEY `user_email` (`user_email`)
168 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
169
170 CREATE TABLE `wp_wfBadLeechers` (
171   `IP` binary(4) NOT NULL,
172   `eMin` int(10) unsigned NOT NULL,
173   `eHour` int(10) unsigned NOT NULL,
174   `eDay` int(10) unsigned NOT NULL,
175   `leechMin` int(10) unsigned NOT NULL,
176   `leechHour` int(10) unsigned NOT NULL,
177   `leechDay` int(10) unsigned NOT NULL,
178   `lastUpdate` int(10) unsigned NOT NULL,
179   `blockedTime` int(10) unsigned NOT NULL,
180   PRIMARY KEY  (`IP`)
181 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
182
183 CREATE TABLE `wp_wfBlockedCommentLog` (
184   `IP` binary(4) NOT NULL,
185   `countryCode` char(2) NOT NULL,
186   `unixday` int(10) unsigned NOT NULL,
187   `blockCount` int(10) unsigned NOT NULL,
188   PRIMARY KEY  (`IP`,`unixday`)
189 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
190
191 CREATE TABLE `wp_wfBlocks` (
192   `id` int(11) NOT NULL auto_increment,
193   `type` tinyint(3) unsigned NOT NULL,
194   `IP` varbinary(16) NOT NULL,
195   `blockedTime` int(10) unsigned NOT NULL,
196   `reason` varchar(255) NOT NULL,
197   `lastAttempt` int(10) unsigned NOT NULL,
198   `blockedHits` int(10) unsigned NOT NULL,
199   `expiration` int(10) unsigned NOT NULL,
200   PRIMARY KEY  (`id`),
201   KEY `type` (`type`),
202   KEY `IP` (`IP`),
203   KEY `expiration` (`expiration`)
204 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
205
206 CREATE TABLE `wp_wfConfig` (
207   `name` varchar(191) NOT NULL,
208   `val` longblob,
209   `autoload` tinyint(3) unsigned NOT NULL DEFAULT '1',
210   PRIMARY KEY  (`name`)
211 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
212
213 CREATE TABLE `wp_wfCrawlers` (
214   `IP` binary(4) NOT NULL,
215   `patternSig` binary(16) NOT NULL,
216   `lastUpdate` int(10) unsigned NOT NULL,
217   `hitCount` int(10) unsigned NOT NULL,
218   `hitLimit` int(10) unsigned NOT NULL,
219   `status` enum('live','verified','unverified') NOT NULL,
220   PRIMARY KEY  (`IP`,`patternSig`)
221 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
222
223 CREATE TABLE `wp_wfFileMods` (
224   `filenameMD5` binary(16) NOT NULL,
225   `filename` varchar(1000) NOT NULL,
226   `knownFile` tinyint(3) unsigned NOT NULL,
227   `oldMD5` binary(16) NOT NULL,
228   `newMD5` binary(16) NOT NULL,
229   `SHASum` binary(20) NOT NULL,
230   `severity` tinyint(3) unsigned NOT NULL,
231   `isSafeFile` enum('?','1','0') NOT NULL,
232   `canDelete` enum('1','0') NOT NULL,
233   `canRestore` enum('1','0') NOT NULL,
234   PRIMARY KEY  (`filenameMD5`),
235   KEY `severity` (`severity`)
236 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
237
238 CREATE TABLE `wp_wfHits` (
239   `id` int(11) NOT NULL auto_increment,
240   `attackLogTime` double(17,6) unsigned NOT NULL,
241   `ctime` double(17,6) unsigned NOT NULL,
242   `IP` varbinary(16) NOT NULL,
243   `jsRun` tinyint(3) unsigned NOT NULL,
244   `statusCode` int(10) unsigned NOT NULL,
245   `isGoogle` tinyint(3) unsigned NOT NULL,
246   `userID` int(10) unsigned NOT NULL,
247   `newVisit` tinyint(3) unsigned NOT NULL,
248   `URL` varchar(1000) NOT NULL,
249   `referer` varchar(1000) NOT NULL,
250   `UA` varchar(512) NOT NULL,
251   `action` varchar(64) NOT NULL,
252   `actionData` blob,
253   PRIMARY KEY  (`id`),
254   KEY `attackLogTime` (`attackLogTime`),
255   KEY `ctime` (`ctime`),
256   KEY `IP` (`IP`),
257   KEY `statusCode` (`statusCode`),
258   KEY `isGoogle` (`isGoogle`),
259   KEY `userID` (`userID`),
260   KEY `newVisit` (`newVisit`),
261   KEY `jsRun` (`jsRun`)
262 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
263
264 CREATE TABLE `wp_wfHoover` (
265   `id` varchar(40) NOT NULL,
266   `hoover` longblob,
267   `addedTime` timestamp NOT NULL default CURRENT_TIMESTAMP,
268   PRIMARY KEY  (`id`)
269 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
270
271 CREATE TABLE `wp_wfIssues` (
272   `id` int(11) NOT NULL auto_increment,
273   `time` int(10) unsigned NOT NULL,
274   `status` varchar(10) NOT NULL,
275   `type` varchar(10) NOT NULL,
276   `severity` tinyint(3) unsigned NOT NULL,
277   `ignoreP` varbinary(32) NOT NULL,
278   `ignoreC` varbinary(32) NOT NULL,
279   `shortMsg` varchar(255) NOT NULL,
280   `longMsg` blob,
281   `data` blob,
282   PRIMARY KEY  (`id`),
283   KEY `ignoreP` (`ignoreP`),
284   KEY `ignoreC` (`ignoreC`)
285 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
286
287 CREATE TABLE `wp_wfKnownFileList` (
288   `id` int(11) NOT NULL auto_increment,
289   `path` varchar(1000) NOT NULL,
290   `dateAdded` int(10) unsigned NOT NULL,
291   PRIMARY KEY  (`id`)
292 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
293
294 CREATE TABLE `wp_wfLeechers` (
295   `IP` binary(4) NOT NULL,
296   `eMin` int(10) unsigned NOT NULL,
297   `eHour` int(10) unsigned NOT NULL,
298   `eDay` int(10) unsigned NOT NULL,
299   `leechMin` int(10) unsigned NOT NULL,
300   `leechHour` int(10) unsigned NOT NULL,
301   `leechDay` int(10) unsigned NOT NULL,
302   `lastUpdate` int(10) unsigned NOT NULL,
303   `blockedTime` int(10) unsigned NOT NULL,
304   PRIMARY KEY  (`IP`)
305 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
306
307 CREATE TABLE `wp_wfLocs` (
308   `IP` binary(4) NOT NULL,
309   `ctime` int(10) unsigned NOT NULL,
310   `failed` tinyint(3) unsigned NOT NULL,
311   `city` varchar(255) NOT NULL,
312   `region` varchar(255) NOT NULL,
313   `countryName` varchar(255) NOT NULL,
314   `countryCode` char(2) NOT NULL,
315   `lat` float NOT NULL,
316   `lon` float NOT NULL,
317   PRIMARY KEY  (`IP`)
318 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
319
320 CREATE TABLE `wp_wfLockedOut` (
321   `IP` binary(4) NOT NULL,
322   `blockedTime` int(10) unsigned NOT NULL,
323   `reason` varchar(255) NOT NULL,
324   `lastAttempt` int(10) unsigned NOT NULL,
325   `blockedHits` int(10) unsigned NOT NULL,
326   `expiration` int(10) unsigned NOT NULL,
327   PRIMARY KEY  (`IP`),
328   KEY `expiration` (`expiration`)
329 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
330
331 CREATE TABLE `wp_wfLogins` (
332   `id` int(11) NOT NULL auto_increment,
333   `hitID` int(10) unsigned NOT NULL,
334   `ctime` double(17,6) unsigned NOT NULL,
335   `IP` varbinary(16) NOT NULL,
336   `userID` int(10) unsigned NOT NULL,
337   `failed` tinyint(3) unsigned NOT NULL,
338   PRIMARY KEY  (`id`),
339   KEY `hitID` (`hitID`),
340   KEY `ctime` (`ctime`),
341   KEY `IP` (`IP`),
342   KEY `userID` (`userID`),
343   KEY `failed` (`failed`)
344 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
345
346 CREATE TABLE `wp_wfNetworkBlocksAdd` (
347   `id` int(11) NOT NULL auto_increment,
348   `type` tinyint(3) unsigned NOT NULL,
349   `IP` varbinary(16) NOT NULL,
350   `blockedTime` int(10) unsigned NOT NULL,
351   `reason` varchar(255) NOT NULL,
352   `expiration` int(10) unsigned NOT NULL,
353   PRIMARY KEY  (`id`),
354   KEY `type` (`type`),
355   KEY `IP` (`IP`),
356   KEY `expiration` (`expiration`)
357 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
358
359 CREATE TABLE `wp_wfNetworkBlocksDel` (
360   `id` int(11) NOT NULL auto_increment,
361   `type` tinyint(3) unsigned NOT NULL,
362   `IP` varbinary(16) NOT NULL,
363   `blockedTime` int(10) unsigned NOT NULL,
364   `reason` varchar(255) NOT NULL,
365   `expiration` int(10) unsigned NOT NULL,
366   PRIMARY KEY  (`id`),
367   KEY `type` (`type`),
368   KEY `IP` (`IP`),
369   KEY `expiration` (`expiration`)
370 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
371
372 CREATE TABLE `wp_wfNotifications` (
373   `id` varchar(40) NOT NULL,
374   `category` varchar(255) NOT NULL,
375   `priority` int(11) NOT NULL,
376   `html` blob,
377   `read` int(11) NOT NULL,
378   PRIMARY KEY  (`id`),
379   KEY `category` (`category`),
380   KEY `priority` (`priority`),
381   KEY `read` (`read`)
382 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
383
384 CREATE TABLE `wp_wfPageHits` (
385   `id` int(11) NOT NULL auto_increment,
386   `hitID` int(10) unsigned NOT NULL,
387   `URL` varchar(1000) NOT NULL,
388   PRIMARY KEY  (`id`),
389   KEY `hitID` (`hitID`)
390 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
391
392 CREATE TABLE `wp_wfReverseCache` (
393   `IP` binary(4) NOT NULL,
394   `host` varchar(255) NOT NULL,
395   `lastUpdate` int(10) unsigned NOT NULL,
396   PRIMARY KEY  (`IP`)
397 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
398
399 CREATE TABLE `wp_wfScanners` (
400   `id` int(11) NOT NULL auto_increment,
401   `type` tinyint(3) unsigned NOT NULL,
402   `IP` varbinary(16) NOT NULL,
403   `blockedTime` int(10) unsigned NOT NULL,
404   `reason` varchar(255) NOT NULL,
405   `lastAttempt` int(10) unsigned NOT NULL,
406   `blockedHits` int(10) unsigned NOT NULL,
407   `expiration` int(10) unsigned NOT NULL,
408   PRIMARY KEY  (`id`),
409   KEY `type` (`type`),
410   KEY `IP` (`IP`),
411   KEY `expiration` (`expiration`)
412 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
413
414 CREATE TABLE `wp_wfScanners` (
415   `id` int(11) NOT NULL auto_increment,
416   `type` tinyint(3) unsigned NOT NULL,
417   `IP` varbinary(16) NOT NULL,
418   `blockedTime` int(10) unsigned NOT NULL,
419   `reason` varchar(255) NOT NULL,
420   `lastAttempt` int(10) unsigned NOT NULL,
421   `blockedHits` int(10) unsigned NOT NULL,
422   `expiration` int(10) unsigned NOT NULL,
423   PRIMARY KEY  (`id`),
424   KEY `type` (`type`),
425   KEY `IP` (`IP`),
426   KEY `expiration` (`expiration`)
427 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
428
429 CREATE TABLE `wp_wfScanners` (
430   `id` int(11) NOT NULL auto_increment,
431   `type` tinyint(3) unsigned NOT NULL,
432   `IP` varbinary(16) NOT NULL,
433   `blockedTime` int(10) unsigned NOT NULL,
434   `reason` varchar(255) NOT NULL,
435   `lastAttempt` int(10) unsigned NOT NULL,
436   `blockedHits` int(10) unsigned NOT NULL,
437   `expiration` int(10) unsigned NOT NULL,
438   PRIMARY KEY  (`id`),
439   KEY `type` (`type`),
440   KEY `IP` (`IP`),
441   KEY `expiration` (`expiration`)
442 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
443
444 CREATE TABLE `wp_wfScanners` (
445   `id` int(11) NOT NULL auto_increment,
446   `type` tinyint(3) unsigned NOT NULL,
447   `IP` varbinary(16) NOT NULL,
448   `blockedTime` int(10) unsigned NOT NULL,
449   `reason` varchar(255) NOT NULL,
450   `lastAttempt` int(10) unsigned NOT NULL,
451   `blockedHits` int(10) unsigned NOT NULL,
452   `expiration` int(10) unsigned NOT NULL,
453   PRIMARY KEY  (`id`),
454   KEY `type` (`type`),
455   KEY `IP` (`IP`),
456   KEY `expiration` (`expiration`)
457 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
458
459 CREATE TABLE `wp_wfScanners` (
460   `id` int(11) NOT NULL auto_increment,
461   `type` tinyint(3) unsigned NOT NULL,
462   `IP` varbinary(16) NOT NULL,
463   `blockedTime` int(10) unsigned NOT NULL,
464   `reason` varchar(255) NOT NULL,
465   `lastAttempt` int(10) unsigned NOT NULL,
466   `blockedHits` int(10) unsigned NOT NULL,
467   `expiration` int(10) unsigned NOT NULL,
468   PRIMARY KEY  (`id`),
469   KEY `type` (`type`),
470   KEY `IP` (`IP`),
471   KEY `expiration` (`expiration`)
472 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
473
474 CREATE TABLE `wp_wfScanners` (
475   `id` int(11) NOT NULL auto_increment,
476   `type` tinyint(3) unsigned NOT NULL,
477   `IP` varbinary(16) NOT NULL,
478   `blockedTime` int(10) unsigned NOT NULL,
479   `reason` varchar(255) NOT NULL,
480   `lastAttempt` int(10) unsigned NOT NULL,
481   `blockedHits` int(10) unsigned NOT NULL,
482   `expiration` int(10) unsigned NOT NULL,
483   PRIMARY KEY  (`id`),
484   KEY `type` (`type`),
485   KEY `IP` (`IP`),
486   KEY `expiration` (`expiration`)
487 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
488
489 CREATE TABLE `wp_wfScanners` (
490   `id` int(11) NOT NULL auto_increment,
491   `type` tinyint(3) unsigned NOT NULL,
492   `IP` varbinary(16) NOT NULL,
493   `blockedTime` int(10) unsigned NOT NULL,
494   `reason` varchar(255) NOT NULL,
495   `lastAttempt` int(10) unsigned NOT NULL,
496   `blockedHits` int(10) unsigned NOT NULL,
497   `expiration` int(10) unsigned NOT NULL,
498   PRIMARY KEY  (`id`),
499   KEY `type` (`type`),
500   KEY `IP` (`IP`),
501   KEY `expiration` (`expiration`)
502 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
503
504 CREATE TABLE `wp_wfScanners` (
505   `id` int(11) NOT NULL auto_increment,
506   `type` tinyint(3) unsigned NOT NULL,
507   `IP` varbinary(16) NOT NULL,
508   `blockedTime` int(10) unsigned NOT NULL,
509   `reason` varchar(255) NOT NULL,
510   `lastAttempt` int(10) unsigned NOT NULL,
511   `blockedHits` int(10) unsigned NOT NULL,
512   `expiration` int(10) unsigned NOT NULL,
513   PRIMARY KEY  (`id`),
514   KEY `type` (`type`),
515   KEY `IP` (`IP`),
516   KEY `expiration` (`expiration`)
517 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
518
519 CREATE TABLE `wp_wfScanners` (
520   `id` int(11) NOT NULL auto_increment,
521   `type` tinyint(3) unsigned NOT NULL,
522   `IP` varbinary(16) NOT NULL,
523   `blockedTime` int(10) unsigned NOT NULL,
524   `reason` varchar(255) NOT NULL,
525   `lastAttempt` int(10) unsigned NOT NULL,
526   `blockedHits` int(10) unsigned NOT NULL,
527   `expiration` int(10) unsigned NOT NULL,
528   PRIMARY KEY  (`id`),
529   KEY `type` (`type`),
530   KEY `IP` (`IP`),
531   KEY `expiration` (`expiration`)
532 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
533
534 CREATE TABLE `wp_wfScanners` (
535   `id` int(11) NOT NULL auto_increment,
536   `type` tinyint(3) unsigned NOT NULL,
537   `IP` varbinary(16) NOT NULL,
538   `blockedTime` int(10) unsigned NOT NULL,
539   `reason` varchar(255) NOT NULL,
540   `lastAttempt` int(10) unsigned NOT NULL,
541   `blockedHits` int(10) unsigned NOT NULL,
542   `expiration` int(10) unsigned NOT NULL,
543   PRIMARY KEY  (`id`),
544   KEY `type` (`type`),
545   KEY `IP` (`IP`),
546   KEY `expiration` (`expiration`)
547 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
548
549 CREATE TABLE `wp_wfScanners` (
550   `id` int(11) NOT NULL auto_increment,
551   `type` tinyint(3) unsigned NOT NULL,
552   `IP` varbinary(16) NOT NULL,
553   `blockedTime` int(10) unsigned NOT NULL,
554   `reason` varchar(255) NOT NULL,
555   `lastAttempt` int(10) unsigned NOT NULL,
556   `blockedHits` int(10) unsigned NOT NULL,
557   `expiration` int(10) unsigned NOT NULL,
558   PRIMARY KEY  (`id`),
559   KEY `type` (`type`),
560   KEY `IP` (`IP`),
561   KEY `expiration` (`expiration`)
562 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
563
564 CREATE TABLE `wp_wfScanners` (
565   `id` int(11) NOT NULL auto_increment,
566   `type` tinyint(3) unsigned NOT NULL,
567   `IP` varbinary(16) NOT NULL,
568   `blockedTime` int(10) unsigned NOT NULL,
569   `reason` varchar(255) NOT NULL,
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572   `expiration` int(10) unsigned NOT NULL,
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574   KEY `type` (`type`),
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577 ) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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Ben is a 10 year old boy who lives in a small village in the countryside. He has a big family with many brothers and sisters. He likes to play with his friends and his dog. He also likes to help his mom and dad with the chores. He is very kind and polite to everyone he meets. He is a good student and he likes to learn new things. He has a special interest in animals and he wants to be a vet when he grows up. He has a lot of books about animals and he reads them every day. He also has a pet rabbit named Fluffy. He takes care of Fluffy and he feeds her and plays with her. He loves Fluffy very much and she is his best friend. One day, Ben and his friends decide to go on an adventure in the forest. They pack their bags with food and water and they start walking. They see many trees and flowers and they hear birds singing. They also see some deer and they try to follow them. They have fun exploring the forest and they learn a lot about nature. They also find a big rock and they climb on it. They have a picnic on the rock and they eat their food. They are very happy and they enjoy the day. They also take some pictures and they collect some leaves and sticks. They want to show them to their parents and their teachers. They walk back to the village and they tell their parents about their adventure. They show them the pictures and the leaves and sticks. They are very proud of themselves and they feel very tired. They go to bed early and they sleep well. They dream about the forest and the animals and the rock. They wake up the next day and they go to school. They tell their teachers about their adventure and they show them the pictures and the leaves and sticks. They are very happy and they enjoy the day. They also learn some new things about nature and they write a story about their adventure. They are very creative and they like to write stories. They also like to draw and they draw a picture of the rock and the forest. They are very good at drawing and they like to draw animals. They also like to draw their family and their friends. They are very artistic and they like to express themselves. They also like to sing and they sing a song about the forest and the animals. They are very musical and they like to sing with their friends. They also like to dance and they dance to the song. They are very energetic and they like to move. They also like to play sports and they play soccer and basketball. They are very athletic and they like to compete. They also like to win and they win a trophy for soccer. They are very proud of themselves and they feel very happy. They also like to lose and they lose a game of basketball. They are very sad and they feel very disappointed. They also like to learn from their mistakes and they practice more. They are very determined and they like to improve. They also like to help others and they help their friends with their homework. They are very generous and they like to share. They also like to listen and they listen to their parents and their teachers. They are very respectful and they like to obey. They also like to ask questions and they ask why and how. They are very curious and they like to explore. They also like to read and they read books about science and history. They are very smart and they like to learn. They also like to think and they think about the future and the past. They are very wise and they like to reflect. They also like to dream and they dream about being a vet and helping animals. They are very hopeful and they like to imagine. They also like to pray and they pray to God and thank him for their blessings. They are very faithful and they like to worship. They also like to sleep and they sleep for eight hours every night. They are very healthy and they like to rest. They also like to eat and they eat fruits and vegetables and meat and fish. They are very nutritious and they like to balance. They also like to drink and they drink water and milk and juice. They are very hydrated and they like to quench. They also like to wash and they wash their hands and their face and their body. They are very clean and they like to hygiene. They also like to brush and they brush their teeth and their hair. They are very neat and they like to groom. They also like to dress and they dress in clothes and shoes and hats. They are very fashionable and they like to style. They also like to shop and they shop for toys and books and games. They are very consumerist and they like to buy. They also like to save and they save money in a piggy bank and a bank account. They are very frugal and they like to budget. They also like to invest and they invest in stocks and bonds and mutual funds. They are very financial and they like to grow. They also like to donate and they donate to charity and to the poor and to the homeless. They are very philanthropic and they like to give. They also like to volunteer and they volunteer at the soup kitchen and at the animal shelter and at the hospital. They are very altruistic and they like to serve. They also like to travel and they travel to different countries and different cultures and different languages. They are very cosmopolitan and they like to explore. They also like to learn and they learn how to speak and how to write and how to read. They are very literate and they like to communicate. They also like to teach and they teach their younger siblings and their younger cousins and their younger friends. They are very educational and they like to inspire. They also like to lead and they lead their group and their team and their class. They are very leadership and they like to motivate. They also like to follow and they follow the rules and the laws and the norms. They are very obedient and they like to conform. They also like to question and they question the authority and the status quo and the tradition. They are very critical and they like to challenge. They also like to change and they change their mind and their opinion and their behavior. They are very flexible and they like to adapt. They also like to innovate and they innovate new ideas and new products and new services. They are very creative and they like to invent. They also like to collaborate and they collaborate with their partners and their colleagues and their customers. They are very cooperative and they like to network. They also like to compete and they compete with their rivals and their enemies and their opponents. They are very competitive and they like to win. They also like to lose and they lose a game of chess and a game of poker and a game of video games. They are very sad and they like to cry. They also like to laugh and they laugh at jokes and at memes and at funny videos. They are very humorous and they like to entertain. They also like to watch and they watch movies and TV shows and sports and news. They are very entertained and they like to relax. They also like to listen and they listen to music and podcasts and audiobooks and radio. They are very musical and they like to enjoy. They also like to read and they read books and magazines and newspapers and blogs. They are very literate and they like to learn. They also like to write and they write emails and letters and reports and essays. They are very communicative and they like to express. They also like to speak and they speak in public and in private and in formal and in informal. They are very eloquent and they like to persuade. They also like to argue and they argue with their parents and their siblings and their friends and their teachers. They are very assertive and they like to defend. They also like to apologize and they apologize when they are wrong and when they hurt someone and when they offend someone. They are very humble and they like to forgive. They also like to thank and they thank their parents and their teachers and their friends and their God. They are very grateful and they like to appreciate. They also like to praise and they praise their achievements and their qualities and their efforts. They are very confident and they like to boast. They also like to criticize and they criticize their mistakes and their flaws and their weaknesses. They are very self-aware and they like to improve. They also like to compare and they compare themselves to others and to their past and to their future. They are very reflective and they like to evaluate. They also like to set goals and they set goals for their academic and their personal and their professional life. They are very ambitious and they like to achieve. They also like to plan and they plan their time and their budget and their resources. They are very organized and they like to manage. They also like to prioritize and they prioritize their tasks and their values and their interests. They are very focused and they like to concentrate. They also like to multitask and they multitask when they study and when they work and when they play. They are very efficient and they like to optimize. They also like to procrastinate and they procrastinate when they are bored and when they are tired and when they are stressed. They are very lazy and they like to relax. They also like to exercise and they exercise their body and their mind and their soul. They are very fit and they like to stay. They also like to meditate and they meditate to calm their mind and to reduce their stress and to increase their happiness. They are very peaceful and they like to enjoy. They also like to socialize and they socialize with their family and their friends and their neighbors and their community. They are very sociable and they like to connect. They also like to date and they date their boyfriend or their girlfriend and they go to the movies and to the restaurant and to the park. They are very romantic and they like to love. They also like to marry and they marry their soulmate and they have a wedding and a honeymoon and a reception. They are very happy and they like to celebrate. They also like to have children and they have children and they raise children and they teach children and they love children. They are very parental and they like to nurture. They also like to grow old and they grow old and they retire and they travel and they relax and they enjoy their grandchildren and their great-grandchildren. They are very wise and they like to share. They also like to die and they die peacefully and they go to heaven and they meet God and they see their loved ones and they rest in peace. They are very blessed and they like to eternity. They also like to be born again and they are born again and they start a new life and they have a new name and they have a new family and they have a new purpose and they have a new destiny. They are very reborn and they like to transform. They also like to be enlightened and they are enlightened and they understand the truth and they see the light and they are free and they are one with the universe and they are one with God and they are one with everything and they are one with nothing and they are one with themselves and they are one with their soul and they are one with their spirit and they are one with their body and they are one with their mind and they are one with their heart and they are one with their love and they are one with their peace and they are one with their joy and they are one with their happiness and they are one with their bliss and they are one with their ecstasy and they are one with their nirvana and they are one with their moksha and they are one with their samadhi and they are one with their satori and they are one with their kensho and they are one with their buddhahood and they are one with their christhood and they are one with their godhood and they are one with their divinity and they are one with their infinity and they are one with their eternity and they are one with their timelessness and they are one with their spacelessness and they are one with their formlessness and they are one with their emptiness and they are one with their fullness and they are one with their oneness and they are one with their allness and they are one with their everything and they are one with their nothing and they are one with their something and they are one with their anything and they are one with their all and they are one with their none and they are one with their some and they are one with their any and they are one with their every and they are one with their each and they are one with their other and they are one with their self and they are one with their not-self and they are one with their self-not-self and they are one with their not-self-not-self and they are one with their self-self and they are one with their not-self-self and they are one with their 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not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with 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self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their 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not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their 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self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their not-self-not-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self-self and they are one with their self-self-self-self-self-self

[1] 0.0 0.0 0.0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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0x0000  0x0000  0x0000  
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[1] 0.0 0.0 0.0
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[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

the a to and of in that it is was he for on are as with his they at be this have from or one had by word but not what all were we when your can said there use an each which she do how their if will up other about out many then them these so some her would make like him into time has look two more write go see number no way could people my than first water been call who oil its now find long down day did get come made may part over new sound take only little work know place year live me back give most very after thing our just name good sentence man think say great where help through much before line right too mean old any same tell boy follow came want show also around form three small set put end does another well large must big even such because turn here why ask went men read need land different home us move try kind hand picture again change off play spell air away animal house point page letter mother answer found study still learn should america world high every near add food between own below country plant last school father keep tree never start city earth eye light thought head under story saw left don't few while along might close something seem next hard open example begin life always those both paper together got group often run important until children side feet car mile night walk white sea began grow took river four carry state once book hear stop without second late miss idea enough eat face watch far indian really almost let above girl sometimes mountain cut young talk soon list song being leave family it's body music color stand sun questions fish area mark dog horse birds problem complete room knew since ever piece told usually didn't friends easy heard order red door sure become top ship across today during short better best however low hours black products happened whole measure remember early waves reached listen wind rock space covered fast several hold himself toward five step morning passed vowel true hundred against pattern numeral table north slowly money map farm pulled draw voice seen cold cried plan notice south sing war ground fall king town I'll unit figure certain field travel wood fire upon done english road half ten fly gave box finally wait correct oh quickly person became shown minutes strong verb stood front feel fact inches street decimal multiply nothing course stay wheel full force blue object decide surface deep moon island foot yet busy test record boat common gold possible plane age dry wonder laugh thousands ago ran check game shape yes hot miles brought heat snow bring yourself soil basic hair language shall

[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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[1] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

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[1] 0.0 0.0 0.0

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]

```
  1 /*
  2  * Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rights reserved.
  3  * DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.
  4  *
  5  * This code is free software; you can redistribute it and/or modify it
  6  * under the terms of the GNU General Public License version 2 only, as
  7  * published by the Free Software Foundation.  Oracle designates this
  8  * particular file as subject to the "Classpath" exception as provided
  9  * by Oracle in the LICENSE file that accompanied this code.
 10  *
 11  * This code is distributed in the hope that it will be useful, but WITHOUT
 12  * ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 13  * FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
 14  * version 2 for more details (a copy is included in the LICENSE file that
 15  * accompanied this code).
 16  *
 17  * You should have received a copy of the GNU General Public License version
 18  * 2 along with this work; if not, write to the Free Software Foundation,
 19  * Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
 20  *
 21  * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 22  * or visit www.oracle.com if you need additional information or have any
 23  * questions.
 24  */
 25 
 26 package java.util;
 27 
 28 import java.io.*;
 29 import java.lang.reflect.*;
 30 import java.net.URL;
 31 import java.nio.charset.Charset;
 32 import java.security.AccessController;
 33 import java.security.PrivilegedAction;
 34 import java.util.concurrent.ConcurrentHashMap;
 35 import java.util.concurrent.ConcurrentMap;
 36 import java.util.function.Function;
 37 import java.util.jar.JarEntry;
 38 import java.util.jar.JarFile;
 39 import java.util.stream.Stream;
 40 import java.util.stream.StreamSupport;
 41 import sun.reflect.CallerSensitive;
 42 import sun.reflect.Reflection;
 43 import sun.reflect.misc.ReflectUtil;
 44 import sun.security.util.SecurityConstants;
 45 
 46 /**
 47  * A service-provider loading facility.
 48  *
 49  * <p> A <i>service</i> is a well-known set of interfaces and (usually
 50  * abstract) classes.  A <i>service provider</i> is a specific implementation
 51  * of a service.  The classes in a provider typically implement the interfaces
 52  * and subclass the classes defined in the service itself.  Service providers
 53  * can be installed in an implementation of the Java platform in the form of
 54  * extensions, that is, jar files placed into any of the usual extension
 55  * directories.  Providers can also be made available by adding them to the
 56  * application's class path or by some other platform-specific means.
 57  *
 58  * <p> For the purpose of loading, a service is represented by a single type
 59  * (a class or interface).  A provider consists of one or more concrete
 60  * classes that extend this type with data and code specific to the provider.
 61  * The provider class is typically not the type that is visible to the
 62  * application that uses the service.
 63  *
 64  * <p> In order to be found, a provider must have a <i>configuration file</i>
 65  * named after the service type that is present in the resource directory
 66  * <tt>META-INF/services</tt>.  The configuration file contains a list of
 67  * fully-qualified binary names of service providers, one per line.  For
 68  * example, if the service type is <tt>com.example.CodecSet</tt> then the
 69  * configuration file named <tt>META-INF/services/com.example.CodecSet</tt>
 70  * might contain the line:
 71  *
 72  * <blockquote><pre>
 73  * com.example.impl.StandardCodecs    # Standard codecs
 74  * </pre></blockquote>
 75  *
 76  * <p> The configuration file must be encoded in UTF-8.  Whitespace and blank
 77  * lines are ignored, as is anything following a <tt>'#'</tt> (both are
 78  * necessary in order to allow human-readable annotations).  Duplicate
 79  * entries are ignored.
 80  *
 81  * <p> Service providers are located and instantiated lazily, that is, on
 82  * demand.  A service loader maintains a cache of the providers that have been
 83  * loaded so far.  Each invocation of the {@link #iterator iterator} method
 84  * returns an iterator that first yields all of the elements of the cache, in
 85  * instantiation order, and then lazily locates and instantiates any remaining
 86  * providers, adding each one to the cache in turn.  The cache can be cleared
 87  * via the {@link #reload reload} method.
 88  *
 89  * <p> Service loaders always execute in the security context of the caller
 90  * of the iterator or stream methods and may also be restricted by the
 91  * security context of the caller that created the service loader
 92  * instance. Trusted system code should typically invoke the methods in this
 93  * class, and the methods of the iterators which they return, from within a
 94  * privileged security context.
 95  *
 96  * <p> Instances of this class are not safe for use by multiple concurrent
 97  * threads.
 98  *
 99  * <p> Unless otherwise specified, passing a <tt>null</tt> argument to any
100  * method in this class will cause a {@link NullPointerException} to be thrown.
101  *
102  *
103  * <p><b>Example</b>
104  *
105  * <p> Suppose we have a service type <tt>com.example.CodecSet</tt> which is
106  * intended to represent sets of encoder/decoder pairs for some protocol.  In
107  * this case it is an abstract class with two abstract methods:
108  *
109  * <blockquote><pre>
110  * public abstract Encoder getEncoder(String encodingName);
111  * public abstract Decoder getDecoder(String encodingName);
112  * </pre></blockquote>
113  *
114  * <p> Each method returns an appropriate object or <tt>null</tt> if the
115  * provider does not support the given encoding.  Typical providers support
116  * more than one encoding.
117  *
118  * <p> If the provider class has a public, no-argument constructor then it
119  * will be instantiated directly.  Otherwise it is assumed that the provider
120  * class is a static nested class that has a public, no-argument constructor
121  * and it will be instantiated reflectively.  In either case the provider
122  * class must be visible to the class loader that was initially queried to
123  * locate the configuration file; if not then the configuration file will be
124  * ignored.
125  *
126  * <p> After locating each provider class, the class is instantiated and then
127  * cast to the type of the service.  If the cast is successful then the
128  * provider is added to the cache.  Its getter will be returned by the next
129  * invocation of the iterator.
130  *
131  * <p> Providers are cached by the service loader permanently, but the
132  * {@link #reload reload} method may be invoked to clear the cache, causing
133  * all providers to be discarded.  This is useful in long-running applications
134  * that wish to recognize upgraded providers without restarting the invoking
135  * virtual machine.
136  *
137  * <p> Suppose the two providers in our example are <tt>com.example.impl.StandardCodecs</tt>
138  * and <tt>com.example.impl.ExtendedCodecs</tt>.  The former class has a
139  * public, no-argument constructor while the latter does not.  The former
140  * class is an appropriate provider class while the latter is not.  The
141  * configuration file named above will be ignored if the invoker's class
142  * loader is not the system class loader, or an ancestor thereof, since that
143  * class loader must be queried in order to locate the configuration file.
144  *
145  * <p> Because it is possible to attempt to load non-existent provider
146  * classes, and because it is possible for a provider class to have a
147  * dependency on some other class that is not present, there are many kinds of
148  * errors that can occur while locating providers.  All of these errors are
149  * wrapped in instances of {@link ServiceConfigurationError}.
150  *
151  * <p> Unless otherwise specified, passing a <tt>null</tt> argument to any
152  * method in this class will cause a {@link NullPointerException} to be thrown.
153  *
154  * @author Mark Reinhold
155  * @see ServiceConfigurationError
156  * @since 1.6
157  */
158 
159 public final class ServiceLoader<S>
160     implements Iterable<S>
161 {
162 
163     private static final String PREFIX = "META-INF/services/";
164 
165     // The class or interface representing the service being loaded
166     private final Class<S> service;
167 
168     // The class loader used to locate, load, and instantiate providers
169     private final ClassLoader loader;
170 
171     // The access control context taken when the ServiceLoader is created
172     private final AccessControlContext acc;
173 
174     // Cached providers, in instantiation order
175     private LinkedHashMap<String,S> providers = new LinkedHashMap<>();
176 
177     // The current lazy-lookup iterator
178     private LazyIterator lookupIterator;
179 
180     /**
181      * Clear this loader's provider cache so that all providers will be
182      * reloaded.
183      *
184      * After invoking this method, subsequent invocations of the {@link
185      * #iterator() iterator} method will lazily look up and instantiate
186      * providers from scratch, just as is done by a newly-created loader.
187      *
188      * <p> This method is intended for use in situations in which new providers
189      * can be installed into a running Java virtual machine.
190      */
191     public void reload() {
192         providers.clear();
193         lookupIterator = new LazyIterator(service, loader);
194     }
195 
196     private ServiceLoader(Class<S> svc, ClassLoader cl) {
197         service = Objects.requireNonNull(svc, "Service interface cannot be null");
198         loader = (cl == null) ? ClassLoader.getSystemClassLoader() : cl;
199         acc = (System.getSecurityManager() != null) ? AccessController.getContext() : null;
200         reload();
201     }
202 
203     private static void fail(Class<?> service, String msg, Throwable cause)
204         throws ServiceConfigurationError
205     {
206         throw new ServiceConfigurationError(service.getName() + ": " + msg,
207                                             cause);
208     }
209 
210     private static void fail(Class<?> service, String msg)
211         throws ServiceConfigurationError
212     {
213         throw new ServiceConfigurationError(service.getName() + ": " + msg);
214     }
215 
216     private static void fail(Class<?> service, URL u, int line, String msg)
217         throws ServiceConfigurationError
218     {
219         fail(service, u + ":" + line + ": " + msg);
220     }
221 
222     // Parse a single line from the given configuration file, adding the name
223     // on the line to the names list.
224     //
225     private int parseLine(Class<?> service, URL u, BufferedReader r, int lc,
226                           List<String> names)
227         throws IOException, ServiceConfigurationError
228     {
229         String ln = r.readLine();
230         if (ln == null) {
231             return -1;
232         }
233         int ci = ln.indexOf('#');
234         if (ci >= 0) ln = ln.substring(0, ci);
235         ln = ln.trim();
236         int n = ln.length();
237         if (n != 0) {
238             if ((ln.indexOf(' ') >= 0) || (ln.indexOf('\t') >= 0))
239                 fail(service, u, lc, "Illegal configuration-file syntax");
240             int cp = ln.codePointAt(0);
241             if (!Character.isJavaIdentifierStart(cp))
242                 fail(service, u, lc, "Illegal provider-class name: " + ln);
243             int start = Character.charCount(cp);
244             for (int i = start; i < n; i += Character.charCount(cp)) {
245                 cp = ln.codePointAt(i);
246                 if (!Character.isJavaIdentifierPart(cp) && (cp != '.'))
247                     fail(service, u, lc, "Illegal provider-class name: " + ln);
248             }
249             if (!providers.containsKey(ln) && !names.contains(ln))
250                 names.add(ln);
251         }
252         return lc + 1;
253     }
254 
255     // Parse the content of the given URL, adding the names to the given list.
256     //
257     private int parse(Class<?> service, URL u, BufferedReader r, int lc,
258                       List<String> names)
259         throws IOException, ServiceConfigurationError
260     {
261         int lc2;
262         while ((lc2 = parseLine(service, u, r, lc, names)) >= 0)
263             lc = lc2;
264         return lc;
265     }
266 
267     // Private inner class implementing fully-lazy provider lookup
268     //
269     private class LazyIterator
270         implements Iterator<S>
271     {
272         Class<S> service;
273         ClassLoader loader;
274         Enumeration<URL> configs = null;
275         Iterator<String> pending = null;
276         String nextName = null;
277 
278         private LazyIterator(Class<S> service, ClassLoader loader) {
279             this.service = service;
280             this.loader = loader;
281         }
282 
283         public boolean hasNext() {
284             if (acc == null) {
285                 return hasNextService();
286             } else {
287                 PrivilegedAction<Boolean> action = new PrivilegedAction<Boolean>() {
288                     public Boolean run() { return hasNextService(); }
289                 };
290                 return AccessController.doPrivileged(action, acc);
291             }
292         }
293 
294         public S next() {
295             if (acc == null) {
296                 return nextService();
297             } else {
298                 PrivilegedAction<S> action = new PrivilegedAction<S>() {
299                     public S run() { return nextService(); }
300                 };
301                 return AccessController.doPrivileged(action, acc);
302             }
303         }
304 
305         public void remove() {
306             throw new UnsupportedOperationException();
307         }
308 
309         boolean hasNextService() {
310             if (nextName != null) {
311                 return true;
312             }
313             if (configs == null) {
314                 try {
315                     String fullName = PREFIX + service.getName();
316                     if (loader == null)
317                         configs = ClassLoader.getSystemResources(fullName);
318                     else
319                         configs = loader.getResources(fullName);
320                 } catch (IOException x) {
321                     fail(service, "Error locating configuration files", x);
322                 }
323             }
324             while ((pending == null) || !pending.hasNext()) {
325                 if (!configs.hasMoreElements()) {
326                     return false;
327                 }
328                 pending = parse(service, configs.nextElement());
329             }
330             nextName = pending.next();
331             return true;
332         }
333 
334         S nextService() {
335             if (!hasNextService())
336                 throw new NoSuchElementException();
337             String cn = nextName;
338             nextName = null;
339             Class<?> c = null;
340             try {
341                 c = Class.forName(cn, false, loader);
342             } catch (ClassNotFoundException x) {
343                 fail(service,
344                      "Provider " + cn + " not found");
345             }
346             if (!service.isAssignableFrom(c)) {
347                 fail(service,
348                      "Provider " + cn  + " not a subtype");
349             }
350             try {
351                 S p = service.cast(c.newInstance());
352                 providers.put(cn, p);
353                 return p;
354             } catch (Throwable x) {
355                 fail(service,
356                      "Provider " + cn + " could not be instantiated",
357                      x);
358             }
359             throw new Error();          // This cannot happen
360         }
361 
362         private Iterator<String> parse(URL u) {
363             InputStream in = null;
364             BufferedReader r = null;
365             ArrayList<String> names = new ArrayList<>();
366             try {
367                 in = u.openStream();
368                 r = new BufferedReader(new InputStreamReader(in, "utf-8"));
369                 int lc = 1;
370                 while ((lc = parseLine(service, u, r, lc, names)) >= 0);
371             } catch (IOException x) {
372                 fail(service, "Error reading configuration file", x);
373             } finally {
374                 try {
375                     if (r != null) r.close();
376                     if (in != null) in.close();
377                 } catch (IOException y) {
378                     fail(service, "Error closing configuration file", y);
379                 }
380             }
381             return names.iterator();
382         }
383     }
384 
385     /**
386      * Lazily loads the available providers of this loader's service.
387      *
388      * <p> The iterator returned by this method first yields all of the
389      * elements of the provider cache, in instantiation order.  It then lazily
390      * loads and instantiates any remaining providers, adding each one to the
391      * cache in turn.
392      *
393      * <p> To achieve laziness the actual work of parsing the available
394      * provider-configuration files and instantiating providers must be done by
395      * the iterator itself.  Its {@link java.util.Iterator#hasNext hasNext} and
396      * {@link java.util.Iterator#next next} methods can therefore throw a
397      * {@link ServiceConfigurationError} if a provider class cannot be loaded,
398      * doesn't have the appropriate no-argument constructor, etc.
399      *
400      * <p> The iterator returned by this method does not support removal.
401      * Invoking its {@link java.util.Iterator#remove() remove} method will
402      * cause an {@link UnsupportedOperationException} to be thrown.
403      *
404      * @return An iterator that lazily loads providers for this loader's
405      *         service
406      */
407     public Iterator<S> iterator() {
408         return new Iterator<S>() {
409             Iterator<Map.Entry<String,S>> knownProviders
410                 = providers.entrySet().iterator();
411 
412             public boolean hasNext() {
413                 if (knownProviders.hasNext())
414                     return true;
415                 return lookupIterator.hasNext();
416             }
417 
418             public S next() {
419                 if (knownProviders.hasNext())
420                     return knownProviders.next().getValue();
421                 return lookupIterator.next();
422             }
423 
424             public void remove() {
425                 throw new UnsupportedOperationException();
426             }
427         };
428     }
429 
430     /**
431      * Creates a new service loader for the given service type and class
432      * loader.
433      *
434      * @param service The interface or abstract class representing the service
435      *
436      * @param loader The class loader to be used to load provider-configuration
437      *               files and provider classes, or <tt>null</tt> if the system
438      *               class loader (or, failing that, the bootstrap class
439      *               loader) is to be used
440      *
441      * @return A new service loader
442      */
443     public static <S> ServiceLoader<S> load(Class<S> service,
444                                             ClassLoader loader)
445     {
446         return new ServiceLoader<>(service, loader);
447     }
448 
449     /**
450      * Creates a new service loader for the given service type, using the
451      * current thread's {@linkplain java.lang.Thread#getContextClassLoader
452      * context class loader}.
453      *
454      * <p> An invocation of this convenience method of the form
455      *
456      * <blockquote><pre>
457      * ServiceLoader.load(<i>service</i>)</pre></blockquote>
458      *
459      * is equivalent to
460      *
461      * <blockquote><pre>
462      * ServiceLoader.load(<i>service</i>, Thread.currentThread().getContextClassLoader())</pre></blockquote>
463      *
464      * @param service The interface or abstract class representing the service
465      *
466      * @return A new service loader
467      */
468     public static <S> ServiceLoader<S> load(Class<S> service) {
469         ClassLoader cl = Thread.currentThread().getContextClassLoader();
470         return ServiceLoader.load(service, cl);
471     }
472 
473     /**
474      * Creates a new service loader for the given service type, using the
475      * extension class loader.
476      *
477      * <p> This convenience method simply locates the extension class loader,
478      * call it <tt><i>extClassLoader</i></tt>, and then returns
479      *
480      * <blockquote><pre>
481      * ServiceLoader.load(<i>service</i>, <i>extClassLoader</i>)</pre></blockquote>
482      *
483      * <p> If the extension class loader cannot be found then the system class
484      * loader is used; if there is no system class loader then the bootstrap
485      * class loader is used.
486      *
487      * <p> This method is intended for use when only installed providers are
488      * desired.  The resulting service will only find and load providers that
489      * have been installed into the current Java virtual machine; providers on
490      * the application's class path will be ignored.
491      *
492      * @param service The interface or abstract class representing the service
493      *
494      * @return A new service loader
495      */
496     public static <S> ServiceLoader<S> loadInstalled(Class<S> service) {
497         ClassLoader cl = ClassLoader.getSystemClassLoader();
498         ClassLoader prev = null;
499         while (cl != null) {
500             prev = cl;
501             cl = cl.getParent();
502         }
503         return ServiceLoader.load(service, prev);
504     }
505 
506     /**
507      * Returns a string describing this service.
508      *
509      * @return  A descriptive string
510      */
511     public String toString() {
512         return "java.util.ServiceLoader[" + service.getName() + "]";
513     }
514 
515     /**
516      * Returns a stream of the available providers of this loader's service.
517      *
518      * <p> The stream returned by this method first yields all of the elements
519      * of the provider cache, in instantiation order.  It then lazily loads and
520      * instantiates any remaining providers, adding each one to the cache in
521      * turn.
522      *
523      * <p> To achieve laziness the actual work of parsing the available
524      * provider-configuration files and instantiating providers must be done by
525      * the stream itself.  Its {@link java.util.stream.Stream#iterator
526      * iterator} and {@link java.util.stream.Stream#spliterator spliterator}
527      * methods can therefore throw a {@link ServiceConfigurationError} if a
528      * provider class cannot be loaded, doesn't have the appropriate
529      * no-argument constructor, etc.
530      *
531      * <p> The stream returned by this method does not support the {@link
532      * java.util.stream.Stream#remove() remove} method.
533      *
534      * @return An ordered stream that lazily loads providers for this
535      *         loader's service
536      *
537      * @since 1.8
538      */
539     public Stream<S> stream() {
540         return StreamSupport.stream(Spliterators.spliteratorUnknownSize(
541                 iterator(), Spliterator.ORDERED), false);
542     }
543 
544 }
```

```
0x0000: 0x0000 0x0000 0x0000
```

```
[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40]
```

```
  1 # Copyright 2016 The Chromium Authors. All rights reserved.
  2 # Use of this source code is governed by a BSD-style license that can be
  3 # found in the LICENSE file.
  4
  5 import("//build/config/android/rules.gni")
  6 import("//build/config/compiler/compiler.gni")
  7 import("//build/config/sanitizers/sanitizers.gni")
  8 import("//build/config/ui.gni")
  9 import("//build_overrides/build.gni")
 10 import("//chrome/android/features/dev_ui/dev_ui_java_resources.gni")
 11 import("//chrome/android/features/dev_ui/dev_ui_resources.gni")
 12 import("//chrome/android/features/dev_ui/dev_ui_test_java_resources.gni")
 13 import("//chrome/android/features/dev_ui/dev_ui_test_resources.gni")
 14 import("//chrome/android/features/dynamic_feature_modules.gni")
 15 import("//chrome/android/features/tab_ui/tab_ui_java_resources.gni")
 16 import("//chrome/android/features/tab_ui/tab_ui_resources.gni")
 17 import("//chrome/android/features/tab_ui/tab_ui_test_java_resources.gni")
 18 import("//chrome/android/features/tab_ui/tab_ui_test_resources.gni")
 19 import("//chrome/android/features/vr/vr_java_resources.gni")
 20 import("//chrome/android/features/vr/vr_resources.gni")
 21 import("//chrome/android/features/vr/vr_test_java_resources.gni")
 22 import("//chrome/android/features/vr/vr_test_resources.gni")
 23 import("//chrome/browser/android/lint/suppressions.gni")
 24 import("//chrome/browser/buildflags.gni")
 25 import("//chrome/common/features.gni")
 26 import("//components/autofill_assistant/android/autofill_assistant_java_resources.gni")
 27 import("//components/autofill_assistant/android/autofill_assistant_resources.gni")
 28 import("//components/autofill_assistant/android/autofill_assistant_test_java_resources.gni")
 29 import("//components/autofill_assistant/android/autofill_assistant_test_resources.gni")
 30 import("//components/browser_ui/accessibility/android/java_resources.gni")
 31 import("//components/browser_ui/accessibility/android/resources.gni")
 32 import("//components/browser_ui/accessibility/android/test_java_resources.gni")
 33 import("//components/browser_ui/accessibility/android/test_resources.gni")
 34 import("//components/browser_ui/bottomsheet/android/java_resources.gni")
 35 import("//components/browser_ui/bottomsheet/android/resources.gni")
 36 import("//components/browser_ui/bottomsheet/android/test_java_resources.gni")
 37 import("//components/browser_ui/bottomsheet/android/test_resources.gni")
 38 import("//components/browser_ui/client_certificate_dialog/android/java_resources.gni")
 39 import("//components/browser_ui/client_certificate_dialog/android/resources.gni")
 40 import("//components/browser_ui/client_certificate_dialog/android/test_java_resources.gni")
 41 import("//components/browser_ui/client_certificate_dialog/android/test_resources.gni")
 42 import("//components/browser_ui/media/android/java_resources.gni")
 43 import("//components/browser_ui/media/android/resources.gni")
 44 import("//components/browser_ui/media/android/test_java_resources.gni")
 45 import("//components/browser_ui/media/android/test_resources.gni")
 46 import("//components/browser_ui/site_settings/android/java_resources.gni")
 47 import("//components/browser_ui/site_settings/android/resources.gni")
 48 import("//components/browser_ui/site_settings/android/test_java_resources.gni")
 49 import("//components/browser_ui/site_settings/android/test_resources.gni")
 50 import("//components/browser_ui/styles/android/java_resources.gni")
 51 import("//components/browser_ui/styles/android/resources.gni")
 52 import("//components/browser_ui/styles/android/test_java_resources.gni")
 53 import("//components/browser_ui/styles/android/test_resources.gni")
 54 import("//components/browser_ui/widget/android/java_resources.gni")
 55 import("//components/browser_ui/widget/android/resources.gni")
 56 import("//components/browser_ui/widget/android/test_java_resources.gni")
 57 import("//components/browser_ui/widget/android/test_resources.gni")
 58 import("//components/cast_framework/android/cast_framework_java_resources.gni")
 59 import("//components/cast_framework/android/cast_framework_resources.gni")
 60 import("//components/cast_framework/android/cast_framework_test_java_resources.gni")
 61 import("//components/cast_framework/android/cast_framework_test_resources.gni")
 62 import("//components/content_settings/android/java_resources.gni")
 63 import("//components/content_settings/android/resources.gni")
 64 import("//components/content_settings/android/test_java_resources.gni")
 65 import("//components/content_settings/android/test_resources.gni")
 66 import("//components/crash/android/java_resources.gni")
 67 import("//components/crash/android/resources.gni")
 68 import("//components/crash/android/test_java_resources.gni")
 69 import("//components/crash/android/test_resources.gni")
 70 import("//components/download/internal/android/java_resources.gni")
 71 import("//components/download/internal/android/resources.gni")
 72 import("//components/download/internal/android/test_java_resources.gni")
 73 import("//components/download/internal/android/test_resources.gni")
 74 import("//components/embedder_support/android/java_resources.gni")
 75 import("//components/embedder_support/android/resources.gni")
 76 import("//components/embedder_support/android/test_java_resources.gni")
 77 import("//components/embedder_support/android/test_resources.gni")
 78 import("//components/external_video_surface/android/java_resources.gni")
 79 import("//components/external_video_surface/android/resources.gni")
 80 import("//components/external_video_surface/android/test_java_resources.gni")
 81 import("//components/external_video_surface/android/test_resources.gni")
 82 import("//components/feature_engagement/public/android/java_resources.gni")
 83 import("//components/feature_engagement/public/android/resources.gni")
 84 import("//components/feature_engagement/public/android/test_java_resources.gni")
 85 import("//components/feature_engagement/public/android/test_resources.gni")
 86 import("//components/feedback/android/java_resources.gni")
 87 import("//components/feedback/android/resources.gni")
 88 import("//components/feedback/android/test_java_resources.gni")
 89 import("//components/feedback/android/test_resources.gni")
 90 import("//components/gcm_driver/android/java_resources.gni")
 91 import("//components/gcm_driver/android/resources.gni")
 92 import("//components/gcm_driver/android/test_java_resources.gni")
 93 import("//components/gcm_driver/android/test_resources.gni")
 94 import("//components/infobars/android/java_resources.gni")
 95 import("//components/infobars/android/resources.gni")
 96 import("//components/infobars/android/test_java_resources.gni")
 97 import("//components/infobars/android/test_resources.gni")
 98 import("//components/javascript_dialogs/android/java_resources.gni")
 99 import("//components/javascript_dialogs/android/resources.gni")
100 import("//components/javascript_dialogs/android/test_java_resources.gni")
101 import("//components/javascript_dialogs/android/test_resources.gni")
102 import("//components/location/android/java_resources.gni")
103 import("//components/location/android/resources.gni")
104 import("//components/location/android/test_java_resources.gni")
105 import("//components/location/android/test_resources.gni")
106 import("//components/messages/android/java_resources.gni")
107 import("//components/messages/android/resources.gni")
108 import("//components/messages/android/test_java_resources.gni")
109 import("//components/messages/android/test_resources.gni")
110 import("//components/minidump_uploader/android/java_resources.gni")
111 import("//components/minidump_uploader/android/resources.gni")
112 import("//components/minidump_uploader/android/test_java_resources.gni")
113 import("//components/minidump_uploader/android/test_resources.gni")
114 import("//components/module_installer/android/java_resources.gni")
115 import("//components/module_installer/android/resources.gni")
116 import("//components/module_installer/android/test_java_resources.gni")
117 import("//components/module_installer/android/test_resources.gni")
118 import("//components/navigation_interception/android/java_resources.gni")
119 import("//components/navigation_interception/android/resources.gni")
120 import("//components/navigation_interception/android/test_java_resources.gni")
121 import("//components/navigation_interception/android/test_resources.gni")
122 import("//components/offline_items_collection/core/android/java_resources.gni")
123 import("//components/offline_items_collection/core/android/resources.gni")
124 import("//components/offline_items_collection/core/android/test_java_resources.gni")
125 import("//components/offline_items_collection/core/android/test_resources.gni")
126 import("//components/omnibox/browser/android/java_resources.gni")
127 import("//components/omnibox/browser/android/resources.gni")
128 import("//components/omnibox/browser/android/test_java_resources.gni")
129 import("//components/omnibox/browser/android/test_resources.gni")
130 import("//components/payments/content/android/java_resources.gni")
131 import("//components/payments/content/android/resources.gni")
132 import("//components/payments/content/android/test_java_resources.gni")
133 import("//components/payments/content/android/test_resources.gni")
134 import("//components/permissions/android/java_resources.gni")
135 import("//components/permissions/android/resources.gni")
136 import("//components/permissions/android/test_java_resources.gni")
137 import("//components/permissions/android/test_resources.gni")
138 import("//components/policy/android/java_resources.gni")
139 import("//components/policy/android/resources.gni")
140 import("//components/policy/android/test_java_resources.gni")
141 import("//components/policy/android/test_resources.gni")
142 import("//components/prefs/android/java_resources.gni")
143 import("//components/prefs/android/resources.gni")
144 import("//components/prefs/android/test_java_resources.gni")
145 import("//components/prefs/android/test_resources.gni")
146 import("//components/safe_browsing/android/java_resources.gni")
147 import("//components/safe_browsing/android/resources.gni")
148 import("//components/safe_browsing/android/test_java_resources.gni")
149 import("//components/safe_browsing/android/test_resources.gni")
150 import("//components/search_engines/android/java_resources.gni")
151 import("//components/search_engines/android/resources.gni")
152 import("//components/search_engines/android/test_java_resources.gni")
153 import("//components/search_engines/android/test_resources.gni")
154 import("//components/security_interstitials/content/android/java_resources.gni")
155 import("//components/security_interstitials/content/android/resources.gni")
156 import("//components/security_interstitials/content/android/test_java_resources.gni")
157 import("//components/security_interstitials/content/android/test_resources.gni")
158 import("//components/signin/core/browser/android/java_resources.gni")
159 import("//components/signin/core/browser/android/resources.gni")
160 import("//components/signin/core/browser/android/test_java_resources.gni")
161 import("//components/signin/core/browser/android/test_resources.gni")
162 import("//components/sync/android/java_resources.gni")
163 import("//components/sync/android/resources.gni")
164 import("//components/sync/android/test_java_resources.gni")
165 import("//components/sync/android/test_resources.gni")
166 import("//components/translate/core/android/java_resources.gni")
167 import("//components/translate/core/android/resources.gni")
168 import("//components/translate/core/android/test_java_resources.gni")
169 import("//components/translate/core/android/test_resources.gni")
170 import("//components/ukm/android/java_resources.gni")
171 import("//components/ukm/android/resources.gni")
172 import("//components/ukm/android/test_java_resources.gni")
173 import("//components/ukm/android/test_resources.gni")
174 import("//components/variations/android/java_resources.gni")
175 import("//components/variations/android/resources.gni")
176 import("//components/variations/android/test_java_resources.gni")
177 import("//components/variations/android/test_resources.gni")
178 import("//components/version_ui/android/java_resources.gni")
179 import("//components/version_ui/android/resources.gni")
180 import("//components/version_ui/android/test_java_resources.gni")
181 import("//components/version_ui/android/test_resources.gni")
182 import("//components/web_contents_delegate_android/android/java_resources.gni")
183 import("//components/web_contents_delegate_android/android/resources.gni")
184 import("//components/web_contents_delegate_android/android/test_java_resources.gni")
185 import("//components/web_contents_delegate_android/android/test_resources.gni")
186 import("//components/web_restrictions/android/java_resources.gni")
187 import("//components/web_restrictions/android/resources.gni")
188 import("//components/web_restrictions/android/test_java_resources.gni")
189 import("//components/web_restrictions/android/test_resources.gni")
190 import("//content/public/android/java_resources.gni")
191 import("//content/public/android/resources.gni")
192 import("//content/public/android/test_java_resources.gni")
193 import("//content/public/android/test_resources.gni")
194 import("//device/vr/android/java_resources.gni")
195 import("//device/vr/android/resources.gni")
196 import("//device/vr/android/test_java_resources.gni")
197 import("//device/vr/android/test_resources.gni")
198 import("//media/base/android/java_resources.gni")
199 import("//media/base/android/resources.gni")
200 import("//media/base/android/test_java_resources.gni")
201 import("//media/base/android/test_resources.gni")
202 import("//media/capture/video/android/java_resources.gni")
203 import("//media/capture/video/android/resources.gni")
204 import("//media/capture/video/android/test_java_resources.gni")
205 import("//media/capture/video/android/test_resources.gni")
206 import("//net/android/java_resources.gni")
207 import("//net/android/resources.gni")
208 import("//net/android/test_java_resources.gni")
209 import("//net/android/test_resources.gni")
210 import("//third_party/android_deps/android_deps_tests.gni")
211 import("//third_party/android_deps/buildfile_generation.gni")
212 import("//third_party/android_deps/fetch_all_android_deps.gni")
213 import("//third_party/android_deps/local_modifications.gni")
214 import("//third_party/android_deps/update_deps.gni")
215 import("//third_party/android_deps/validate_licenses.gni")
216 import("//third_party/android_deps/validate_updated_deps.gni")
217 import("//third_party/android_deps/validate_updated_licenses.gni")
218 import("//third_party/android_deps/validate_updated_sha256_checksums.gni")
219 import("//third_party/android_deps/validate_updated_sha256_checksums_in_cipd.gni")
220 import("//third_party/android_deps/validate_updated_sha256_checksums_in_gn.gni")
221 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven.gni")
222 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_cipd.gni")
223 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_gn.gni")
224 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven.gni")
225 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_cipd.gni")
226 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_gn.gni")
227 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_maven.gni")
228 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_maven_in_cipd.gni")
229 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_maven_in_gn.gni")
230 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_maven_in_maven.gni")
231 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_maven_in_maven_in_cipd.gni")
232 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_maven_in_maven_in_gn.gni")
233 import("//third_party/android_deps/validate_updated_sha256_checksums_in_maven_in_maven_in_maven_in_maven_in_maven.gni")
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
  1 ; ModuleID = 'LLVMDialectModule'
  2 source_filename = "LLVMDialectModule"
  3 target datalayout = "e-m:e-p270:32:32-p271:32:32-p272:64:64-i64:64-f80:128-n8:16:32:64-S128"
  4 target triple = "x86_64-unknown-linux-gnu"
  5
  6 @global_smem = external addrspace(3) global [0 x i8], align 16
  7
  8 define void @_Z6kernelPfS_S_S_S
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
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```

```
1 #!/bin/sh
2 # Copyright (C) 2001-2004 Sistina Software, Inc. All rights reserved.
3 # Copyright (C) 2004-2009 Red Hat, Inc. All rights reserved.
4 #
5 # This copyrighted material is made available to anyone wishing to use,
6 # modify, copy, or redistribute it subject to the terms and conditions
7 # of the GNU General Public License v.2.
8 #
9 # You should have received a copy of the GNU General Public License
10 # along with this program; if not, write to the Free Software Foundation,
11 # Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
12 #
13 # chkconfig: 2345 24 76
14 # description: Activates/Deactivates cluster services
15 #
16 ### BEGIN INIT INFO
17 # Provides: cman
18 # Required-Start: $network $local_fs
19 # Required-Stop: $network $local_fs
20 # Default-Start: 2 3 4 5
21 # Default-Stop: 0 1 6
22 # Short-Description: Activates/Deactivates cluster services
23 # Description: Activates/Deactivates cluster services
24 ### END INIT INFO
25
26 . /etc/rc.d/init.d/functions
27
28 # Get config variables
29 if [ -f /etc/sysconfig/cman ]; then
30 . /etc/sysconfig/cman
31 fi
32
33 # Get network config
34 . /etc/sysconfig/network
35
36 # Check that networking is up.
37 [ "${NETWORKING}" = "no" ] && exit 0
38
39 # Check that we're a privileged user
40 [ `id -u` = 0 ] || exit 1
41
42 # Check config file exists
43 [ -f /etc/cluster/cluster.conf ] || exit 6
44
45 # Check cman is installed
46 [ -x /usr/sbin/cman_tool ] || exit 5
47
48 # Check fence is installed
49 [ -x /sbin/fenced ] || exit 5
50
51 # Check dlm is installed
52 [ -x /sbin/dlm_controld ] || exit 5
53
54 # Check gfs_controld is installed
55 [ -x /sbin/gfs_controld ] || exit 5
56
57 # Check if we're using GFS
58 if [ -x /sbin/mount.gfs ]; then
59 GFS=yes
60 fi
61
62 # Check if we're using GFS2
63 if [ -x /sbin/mount.gfs2 ]; then
64 GFS2=yes
65 fi
66
67 # Check if we're using OCFS2
68 if [ -x /sbin/mount.ocfs2 ]; then
69 OCFS2=yes
70 fi
71
72 # Check if we're using CLVM
73 if [ -x /usr/sbin/clvmd ]; then
74 CLVM=yes
75 fi
76
77 # Check if we're using GNBD
78 if [ -x /sbin/gnbd_import ]; then
79 GNBD=yes
80 fi
81
82 # Check if we're using rgmanager
83 if [ -x /usr/sbin/rgmanager ]; then
84 RGMGR=yes
85 fi
86
87 # Check if we're using qdiskd
88 if [ -x /sbin/qdiskd ]; then
89 QDISKD=yes
90 fi
91
92 # Check if we're using corosync
93 if [ -x /usr/sbin/corosync ]; then
94 COROSYNC=yes
95 fi
96
97 # Check if we're using openais
98 if [ -x /usr/sbin/aisexec ]; then
99 OPENAIS=yes
100 fi
101
102 # Check if we're using sctp
103 if [ -x /sbin/sctp_test ]; then
104 SCTP=yes
105 fi
106
107 # Check if we're using xvm
108 if [ -x /sbin/fence_xvmd ]; then
109 XVM=yes
110 fi
111
112 # Check if we're using gfs_controld
113 if [ -x /sbin/gfs_controld ]; then
114 GFS_CONTROLD=yes
115 fi
116
117 # Check if we're using dlm_controld
118 if [ -x /sbin/dlm_controld ]; then
119 DLM_CONTROLD=yes
120 fi
121
122 # Check if we're using fence_tool
123 if [ -x /sbin/fence_tool ]; then
124 FENCE_TOOL=yes
125 fi
126
127 # Check if we're using cpglockd
128 if [ -x /usr/sbin/cpglockd ]; then
129 CPGLOCKD=yes
130 fi
131
132 # Check if we're using groupd
133 if [ -x /sbin/groupd ]; then
134 GROUPD=yes
135 fi
136
137 # Check if we're using fenced
138 if [ -x /sbin/fenced ]; then
139 FENCED=yes
140 fi
141
142 # Check if we're using dlm_tool
143 if [ -x /sbin/dlm_tool ]; then
144 DLM_TOOL=yes
145 fi
146
147 # Check if we're using gfs_tool
148 if [ -x /sbin/gfs_tool ]; then
149 GFS_TOOL=yes
150 fi
151
152 # Check if we're using gfs2_tool
153 if [ -x /sbin/gfs2_tool ]; then
154 GFS2_TOOL=yes
155 fi
156
157 # Check if we're using ocfs2_tool
158 if [ -x /sbin/ocfs2_tool ]; then
159 OCFS2_TOOL=yes
160 fi
161
162 # Check if we're using clvmd
163 if [ -x /usr/sbin/clvmd ]; then
164 CLVMD=yes
165 fi
166
167 # Check if we're using gnbd_import
168 if [ -x /sbin/gnbd_import ]; then
169 GNBD_IMPORT=yes
170 fi
171
172 # Check if we're using gnbd_export
173 if [ -x /sbin/gnbd_export ]; then
174 GNBD_EXPORT=yes
175 fi
176
177 # Check if we're using rgmanager
178 if [ -x /usr/sbin/rgmanager ]; then
179 RGMANAGER=yes
180 fi
181
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836
837 # Check if we're using gnbd_export
838 if [ -x /sbin/gnbd_export ]; then
839 GNBD_EXPORT=yes
840 fi
841
842 # Check if we're using rgmanager
843 if [ -x /usr/sbin/rgmanager ]; then
844 RGMANAGER=yes
845 fi
846
847 # Check if we're using qdiskd
848 if [ -x /sbin/qdiskd ]; then
849 QDISKD=yes
850 fi
851
852 # Check if we're using corosync
853 if [ -x /usr/sbin/corosync ]; then
854 COROSYNC=yes
855 fi
856
857 # Check if we're using openais
858 if [ -x /usr/sbin/aisexec ]; then
859 OPENAIS=yes
860 fi
861
862 # Check if we're using sctp
863 if [ -x /sbin/sctp_test ]; then
864 SCTP=yes
865 fi
866
867 # Check if we're using xvm
868 if [ -x /sbin/fence_xvmd ]; then
869 XVM=yes
870 fi
871
872 # Check if we're using gfs_controld
873 if [ -x /sbin/gfs_controld ]; then
874 GFS_CONTROLD=yes
875 fi
876
877 # Check if we're using dlm_controld
878 if [ -x /sbin/dlm_controld ]; then
879 DLM_CONTROLD=yes
880 fi
881
882 # Check if we're using fence_tool
883 if [ -x /sbin/fence_tool ]; then
884 FENCE_TOOL=yes
885 fi
886
887 # Check if we're using cpglockd
888 if [ -x /usr/sbin/cpglockd ]; then
889 CPGLOCKD=yes
890 fi
891
892 # Check if we're using groupd
893 if [ -x /sbin/groupd ]; then
894 GROUPD=yes
895 fi
896
897 # Check if we're using fenced
898 if [ -x /sbin/fenced ]; then
899 FENCED=yes
900 fi
901
902 # Check if we're using dlm_tool
903 if [ -x /sbin/dlm_tool ]; then
904 DLM_TOOL=yes
905 fi
906
907 # Check if we're using gfs_tool
908 if [ -x /sbin/gfs_tool ]; then
909 GFS_TOOL=yes
910 fi
911
912 # Check if we're using gfs2_tool
913 if [ -x /sbin/gfs2_tool ]; then
914 GFS2_TOOL=yes
915 fi
916
917 # Check if we're using ocfs2_tool
918 if [ -x /sbin/ocfs2_tool ]; then
919 OCFS2_TOOL=yes
920 fi
921
922 # Check if we're using clvmd
923 if [ -x /usr/sbin/clvmd ]; then
924 CLVMD=yes
925 fi
926
927 # Check if we're using gnbd_import
928 if [ -x /sbin/gnbd_import ]; then
929 GNBD_IMPORT=yes
930 fi
931
932 # Check if we're using gnbd_export
933 if [ -x /sbin/gnbd_export ]; then
934 GNBD_EXPORT=yes
935 fi
936
937 # Check if we're using rgmanager
938 if [ -x /usr/sbin/rgmanager ]; then
939 RGMANAGER=yes
940 fi
941
942 # Check if we're using qdiskd
943 if [ -x /sbin/qdiskd ]; then
944 QDISKD=yes
945 fi
946
947 # Check if we're using corosync
948 if [ -x /usr/sbin/corosync ]; then
949 COROSYNC=yes
950 fi
951
952 # Check if we're using openais
953 if [ -x /usr/sbin/aisexec ]; then
954 OPENAIS=yes
955 fi
956
957 # Check if we're using sctp
958 if [ -x /sbin/sctp_test ]; then
959 SCTP=yes
960 fi
961
962 # Check if we're using xvm
963 if [ -x /sbin/fence_xvmd ]; then
964 XVM=yes
965 fi
966
967 # Check if we're using gfs_controld
968 if [ -x /sbin/gfs_controld ]; then
969 GFS_CONTROLD=yes
970 fi
971
972 # Check if we're using dlm_controld
973 if [ -x /sbin/dlm_controld ]; then
974 DLM_CONTROLD=yes
975 fi
976
977 # Check if we're using fence_tool
978 if [ -x /sbin/fence_tool ]; then
979 FENCE_TOOL=yes
980 fi
981
982 # Check if we're using cpglockd
983 if [ -x /usr/sbin/cpglockd ]; then
984 CPGLOCKD=yes
985 fi
986
987 # Check if we're using groupd
988 if [ -x /sbin/groupd ]; then
989 GROUPD=yes
990 fi
991
992 # Check if we're using fenced
993 if [ -x /sbin/fenced ]; then
994 FENCED=yes
995 fi
996
997 # Check if we're using dlm_tool
998 if [ -x /sbin/dlm_tool ]; then
999 DLM_TOOL=yes
1000 fi
1001
1002 # Check if we're using gfs_tool
1003 if [ -x /sbin/gfs_tool ]; then
1004 GFS_TOOL=yes
1005 fi
1006
1007 # Check if we're using gfs2_tool
1008 if [ -x /sbin/gfs2_tool ]; then
1009 GFS2_TOOL=yes
1010 fi
1011
1012 # Check if we're using ocfs2_tool
1013 if [ -x /sbin/ocfs2_tool ]; then
1014 OCFS2_TOOL=yes
1015 fi
1016
1017 # Check if we're using clvmd
1018 if [ -x /usr/sbin/clvmd ]; then
1019 CLVMD=yes
1020 fi
1021
1022 # Check if we're using gnbd_import
1023 if [ -x /sbin/gnbd_import ]; then
1024 GNBD_IMPORT=yes
1025 fi
1026
1027 # Check if we're using gnbd_export
1028 if [ -x /sbin/gnbd_export ]; then
1029 GNBD_EXPORT=yes
1030 fi
1031
1032 # Check if we're using rgmanager
1033 if [ -x /usr/sbin/rgmanager ]; then
1034 RGMANAGER=yes
1035 fi
1036
1037 # Check if we're using qdiskd
1038 if [ -x /sbin/qdiskd ]; then
1039 QDISKD=yes
1040 fi
1041
1042 # Check if we're using corosync
1043 if [ -x /usr/sbin/corosync ]; then
1044 COROSYNC=yes
1045 fi
1046
1047 # Check if we're using openais
1048 if [ -x /usr/sbin/aisexec ]; then
1049 OPENAIS=yes
1050 fi
1051
1052 # Check if we're using sctp
1053 if [ -x /sbin/sctp_test ]; then
1054 SCTP=yes
1055 fi
1056
1057 # Check if we're using xvm
1058 if [ -x /sbin/fence_xvmd ]; then
1059 XVM=yes
1060 fi
1061
1062 # Check if we're using gfs_controld
1063 if [ -x /sbin/gfs_controld ]; then
1064 GFS_CONTROLD=yes
1065 fi
1066
1067 # Check if we're using dlm_controld
1068 if [ -x /sbin/dlm_controld ]; then
1069 DLM_CONTROLD=yes
1070 fi
1071
1072 # Check if we're using fence_tool
1073 if [ -x /sbin/fence_tool ]; then
1074 FENCE_TOOL=yes
1075 fi
1076
1077 # Check if we're using cpglockd
1078 if [ -x /usr/sbin/cpglockd ]; then
1079 CPGLOCKD=yes
1080 fi
1081
1082 # Check if we're using groupd
1083 if [ -x /sbin/groupd ]; then
1084 GROUPD=yes
1085 fi
1086
1087 # Check if we're using fenced
1088 if [ -x /sbin/fenced ]; then
1089 FENCED=yes
1090 fi
1091
1092 # Check if we're using dlm_tool
1093 if [ -x /sbin/dlm_tool ]; then
1094 DLM_TOOL=yes
1095 fi
1096
1097 # Check if we're using gfs_tool
1098 if [ -x /sbin/gfs_tool ]; then
1099 GFS_TOOL=yes
1100 fi
1101
1102 # Check if we're using gfs2_tool
1103 if [ -x /sbin/gfs2_tool ]; then
1104 GFS2_TOOL=yes
1105 fi
1106
1107 # Check if we're using ocfs2_tool
1108 if [ -x /sbin/ocfs2_tool ]; then
1109 OCFS2_TOOL=yes
1110 fi
1111
1112 # Check if we're using clvmd
1113 if [ -x /usr/sbin/clvmd ]; then
1114 CLVMD=yes
1115 fi
1116
1117 # Check if we're using gnbd_import
1118 if [ -x /sbin/gnbd_import ]; then
1119 GNBD_IMPORT=yes
1120 fi
1121
1122 # Check if we're using gnbd_export
1123 if [ -x /sbin/gnbd_export ]; then
1124 GNBD_EXPORT=yes
1125 fi
1126
1127 # Check if we're using rgmanager
1128 if [ -x /usr/sbin/rgmanager ]; then
1129 RGMANAGER=yes
1130 fi
1131
1132 # Check if we're using qdiskd
1133 if [ -x /sbin/qdiskd ]; then
1134 QDISKD=yes
1135 fi
1136
1137 # Check if we're using corosync
1138 if [ -x /usr/sbin/corosync ]; then
1139 COROSYNC=yes
1140 fi
1141
1142 # Check if we're using openais
1143 if [ -x /usr/sbin/aisexec ]; then
1144 OPENAIS=yes
1145 fi
1146
1147 # Check if we're using sctp
1148 if [ -x /sbin/sctp_test ]; then
1149 SCTP=yes
1150 fi
1151
1152 # Check if we're using xvm
1153 if [ -x /sbin/fence_xvmd ]; then
1154 XVM=yes
1155 fi
1156
1157 # Check if we're using gfs_controld
1158 if [ -x /sbin/gfs_controld ]; then
1159 GFS_CONTROLD=yes
1160 fi
1161
1162 # Check if we're using dlm_controld
1163 if [ -x /sbin/dlm_controld ]; then
1164 DLM_CONTROLD=yes
1165 fi
1166
1167 # Check if we're using fence_tool
1168 if [ -x /sbin/fence_tool ]; then
1169 FENCE_TOOL=yes
1170 fi
1171
1172 # Check if we're using cpglockd
1173 if [ -x /usr/sbin/cpglockd ]; then
1174 CPGLOCKD=yes
1175 fi
1176
1177 # Check if we're using groupd
1178 if [ -x /sbin/groupd ]; then
1179 GROUPD=yes
1180 fi
1181
1182 # Check if we're using fenced
1183 if [ -x /sbin/fenced ]; then
1184 FENCED=yes
1185 fi
1186
1187 # Check if we're using dlm_tool
1188 if [ -x /sbin/dlm_tool ]; then
1189 DLM_TOOL=yes
1190 fi
1191
1192 # Check if we're using gfs_tool
1193 if [ -x /sbin/gfs_tool ]; then
1194 GFS_TOOL=yes
1195 fi
1196
1197 # Check if we're using gfs2_tool
1198 if [ -x /sbin/gfs2_tool ]; then
1199 GFS2_TOOL=yes
1200 fi
1201
1202 # Check if we're using ocfs2_tool
1203 if [ -x /sbin/ocfs2_tool ]; then
1204 OCFS2_TOOL=yes
1205 fi
1206
1207 # Check if we're using clvmd
1208 if [ -x /usr/sbin/clvmd ]; then
1209 CLVMD=yes
1210 fi
1211
1212 # Check if we're using gnbd_import
1213 if [ -x /sbin/gnbd_import ]; then
1214 GNBD_IMPORT=yes
1215 fi
1216
1217 # Check if we're using gnbd_export
1218 if [ -x /sbin/gnbd_export ]; then
1219 GNBD_EXPORT=yes
1220 fi
1221
1222 # Check if we're using rgmanager
1223 if [ -x /usr/sbin/rgmanager ]; then
1224 RGMANAGER=yes
1225 fi
1226
1227 # Check if we're using qdiskd
1228 if [ -x /sbin/qdiskd ]; then
1229 QDISKD=yes
1230 fi
1231
1232 # Check if we're using corosync
1233 if [ -x /usr/sbin/corosync ]; then
1234 COROSYNC=yes
1235 fi
1236
1237 # Check if we're using openais
1238 if [ -x /usr/sbin/aisexec ]; then
1239 OPENAIS=yes
1240 fi
1241
1242 # Check if we're using sctp
1243 if [ -x /sbin/sctp_test ]; then
1244 SCTP=yes
1245 fi
1246
1247 # Check if we're using xvm
1248 if [ -x /sbin/fence_xvmd ]; then
1249 XVM=yes
1250 fi
1251
1252 # Check if we're using gfs_controld
1253 if [ -x /sbin/gfs_controld ]; then
1254 GFS_CONTROLD=yes
1255 fi
1256
1257 # Check if we're using dlm_controld
1258 if [ -x /sbin/dlm_controld ]; then
1259 DLM_CONTROLD=yes
1260 fi
1261
1262 # Check if we're using fence_tool
1263 if [ -x /sbin/fence_tool ]; then
1264 FENCE_TOOL=yes
1265 fi
1266
1267 # Check if we're using cpglockd
1268 if [ -x /usr/sbin/cpglockd ]; then
1269 CPGLOCKD=yes
1270 fi
1271
1272 # Check if we're using groupd
1273 if [ -x /sbin/groupd ]; then
1274 GROUPD=yes
1275 fi
1276
1277 # Check if we're using fenced
1278 if [ -x /sbin/fenced ]; then
1279 FENCED=yes
1280 fi
1281
1282 # Check if we're using dlm_tool
1283 if [ -x /sbin/dlm_tool ]; then
1284 DLM_TOOL=yes
1285 fi
1286
1287 # Check if we're using gfs_tool
1288 if [ -x /sbin/gfs_tool ]; then
1289 GFS_TOOL=yes
1290 fi
1291
1292 # Check if we're using gfs2_tool
1293 if [ -x /sbin/gfs2_tool ]; then
1294 GFS2_TOOL=yes
1295 fi
1296
1297 # Check if we're using ocfs2_tool
1298 if [ -x /sbin/ocfs2_tool ]; then
1299 OCFS2_TOOL=yes
1300 fi
1301
1302 # Check if we're using clvmd
1303 if [ -x /usr/sbin/clvmd ]; then
1304 CLVMD=yes
1305 fi
1306
1307 # Check if we're using gnbd_import
1308 if [ -x /sbin/gnbd_import ]; then
1309 GNBD_IMPORT=yes
1310 fi
1311
1312 # Check if we're using gnbd_export
1313 if [ -x /sbin/gnbd_export ]; then
1314 GNBD_EXPORT=yes
1315 fi
1316
1317 # Check if we're using rgmanager
1318 if [ -x /usr/sbin/rgmanager ]; then
1319 RGMANAGER=yes
1320 fi
1321
1322 # Check if we're using qdiskd
1323 if [ -x /sbin/qdiskd ]; then
1324 QDISKD=yes
1325 fi
1326
1327 # Check if we're using corosync
1328 if [ -x /usr/sbin/corosync ]; then
1329 COROSYNC=yes
1330 fi
1331
1332 # Check if we're using openais
1333 if [ -x /usr/sbin/aisexec ]; then
1334 OPENAIS=yes
1335 fi
```

```
000 0 0 0
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
[2025-10-10 00:00:00.000] [INFO] [main] Application started successfully
[2025-10-10 00:00:00.001] [INFO] [main] Application started successfully
[2025-10-10 00:00:00.002] [INFO] [main] Application started successfully
[2025-10-10 00:00:00.003] [INFO] [main] Application started successfully
[2025-10-10 00:00:00.004] [INFO] [main] Application started successfully
[2025-10-10
```

```
[2025-08-21 21:21:21.000] [INFO] [main] Application started successfully
[2025-08-21 21:21:21.001] [INFO] [main] Application started successfully
[2025-08-21 21:21:21.002] [INFO] [main] Application started successfully
[2025-08-21 21:21:21.003] [INFO] [main] Application started successfully
[2025-08-21 21:21:21.004] [INFO] [main] Application started successfully
[2025-08-21
```

```
Mon Mar 16 11:11:11 2026 Mon Mar 16 11:11:11 2026 Mon Mar 16 11:11:11 2026 
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

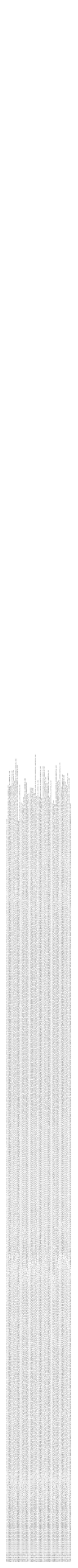
```
[1] 1 1 1
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
000: 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F 20 21 22 23 24 25 26 27 28 29 2A 2B 2C 2D 2E 2F 30 31 32 33 34 35 36 37 38 39 3A 3B 3C 3D 3E 3F 40 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 51 52 53 54 55 56 57 58 59 5A 5B 5C 5D 5E 5F 60 61 62 63 64 65 66 67 68 69 6A 6B 6C 6D 6E 6F 70 71 72 73 74 75 76 77 78 79 7A 7B 7C 7D 7E 7F 80 81 82 83 84 85 86 87 88 89 8A 8B 8C 8D 8E 8F 90 91 92 93 94 95 96 97 98 99 9A 9B 9C 9D 9E 9F A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 AA AB AC AD AE AF B0 B1 B2 B3 B4 B5 B6 B7 B8 B9 BA BB BC BD BE BF C0 C1 C2 C3 C4 C5 C6 C7 C8 C9 CA CB CC CD CE CF D0 D1 D2 D3 D4 D5 D6 D7 D8 D9 DA DB DC DD DE DF E0 E1 E2 E3 E4 E5 E6 E7 E8 E9 EA EB EC ED EE EF F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB FC FD FE FF
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```



```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
0000: 00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F 20 21 22 23 24 25 26 27 28 29 2A 2B 2C 2D 2E 2F 30 31 32 33 34 35 36 37 38 39 3A 3B 3C 3D 3E 3F 40 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 51 52 53 54 55 56 57 58 59 5A 5B 5C 5D 5E 5F 60 61 62 63 64 65 66 67 68 69 6A 6B 6C 6D 6E 6F 70 71 72 73 74 75 76 77 78 79 7A 7B 7C 7D 7E 7F 80 81 82 83 84 85 86 87 88 89 8A 8B 8C 8D 8E 8F 90 91 92 93 94 95 96 97 98 99 9A 9B 9C 9D 9E 9F A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 AA AB AC AD AE AF B0 B1 B2 B3 B4 B5 B6 B7 B8 B9 BA BB BC BD BE BF C0 C1 C2 C3 C4 C5 C6 C7 C8 C9 CA CB CC CD CE CF D0 D1 D2 D3 D4 D5 D6 D7 D8 D9 DA DB DC DD DE DF E0 E1 E2 E3 E4 E5 E6 E7 E8 E9 EA EB EC ED EE EF F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB FC FD FE FF
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

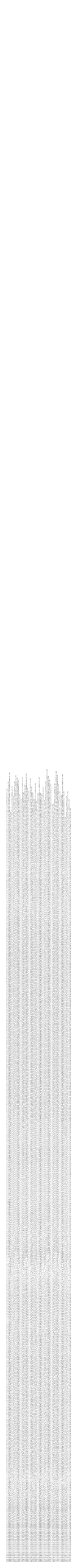
```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 CREATE TABLE `ACCESS_LOG` (
2 `ACCESS_LOG_ID` int(11) NOT NULL AUTO_INCREMENT,
3 `ACCESS_TIME` datetime NOT NULL,
4 `USER_ID` int(11) NOT NULL,
5 `ACCESS_TYPE` varchar(20) NOT NULL,
6 `RESOURCE_ID` int(11) DEFAULT NULL,
7 `IP_ADDRESS` varchar(45) DEFAULT NULL,
8 `USER_AGENT` varchar(255) DEFAULT NULL,
9 `SESSION_ID` varchar(100) DEFAULT NULL,
10 `ACCESS_RESULT` varchar(20) NOT NULL,
11 `FAILURE_REASON` varchar(100) DEFAULT NULL,
12 `ACCESS_DURATION` int(11) DEFAULT NULL,
13 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
14 `ACCESS_METHOD` varchar(20) NOT NULL,
15 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
16 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
17 PRIMARY KEY (`ACCESS_LOG_ID`),
18 KEY `IDX_ACCESS_LOG_USER_ID` (`USER_ID`),
19 KEY `IDX_ACCESS_LOG_ACCESS_TIME` (`ACCESS_TIME`),
20 KEY `IDX_ACCESS_LOG_ACCESS_TYPE` (`ACCESS_TYPE`),
21 KEY `IDX_ACCESS_LOG_RESOURCE_ID` (`RESOURCE_ID`),
22 KEY `IDX_ACCESS_LOG_IP_ADDRESS` (`IP_ADDRESS`),
23 KEY `IDX_ACCESS_LOG_SESSION_ID` (`SESSION_ID`),
24 KEY `IDX_ACCESS_LOG_ACCESS_RESULT` (`ACCESS_RESULT`),
25 KEY `IDX_ACCESS_LOG_ACCESS_METHOD` (`ACCESS_METHOD`),
26 KEY `IDX_ACCESS_LOG_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
27 KEY `IDX_ACCESS_LOG_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
28 CONSTRAINT `FK_ACCESS_LOG_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
29 CONSTRAINT `FK_ACCESS_LOG_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
30 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
31
32 CREATE TABLE `ACCESS_LOG_ARCHIVE` (
33 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
34 `ACCESS_TIME` datetime NOT NULL,
35 `USER_ID` int(11) NOT NULL,
36 `ACCESS_TYPE` varchar(20) NOT NULL,
37 `RESOURCE_ID` int(11) DEFAULT NULL,
38 `IP_ADDRESS` varchar(45) DEFAULT NULL,
39 `USER_AGENT` varchar(255) DEFAULT NULL,
40 `SESSION_ID` varchar(100) DEFAULT NULL,
41 `ACCESS_RESULT` varchar(20) NOT NULL,
42 `FAILURE_REASON` varchar(100) DEFAULT NULL,
43 `ACCESS_DURATION` int(11) DEFAULT NULL,
44 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
45 `ACCESS_METHOD` varchar(20) NOT NULL,
46 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
47 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
48 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
49 KEY `IDX_ACCESS_LOG_ARCHIVE_USER_ID` (`USER_ID`),
50 KEY `IDX_ACCESS_LOG_ARCHIVE_ACCESS_TIME` (`ACCESS_TIME`),
51 KEY `IDX_ACCESS_LOG_ARCHIVE_ACCESS_TYPE` (`ACCESS_TYPE`),
52 KEY `IDX_ACCESS_LOG_ARCHIVE_RESOURCE_ID` (`RESOURCE_ID`),
53 KEY `IDX_ACCESS_LOG_ARCHIVE_IP_ADDRESS` (`IP_ADDRESS`),
54 KEY `IDX_ACCESS_LOG_ARCHIVE_SESSION_ID` (`SESSION_ID`),
55 KEY `IDX_ACCESS_LOG_ARCHIVE_ACCESS_RESULT` (`ACCESS_RESULT`),
56 KEY `IDX_ACCESS_LOG_ARCHIVE_ACCESS_METHOD` (`ACCESS_METHOD`),
57 KEY `IDX_ACCESS_LOG_ARCHIVE_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
58 KEY `IDX_ACCESS_LOG_ARCHIVE_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
59 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
60 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
61 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
62
63 CREATE TABLE `ACCESS_LOG_ARCHIVE_2023` (
64 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
65 `ACCESS_TIME` datetime NOT NULL,
66 `USER_ID` int(11) NOT NULL,
67 `ACCESS_TYPE` varchar(20) NOT NULL,
68 `RESOURCE_ID` int(11) DEFAULT NULL,
69 `IP_ADDRESS` varchar(45) DEFAULT NULL,
70 `USER_AGENT` varchar(255) DEFAULT NULL,
71 `SESSION_ID` varchar(100) DEFAULT NULL,
72 `ACCESS_RESULT` varchar(20) NOT NULL,
73 `FAILURE_REASON` varchar(100) DEFAULT NULL,
74 `ACCESS_DURATION` int(11) DEFAULT NULL,
75 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
76 `ACCESS_METHOD` varchar(20) NOT NULL,
77 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
78 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
79 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
80 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_USER_ID` (`USER_ID`),
81 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_ACCESS_TIME` (`ACCESS_TIME`),
82 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_ACCESS_TYPE` (`ACCESS_TYPE`),
83 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_RESOURCE_ID` (`RESOURCE_ID`),
84 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_IP_ADDRESS` (`IP_ADDRESS`),
85 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_SESSION_ID` (`SESSION_ID`),
86 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_ACCESS_RESULT` (`ACCESS_RESULT`),
87 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_ACCESS_METHOD` (`ACCESS_METHOD`),
88 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
89 KEY `IDX_ACCESS_LOG_ARCHIVE_2023_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
90 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2023_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
91 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2023_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
92 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
93
94 CREATE TABLE `ACCESS_LOG_ARCHIVE_2024` (
95 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
96 `ACCESS_TIME` datetime NOT NULL,
97 `USER_ID` int(11) NOT NULL,
98 `ACCESS_TYPE` varchar(20) NOT NULL,
99 `RESOURCE_ID` int(11) DEFAULT NULL,
100 `IP_ADDRESS` varchar(45) DEFAULT NULL,
101 `USER_AGENT` varchar(255) DEFAULT NULL,
102 `SESSION_ID` varchar(100) DEFAULT NULL,
103 `ACCESS_RESULT` varchar(20) NOT NULL,
104 `FAILURE_REASON` varchar(100) DEFAULT NULL,
105 `ACCESS_DURATION` int(11) DEFAULT NULL,
106 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
107 `ACCESS_METHOD` varchar(20) NOT NULL,
108 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
109 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
110 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
111 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_USER_ID` (`USER_ID`),
112 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_ACCESS_TIME` (`ACCESS_TIME`),
113 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_ACCESS_TYPE` (`ACCESS_TYPE`),
114 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_RESOURCE_ID` (`RESOURCE_ID`),
115 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_IP_ADDRESS` (`IP_ADDRESS`),
116 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_SESSION_ID` (`SESSION_ID`),
117 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_ACCESS_RESULT` (`ACCESS_RESULT`),
118 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_ACCESS_METHOD` (`ACCESS_METHOD`),
119 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
120 KEY `IDX_ACCESS_LOG_ARCHIVE_2024_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
121 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2024_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
122 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2024_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
123 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
124
125 CREATE TABLE `ACCESS_LOG_ARCHIVE_2025` (
126 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
127 `ACCESS_TIME` datetime NOT NULL,
128 `USER_ID` int(11) NOT NULL,
129 `ACCESS_TYPE` varchar(20) NOT NULL,
130 `RESOURCE_ID` int(11) DEFAULT NULL,
131 `IP_ADDRESS` varchar(45) DEFAULT NULL,
132 `USER_AGENT` varchar(255) DEFAULT NULL,
133 `SESSION_ID` varchar(100) DEFAULT NULL,
134 `ACCESS_RESULT` varchar(20) NOT NULL,
135 `FAILURE_REASON` varchar(100) DEFAULT NULL,
136 `ACCESS_DURATION` int(11) DEFAULT NULL,
137 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
138 `ACCESS_METHOD` varchar(20) NOT NULL,
139 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
140 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
141 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
142 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_USER_ID` (`USER_ID`),
143 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_ACCESS_TIME` (`ACCESS_TIME`),
144 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_ACCESS_TYPE` (`ACCESS_TYPE`),
145 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_RESOURCE_ID` (`RESOURCE_ID`),
146 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_IP_ADDRESS` (`IP_ADDRESS`),
147 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_SESSION_ID` (`SESSION_ID`),
148 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_ACCESS_RESULT` (`ACCESS_RESULT`),
149 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_ACCESS_METHOD` (`ACCESS_METHOD`),
150 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
151 KEY `IDX_ACCESS_LOG_ARCHIVE_2025_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
152 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2025_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
153 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2025_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
154 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
155
156 CREATE TABLE `ACCESS_LOG_ARCHIVE_2026` (
157 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
158 `ACCESS_TIME` datetime NOT NULL,
159 `USER_ID` int(11) NOT NULL,
160 `ACCESS_TYPE` varchar(20) NOT NULL,
161 `RESOURCE_ID` int(11) DEFAULT NULL,
162 `IP_ADDRESS` varchar(45) DEFAULT NULL,
163 `USER_AGENT` varchar(255) DEFAULT NULL,
164 `SESSION_ID` varchar(100) DEFAULT NULL,
165 `ACCESS_RESULT` varchar(20) NOT NULL,
166 `FAILURE_REASON` varchar(100) DEFAULT NULL,
167 `ACCESS_DURATION` int(11) DEFAULT NULL,
168 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
169 `ACCESS_METHOD` varchar(20) NOT NULL,
170 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
171 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
172 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
173 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_USER_ID` (`USER_ID`),
174 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_ACCESS_TIME` (`ACCESS_TIME`),
175 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_ACCESS_TYPE` (`ACCESS_TYPE`),
176 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_RESOURCE_ID` (`RESOURCE_ID`),
177 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_IP_ADDRESS` (`IP_ADDRESS`),
178 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_SESSION_ID` (`SESSION_ID`),
179 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_ACCESS_RESULT` (`ACCESS_RESULT`),
180 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_ACCESS_METHOD` (`ACCESS_METHOD`),
181 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
182 KEY `IDX_ACCESS_LOG_ARCHIVE_2026_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
183 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2026_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
184 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2026_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
185 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
186
187 CREATE TABLE `ACCESS_LOG_ARCHIVE_2027` (
188 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
189 `ACCESS_TIME` datetime NOT NULL,
190 `USER_ID` int(11) NOT NULL,
191 `ACCESS_TYPE` varchar(20) NOT NULL,
192 `RESOURCE_ID` int(11) DEFAULT NULL,
193 `IP_ADDRESS` varchar(45) DEFAULT NULL,
194 `USER_AGENT` varchar(255) DEFAULT NULL,
195 `SESSION_ID` varchar(100) DEFAULT NULL,
196 `ACCESS_RESULT` varchar(20) NOT NULL,
197 `FAILURE_REASON` varchar(100) DEFAULT NULL,
198 `ACCESS_DURATION` int(11) DEFAULT NULL,
199 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
200 `ACCESS_METHOD` varchar(20) NOT NULL,
201 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
202 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
203 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
204 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_USER_ID` (`USER_ID`),
205 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_ACCESS_TIME` (`ACCESS_TIME`),
206 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_ACCESS_TYPE` (`ACCESS_TYPE`),
207 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_RESOURCE_ID` (`RESOURCE_ID`),
208 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_IP_ADDRESS` (`IP_ADDRESS`),
209 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_SESSION_ID` (`SESSION_ID`),
210 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_ACCESS_RESULT` (`ACCESS_RESULT`),
211 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_ACCESS_METHOD` (`ACCESS_METHOD`),
212 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
213 KEY `IDX_ACCESS_LOG_ARCHIVE_2027_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
214 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2027_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
215 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2027_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
216 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
217
218 CREATE TABLE `ACCESS_LOG_ARCHIVE_2028` (
219 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
220 `ACCESS_TIME` datetime NOT NULL,
221 `USER_ID` int(11) NOT NULL,
222 `ACCESS_TYPE` varchar(20) NOT NULL,
223 `RESOURCE_ID` int(11) DEFAULT NULL,
224 `IP_ADDRESS` varchar(45) DEFAULT NULL,
225 `USER_AGENT` varchar(255) DEFAULT NULL,
226 `SESSION_ID` varchar(100) DEFAULT NULL,
227 `ACCESS_RESULT` varchar(20) NOT NULL,
228 `FAILURE_REASON` varchar(100) DEFAULT NULL,
229 `ACCESS_DURATION` int(11) DEFAULT NULL,
230 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
231 `ACCESS_METHOD` varchar(20) NOT NULL,
232 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
233 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
234 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
235 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_USER_ID` (`USER_ID`),
236 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_ACCESS_TIME` (`ACCESS_TIME`),
237 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_ACCESS_TYPE` (`ACCESS_TYPE`),
238 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_RESOURCE_ID` (`RESOURCE_ID`),
239 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_IP_ADDRESS` (`IP_ADDRESS`),
240 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_SESSION_ID` (`SESSION_ID`),
241 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_ACCESS_RESULT` (`ACCESS_RESULT`),
242 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_ACCESS_METHOD` (`ACCESS_METHOD`),
243 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
244 KEY `IDX_ACCESS_LOG_ARCHIVE_2028_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
245 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2028_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
246 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2028_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
247 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
248
249 CREATE TABLE `ACCESS_LOG_ARCHIVE_2029` (
250 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
251 `ACCESS_TIME` datetime NOT NULL,
252 `USER_ID` int(11) NOT NULL,
253 `ACCESS_TYPE` varchar(20) NOT NULL,
254 `RESOURCE_ID` int(11) DEFAULT NULL,
255 `IP_ADDRESS` varchar(45) DEFAULT NULL,
256 `USER_AGENT` varchar(255) DEFAULT NULL,
257 `SESSION_ID` varchar(100) DEFAULT NULL,
258 `ACCESS_RESULT` varchar(20) NOT NULL,
259 `FAILURE_REASON` varchar(100) DEFAULT NULL,
260 `ACCESS_DURATION` int(11) DEFAULT NULL,
261 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
262 `ACCESS_METHOD` varchar(20) NOT NULL,
263 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
264 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
265 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
266 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_USER_ID` (`USER_ID`),
267 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_ACCESS_TIME` (`ACCESS_TIME`),
268 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_ACCESS_TYPE` (`ACCESS_TYPE`),
269 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_RESOURCE_ID` (`RESOURCE_ID`),
270 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_IP_ADDRESS` (`IP_ADDRESS`),
271 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_SESSION_ID` (`SESSION_ID`),
272 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_ACCESS_RESULT` (`ACCESS_RESULT`),
273 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_ACCESS_METHOD` (`ACCESS_METHOD`),
274 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
275 KEY `IDX_ACCESS_LOG_ARCHIVE_2029_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
276 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2029_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
277 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2029_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
278 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
279
280 CREATE TABLE `ACCESS_LOG_ARCHIVE_2030` (
281 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
282 `ACCESS_TIME` datetime NOT NULL,
283 `USER_ID` int(11) NOT NULL,
284 `ACCESS_TYPE` varchar(20) NOT NULL,
285 `RESOURCE_ID` int(11) DEFAULT NULL,
286 `IP_ADDRESS` varchar(45) DEFAULT NULL,
287 `USER_AGENT` varchar(255) DEFAULT NULL,
288 `SESSION_ID` varchar(100) DEFAULT NULL,
289 `ACCESS_RESULT` varchar(20) NOT NULL,
290 `FAILURE_REASON` varchar(100) DEFAULT NULL,
291 `ACCESS_DURATION` int(11) DEFAULT NULL,
292 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
293 `ACCESS_METHOD` varchar(20) NOT NULL,
294 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
295 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
296 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
297 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_USER_ID` (`USER_ID`),
298 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_ACCESS_TIME` (`ACCESS_TIME`),
299 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_ACCESS_TYPE` (`ACCESS_TYPE`),
300 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_RESOURCE_ID` (`RESOURCE_ID`),
301 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_IP_ADDRESS` (`IP_ADDRESS`),
302 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_SESSION_ID` (`SESSION_ID`),
303 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_ACCESS_RESULT` (`ACCESS_RESULT`),
304 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_ACCESS_METHOD` (`ACCESS_METHOD`),
305 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
306 KEY `IDX_ACCESS_LOG_ARCHIVE_2030_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
307 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2030_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
308 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2030_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
309 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
310
311 CREATE TABLE `ACCESS_LOG_ARCHIVE_2031` (
312 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
313 `ACCESS_TIME` datetime NOT NULL,
314 `USER_ID` int(11) NOT NULL,
315 `ACCESS_TYPE` varchar(20) NOT NULL,
316 `RESOURCE_ID` int(11) DEFAULT NULL,
317 `IP_ADDRESS` varchar(45) DEFAULT NULL,
318 `USER_AGENT` varchar(255) DEFAULT NULL,
319 `SESSION_ID` varchar(100) DEFAULT NULL,
320 `ACCESS_RESULT` varchar(20) NOT NULL,
321 `FAILURE_REASON` varchar(100) DEFAULT NULL,
322 `ACCESS_DURATION` int(11) DEFAULT NULL,
323 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
324 `ACCESS_METHOD` varchar(20) NOT NULL,
325 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
326 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
327 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
328 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_USER_ID` (`USER_ID`),
329 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_ACCESS_TIME` (`ACCESS_TIME`),
330 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_ACCESS_TYPE` (`ACCESS_TYPE`),
331 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_RESOURCE_ID` (`RESOURCE_ID`),
332 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_IP_ADDRESS` (`IP_ADDRESS`),
333 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_SESSION_ID` (`SESSION_ID`),
334 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_ACCESS_RESULT` (`ACCESS_RESULT`),
335 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_ACCESS_METHOD` (`ACCESS_METHOD`),
336 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
337 KEY `IDX_ACCESS_LOG_ARCHIVE_2031_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
338 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2031_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
339 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2031_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
340 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
341
342 CREATE TABLE `ACCESS_LOG_ARCHIVE_2032` (
343 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
344 `ACCESS_TIME` datetime NOT NULL,
345 `USER_ID` int(11) NOT NULL,
346 `ACCESS_TYPE` varchar(20) NOT NULL,
347 `RESOURCE_ID` int(11) DEFAULT NULL,
348 `IP_ADDRESS` varchar(45) DEFAULT NULL,
349 `USER_AGENT` varchar(255) DEFAULT NULL,
350 `SESSION_ID` varchar(100) DEFAULT NULL,
351 `ACCESS_RESULT` varchar(20) NOT NULL,
352 `FAILURE_REASON` varchar(100) DEFAULT NULL,
353 `ACCESS_DURATION` int(11) DEFAULT NULL,
354 `ACCESS_LOCATION` varchar(100) DEFAULT NULL,
355 `ACCESS_METHOD` varchar(20) NOT NULL,
356 `ACCESS_LOG_CREATED_AT` datetime NOT NULL,
357 `ACCESS_LOG_UPDATED_AT` datetime NOT NULL,
358 PRIMARY KEY (`ACCESS_LOG_ARCHIVE_ID`),
359 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_USER_ID` (`USER_ID`),
360 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_ACCESS_TIME` (`ACCESS_TIME`),
361 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_ACCESS_TYPE` (`ACCESS_TYPE`),
362 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_RESOURCE_ID` (`RESOURCE_ID`),
363 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_IP_ADDRESS` (`IP_ADDRESS`),
364 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_SESSION_ID` (`SESSION_ID`),
365 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_ACCESS_RESULT` (`ACCESS_RESULT`),
366 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_ACCESS_METHOD` (`ACCESS_METHOD`),
367 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_ACCESS_LOG_CREATED_AT` (`ACCESS_LOG_CREATED_AT`),
368 KEY `IDX_ACCESS_LOG_ARCHIVE_2032_ACCESS_LOG_UPDATED_AT` (`ACCESS_LOG_UPDATED_AT`),
369 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2032_USER_ID` FOREIGN KEY (`USER_ID`) REFERENCES `USER` (`USER_ID`),
370 CONSTRAINT `FK_ACCESS_LOG_ARCHIVE_2032_RESOURCE_ID` FOREIGN KEY (`RESOURCE_ID`) REFERENCES `RESOURCE` (`RESOURCE_ID`)
371 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
372
373 CREATE TABLE `ACCESS_LOG_ARCHIVE_2033` (
374 `ACCESS_LOG_ARCHIVE_ID` int(11) NOT NULL AUTO_INCREMENT,
375 `ACCESS_TIME` datetime NOT NULL,
376 `USER_ID` int(11) NOT NULL,
377 `ACCESS_TYPE` varchar(20) NOT NULL,
378 `RESOURCE_ID` int(11) DEFAULT NULL,
379 `IP_ADDRESS` varchar(45) DEFAULT NULL,
380 `USER_AGENT` varchar(255) DEFAULT NULL,
381 `SESSION_ID` varchar(100) DEFAULT NULL,
382 `ACCESS_RESULT` varchar(20) NOT NULL,
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
000000 00 00 00
```



```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
  1 /*
  2  * Copyright (C) 2011 The Android Open Source Project
  3  *
  4  * Licensed under the Apache License, Version 2.0 (the "License");
  5  * you may not use this file except in compliance with the License.
  6  * You may obtain a copy of the License at
  7  *
  8  *      http://www.apache.org/licenses/LICENSE-2.0
  9  *
 10  * Unless required by applicable law or agreed to in writing, software
 11  * distributed under the License is distributed on an "AS IS" BASIS,
 12  * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 13  * See the License for the specific language governing permissions and
 14  * limitations under the License.
 15  */
 16
 17 package com.android.internal.telephony;
 18
 19 import android.content.Context;
 20 import android.content.Intent;
 21 import android.content.pm.PackageManager;
 22 import android.os.Bundle;
 23 import android.os.Handler;
 24 import android.os.Message;
 25 import android.os.SystemProperties;
 26 import android.provider.Telephony.Sms.Intents;
 27 import android.telephony.Rlog;
 28 import android.telephony.SmsMessage;
 29 import android.text.TextUtils;
 30
 31 import com.android.internal.util.HexDump;
 32 import com.android.internal.util.State;
 33 import com.android.internal.util.StateMachine;
 34
 35 import java.io.ByteArrayOutputStream;
 36 import java.util.Arrays;
 37 import java.util.HashMap;
 38
 39 /**
 40  * This class broadcasts incoming SMS messages to interested apps after storing them in
 41  * the SmsProvider "raw" table and ACKing them to the SMSC. After each message has been
 42  * broadcast, its parts are removed from the raw table. If the device crashes after ACKing
 43  * but before the broadcast completes, then the pending broadcast is rescheduled on reboot.
 44  *
 45  * <p>The state machine starts in {@link IdleState} state. When the {@link SMSDispatcher}
 46  * receives a new SMS from the radio, it calls {@link #dispatchNormalMessage},
 47  * which sends a message to the state machine, causing the wakelock to be acquired in
 48  * {@link #haltedProcessMessage}, and a transition to {@link DeliveringState} state the
 49  * first time a message is received. A message is also sent to perform the initial
 50  * broadcast to registered receivers, along with the {@link InboundSmsTracker} object
 51  * which tracks the raw table row for the message. When all parts have been broadcast
 52  * to registered receivers, the state machine transitions to {@link WaitingState} state.
 53  * Any message received in {@link WaitingState} state will cause a transition to
 54  * {@link DeliveringState} state to broadcast the next pending message. After all parts
 55  * have been broadcast, and there are no more messages to process, the state machine
 56  * transitions to {@link IdleState} state after releasing the wakelock.
 57  *
 58  * <p>The state machine has a timeout of one minute in {@link WaitingState} state. If
 59  * there are no new messages during that time, the raw table is compacted and any
 60  * previously undelivered message is rescheduled for broadcast. This is the only
 61  * method for delivering pending messages that failed to broadcast the first time,
 62  * since the wakelock is released after all messages have been broadcast.
 63  */
 64 public abstract class InboundSmsHandler extends StateMachine {
 65     protected static final boolean DBG = true;
 66     protected static final boolean VERBOSE = false;
 67
 68     /** Special handler for WAP push messages. */
 69     private final WapPushOverSms mWapPush;
 70
 71     /** Wake lock to ensure device stays awake while dispatching the SMS intent. */
 72     private final PowerManager.WakeLock mWakeLock;
 73
 74     /** DefaultState Handler for this state machine. */
 75     private final DefaultState mDefaultState = new DefaultState();
 76
 77     /** StartupState Handler for this state machine. */
 78     private final StartupState mStartupState = new StartupState();
 79
 80     /** IdleState Handler for this state machine. */
 81     private final IdleState mIdleState = new IdleState();
 82
 83     /** DeliveringState Handler for this state machine. */
 84     private final DeliveringState mDeliveringState = new DeliveringState();
 85
 86     /** WaitingState Handler for this state machine. */
 87     private final WaitingState mWaitingState = new WaitingState();
 88
 89     /** UninitializedState Handler for this state machine. */
 90     private final UninitializedState mUninitializedState = new UninitializedState();
 91
 92     /** Delete any partial message segments after 30 days. Only runs when device is idle. */
 93     static final long PARTIAL_SEGMENT_EXPIRE_AGE = (long) (24 * 60 * 60 * 1000) * 30;
 94
 95     /** Log time taken for each message or multi-part message sequence. */
 96     static final boolean LOG_TIMING = false;
 97
 98     /** Timer for dispatching a message to the broadcast receiver. */
 99     private long mBroadcastTimerStart;
100
101     /** Timer for processing a message. */
102     private long mProcessTimerStart;
103
104     /** Context for this state machine. */
105     protected final Context mContext;
106
107     /** Resolver for access to provider tables. */
108     final ContentResolver mResolver;
109
110     /** Boolean flag to store whether the phone is in emergency callback mode. */
111     private boolean mInEmergencyCallMode;
112
113     /** Number of times to retry a failed broadcast. */
114     static final int MAX_BROADCAST_RETRY = 3;
115
116     /** Number of times to retry a failed broadcast for CDMA. */
117     static final int MAX_BROADCAST_RETRY_CDMA = 1;
118
119     /** Number of times to retry a failed broadcast for CDMA. */
120     static final int MAX_BROADCAST_RETRY_CDMA_WAP = 0;
121
122     /** Number of times to retry a failed broadcast for CDMA. */
123     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK = 0;
124
125     /** Number of times to retry a failed broadcast for CDMA. */
126     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP = 0;
127
128     /** Number of times to retry a failed broadcast for CDMA. */
129     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP = 0;
130
131     /** Number of times to retry a failed broadcast for CDMA. */
132     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP = 0;
133
134     /** Number of times to retry a failed broadcast for CDMA. */
135     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP = 0;
136
137     /** Number of times to retry a failed broadcast for CDMA. */
138     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP = 0;
139
140     /** Number of times to retry a failed broadcast for CDMA. */
141     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP = 0;
142
143     /** Number of times to retry a failed broadcast for CDMA. */
144     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
145
146     /** Number of times to retry a failed broadcast for CDMA. */
147     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
148
149     /** Number of times to retry a failed broadcast for CDMA. */
150     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
151
152     /** Number of times to retry a failed broadcast for CDMA. */
153     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
154
155     /** Number of times to retry a failed broadcast for CDMA. */
156     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
157
158     /** Number of times to retry a failed broadcast for CDMA. */
159     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
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161     /** Number of times to retry a failed broadcast for CDMA. */
162     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
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164     /** Number of times to retry a failed broadcast for CDMA. */
165     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
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170     /** Number of times to retry a failed broadcast for CDMA. */
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179     /** Number of times to retry a failed broadcast for CDMA. */
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313
314     /** Number of times to retry a failed broadcast for CDMA. */
315     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
316
317     /** Number of times to retry a failed broadcast for CDMA. */
318     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
319
320     /** Number of times to retry a failed broadcast for CDMA. */
321     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
322
323     /** Number of times to retry a failed broadcast for CDMA. */
324     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
325
326     /** Number of times to retry a failed broadcast for CDMA. */
327     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
328
329     /** Number of times to retry a failed broadcast for CDMA. */
330     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
331
332     /** Number of times to retry a failed broadcast for CDMA. */
333     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
334
335     /** Number of times to retry a failed broadcast for CDMA. */
336     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
337
338     /** Number of times to retry a failed broadcast for CDMA. */
339     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
340
341     /** Number of times to retry a failed broadcast for CDMA. */
342     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
343
344     /** Number of times to retry a failed broadcast for CDMA. */
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346
347     /** Number of times to retry a failed broadcast for CDMA. */
348     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
349
350     /** Number of times to retry a failed broadcast for CDMA. */
351     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
352
353     /** Number of times to retry a failed broadcast for CDMA. */
354     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
355
356     /** Number of times to retry a failed broadcast for CDMA. */
357     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
358
359     /** Number of times to retry a failed broadcast for CDMA. */
360     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
361
362     /** Number of times to retry a failed broadcast for CDMA. */
363     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
364
365     /** Number of times to retry a failed broadcast for CDMA. */
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367
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370
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373
374     /** Number of times to retry a failed broadcast for CDMA. */
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376
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379
380     /** Number of times to retry a failed broadcast for CDMA. */
381     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
382
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385
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388
389     /** Number of times to retry a failed broadcast for CDMA. */
390     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP_DUP = 0;
391
392     /** Number of times to retry a failed broadcast for CDMA. */
393     static final int MAX_BROADCAST_RETRY_CDMA_WAP_DEL_ACK_DU
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
0x0:  0 0 0 
```

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

```
[0m[ 0.000000] Linux version 5.15.0-91-generic (buildd@lcy02-amd64-060) (gcc (Ubuntu 11.4.0-1ubuntu1~22.04) 11.4.0, GNU ld (GNU Binutils for Ubuntu) 2.38) #101-Ubuntu SMP Tue Nov 14 13:30:08 UTC 2023 (Ubuntu 5.15.0-91.101-generic 5.15.131)
[0m[ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.15.0-91-generic root=UUID=3f2a1b4c-9d8e-4f6a-b2c1-7e5d0a3f8b6c ro quiet splash vt.handoff=7
[0m[ 0.000000] KERNEL supported cpus:
[0m[ 0.000000]   Intel GenuineIntel
[0m[ 0.000000]   AMD AuthenticAMD
[0m[ 0.000000]   Hygon HygonGenuine
[0m[ 0.000000]   Centaur CentaurHauls
[0m[ 0.000000]   zhaoxin   Shanghai  
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x008: 'MPX bounds registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x010: 'MPX CSR'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x020: 'AVX-512 opmask'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x200: 'Protection Keys User registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x400: 'PT configuration'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x800: 'Control-flow User registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x1000: 'Control-flow Kernel registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x2000: 'LBR'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x4000: 'HDC'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x8000: 'HWP'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x10000: 'AMX TILECFG'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x20000: 'AMX TILEDATA'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x40000: 'APX'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x80000: 'PASID'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x100000: 'Control-flow User registers'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x4000000: 'AMX TILEDATA'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x8000000: 'APX'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x10000000: 'PASID'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x20000000: 'Control-flow User registers'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x200000000: 'HWP'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x2000000000: 'PASID'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x8000000000: 'Control-flow Kernel registers'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x400000000000: 'PASID'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x8000000000000: 'HWP'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x200000000000000: 'Control-flow Kernel registers'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x10000000000000000: 'PASID'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x20000000000000000: 'Control-flow User registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x40000000000000000: 'Control-flow Kernel registers'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x20000000000000000000000000000000000: 'Control-flow User registers'
[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x40000000000000000000000000000000000: 'Control-flow Kernel registers'
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[0m[ 0.000000] x86/fpu: Supporting XSAVE feature 0x200000000000000000000000000000000000: 'HWP'
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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```
  1 ; ModuleID = 'LLVMDialectModule'
  2 source_filename = "LLVMDialectModule"
  3 target datalayout = "e-m:e-p:64:64-i64:64-i128:128-n64-S128"
  4 target triple = "nvptx64-nvidia-cuda"
  5
  6 @global_smem = external addrspace(3) global [0 x i8], align 16
  7
  8 define void @kernel(ptr addrspace(1) %0, ptr addrspace(1) %1, ptr addrspace(1) %2, ptr addrspace(1) %3, ptr addrspace(1) %4, ptr addrspace(1) %5, ptr addrspace(1) %6, ptr addrspace(1) %7, ptr addrspace(1) %8, ptr addrspace(1) %9, ptr addrspace(1) %10, ptr addrspace(1) %11, ptr addrspace(1) %12, ptr addrspace(1)
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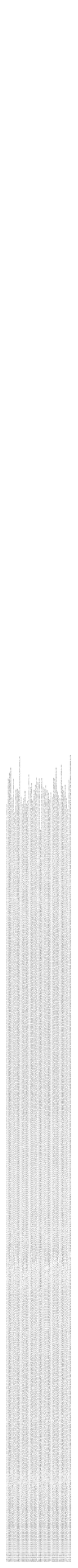

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0001 [0] 0 0 0
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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```
 1 #!/bin/bash
 2 # Copyright (c) 2012 The Chromium Authors. All rights reserved.
 3 # Use of this source code is governed by a BSD-style license that can be
 4 # found in the LICENSE file.
 5
 6 # Script to install everything needed to build chromium (well, ideally, anyway)
 7 # See http://code.google.com/p/chromium/wiki/LinuxBuildInstructions
 8
 9 usage() {
10   echo "Usage: $0 [--options]"
11   echo "Options:"
12   echo "--[no-]syms: enable or disable installation of debugging symbols"
13   echo "--lib32: enable installation of 32-bit libraries, e.g. for V8 snapshot"
14   echo "--[no-]arm: disable installation of arm cross toolchain"
15   echo "--[no-]chromeos-fonts: disable installation of Chrome OS fonts"
16   echo "--[no-]nacl: disable installation of prerequisites for building standalone NaCl and all its toolchains"
17   echo "--no-prompt: silently select standard options/defaults"
18   echo "--quick-check: quickly try to determine if dependencies are installed"
19   echo "--unsupported: attempt installation even on unsupported systems"
20   echo "Script will prompt interactively if options not given."
21   exit 1
22 }
23
24 # Build a list of all the Ubuntu packages we depend on directly.
25 # Optional packages should be added to the list in alphabetical order.
26 # Packages that are only available on some versions of Ubuntu should
27 # be added to the appropriate case statement below.
28 dev_list="apache2.2-bin
29           bison
30           cdbs
31           curl
32           dpkg-dev
33           elfutils
34           fakeroot
35           flex
36           g++
37           gperf
38           language-pack-fr
39           libapache2-mod-php5
40           libasound2-dev
41           libbluetooth-dev
42           libbrlapi-dev
43           libbz2-dev
44           libcairo2-dev
45           libcap-dev
46           libcups2-dev
47           libcurl4-gnutls-dev
48           libdrm-dev
49           libelf-dev
50           libexif-dev
51           libgconf2-dev
52           libgl1-mesa-dev
53           libglib2.0-dev
54           libglu1-mesa-dev
55           libgnome-keyring-dev
56           libgtk2.0-dev
57           libkrb5-dev
58           libnspr4-dev
59           libnss3-dev
60           libpam0g-dev
61           libpci-dev
62           libpulse-dev
63           libsctp-dev
64           libspeech-dispatcher-dev
65           libsqlite3-dev
66           libssl-dev
67           libudev-dev
68           libwww-perl
69           libxslt1-dev
70           libxss-dev
71           libxt-dev
72           libxtst-dev
73           mesa-common-dev
74           openbox
75           patch
76           perl
77           php5-cgi
78           pkg-config
79           python
80           python-cherrypy3
81           python-dev
82           python-psutil
83           rpm
84           ruby
85           subversion
86           ttf-dejavu-core
87           ttf-indic-fonts
88           ttf-kochi-gothic
89           ttf-kochi-mincho
90           ttf-mscorefonts-installer
91           wdiff
92           zip"
93
94 # Full list of Ubuntu packages (i.e. including transitive dependencies)
95 # we depend on directly.
96 # Generated by:
97 # sudo apt-get install `echo $dev_list` && dpkg-query -W -f '${Package}\n' | sort
98 # Optional packages should be added to the list in alphabetical order.
99 # Packages that are only available on some versions of Ubuntu should
100 # be added to the appropriate case statement below.
101 full_list="acl
102            adduser
103            apache2.2-bin
104            apache2.2-common
105            apache2-mpm-prefork
106            apache2-utils
107            apache2.2-common
108            apache2-mpm-prefork
109            apache2-utils
110            apt-utils
111            at-spi
112            base-files
113            base-passwd
114            bash
115            bash-completion
116            binutils
117            bison
118            bsdmainutils
119            bsdutils
120            build-essential
121            bzip2
122            cdbs
123            comerr-dev
124            coreutils
125            cpio
126            cpp
127            cpp-4.4
128            curl
129            dash
130            debconf
131            debconf-i18n
132            debhelper
133            debianutils
134            defoma
135            dh-buildinfo
136            diffutils
137            dmsetup
138            dnsutils
139            dpkg
140            dpkg-dev
141            e2fslibs-dev
142            e2fsprogs
143            elfutils
144            fakeroot
145            file
146            findutils
147            flex
148            fontconfig
149            fontconfig-config
150            fonts-dejavu-core
151            fonts-indic
152            fonts-kacst
153            fonts-kacst-one
154            fonts-khmeros
155            fonts-lao
156            fonts-liberation
157            fonts-mgopen
158            fonts-opensymbol
159            fonts-sil-abyssinica
160            fonts-sil-padauk
161            fonts-stanislav
162            fonts-takao-pgothic
163            fonts-thai-tlwg
164            fonts-tibetan-machine
165            fonts-wqy-microhei
166            fonts-wqy-zenhei
167            g++
168            g++-4.4
169            gamin
170            gawk
171            gcc-4.4-base
172            gconf-service
173            gconf-service-backend
174            gconf2
175            gconf2-common
176            gcp
177            gettext-base
178            ghostscript
179            gnome-icon-theme
180            gnome-keyring
181            gnome-mime-data
182            gnome-pkg-tools
183            gnome-terminal
184            gnome-terminal-data
185            gnome-user-share
186            gperf
187            grep
188            groff-base
189            gsfonts
190            gsfonts-x11
191            gtk2-engines
192            gtk2-engines-pixbuf
193            gzip
194            hal
195            hal-info
196            hicolor-icon-theme
197            hostname
198            ia32-libs
199            ia32-libs-gtk
200            ia32-libs-multiarch
201            icu-devtools
202            ifupdown
203            initramfs-tools
204            initscripts
205            insserv
206            install-info
207            intltool-debian
208            iproute
209            iptables
210            iputils-ping
211            iputils-tracepath
212            isc-dhcp-client
213            isc-dhcp-common
214            kbd
215            keyboard-configuration
216            klibc-utils
217            krb5-multidev
218            language-pack-fr
219            language-selector-common
220            laptop-detect
221            libacl1
222            libacl1-dev
223            libapache2-mod-php5
224            libapache2-mod-php5filter
225            libapr1
226            libaprutil1
227            libaprutil1-dbd-sqlite3
228            libaprutil1-ldap
229            libart-2.0-2
230            libasound2
231            libasound2-dev
232            libasprintf0c2
233            libatk1.0-0
234            libatk1.0-data
235            libatk1.0-dev
236            libattr1
237            libattr1-dev
238            libaudio2
239            libaudit-dev
240            libaudit0
241            libavahi-client3
242            libavahi-common-data
243            libavahi-common3
244            libavahi-glib1
245            libbeecrypt7
246            libbind9-60
247            libbison-dev
248            libbluetooth-dev
249            libbluetooth3
250            libbonobo2-0
251            libbonobo2-common
252            libbonoboui2-0
253            libbonoboui2-common
254            libboost-dev
255            libboost-filesystem-dev
256            libboost-filesystem1.40-dev
257            libboost-filesystem1.40.0
258            libboost-graph-dev
259            libboost-graph1.40-dev
260            libboost-graph1.40.0
261            libboost-iostreams-dev
262            libboost-iostreams1.40-dev
263            libboost-iostreams1.40.0
264            libboost-program-options-dev
265            libboost-program-options1.40-dev
266            libboost-program-options1.40.0
267            libboost-serialization-dev
268            libboost-serialization1.40-dev
269            libboost-serialization1.40.0
270            libboost-system-dev
271            libboost-system1.40-dev
272            libboost-system1.40.0
273            libboost-thread-dev
274            libboost-thread1.40-dev
275            libboost-thread1.40.0
276            libboost1.40-dev
277            libbrlapi-dev
278            libbrlapi0.5
279            libbz2-dev
280            libc-ares-dev
281            libc-ares2
282            libc6
283            libc6-dev
284            libc6-i386
285            libcairo-gobject2
286            libcairo-perl
287            libcairo2
288            libcairo2-dev
289            libcanberra-gtk-module
290            libcanberra0
291            libcap-dev
292            libcap2
293            libcap2-bin
294            libcdt4
295            libcgi-fast-perl
296            libcgi-pm-perl
297            libcgm1
298            libclass-accessor-perl
299            libclass-data-inheritable-perl
300            libclass-singleton-perl
301            libcomerr2
302            libcomerr2-dev
303            libconfig-general-perl
304            libconfig-inifiles-perl
305            libcroco3
306            libcups2
307            libcups2-dev
308            libcupsimage2
309            libcupsimage2-dev
310            libcurl3
311            libcurl3-gnutls
312            libcurl4-gnutls-dev
313            libdatrie1
314            libdb4.7
315            libdb4.7-dev
316            libdb4.7-dev-i386
317            libdb4.7-i386
318            libdb4.7-java
319            libdb4.7-java-dev
320            libdb4.7-java-gcj
321            libdb4.7-java-gcj-dbg
322            libdb4.7-java-gcj-dev
323            libdb4.7-java-gcj-dev-dbg
324            libdb4.7-java-gcj-dev-doc
325            libdb4.7-java-gcj-doc
326            libdb4.7-java-gcj-doc-dbg
327            libdb4.7-java-gcj-doc-dev
328            libdb4.7-java-gcj-doc-dev-dbg
329            libdb4.7-java-gcj-doc-dev-doc
330            libdb4.7-java-gcj-doc-doc
331            libdb4.7-java-gcj-doc-doc-dbg
332            libdb4.7-java-gcj-doc-doc-dev
333            libdb4.7-java-gcj-doc-doc-dev-dbg
334            libdb4.7-java-gcj-doc-doc-dev-doc
335            libdb4.7-java-gcj-doc-doc-doc
336            libdb4.7-java-gcj-doc-doc-doc-dbg
337            libdb4.7-java-gcj-doc-doc-doc-dev
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339            libdb4.7-java-gcj-doc-doc-doc-dev-doc
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341            libdb4.7-java-gcj-doc-doc-doc-doc-dbg
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344            libdb4.7-java-gcj-doc-doc-doc-doc-dev-doc
345            libdb4.7-java-gcj-doc-doc-doc-doc-doc
346            libdb4.7-java-gcj-doc-doc-doc-doc-doc-dbg
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348            libdb4.7-java-gcj-doc-doc-doc-doc-doc-dev-dbg
349            libdb4.7-java-gcj-doc-doc-doc-doc-doc-dev-doc
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351            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-dbg
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356            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-dbg
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374            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-doc
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377            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev
378            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-dbg
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407            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev
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413            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-dbg
414            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-doc
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418            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-dbg
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424            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-doc
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441            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dbg
442            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev
443            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-dbg
444            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-doc
445            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc
446            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dbg
447            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev
448            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-dbg
449            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-doc
450            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc
451            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dbg
452            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev
453            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-dbg
454            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dev-doc
455            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc
456            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-dbg
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475            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc
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496            libdb4.7-java-gcj-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc-doc
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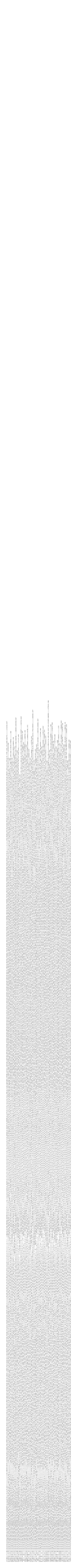

```
1 0 0 0
```

```
  1 #!/usr/bin/env python3
  2 """
  3 Generate synthetic training data for Qwen3-0.6B fine-tuning.
  4 Produces ~2000 examples in JSONL format with prompt/completion pairs.
  5 """
  6 import json
  7 import random
  8 import os
  9 
 10 random.seed(42)
 11 
 12 # --- Topic templates ---
 13 
 14 GREETINGS = [
 15     ("Hello!", "Hello! How can I help you today?"),
 16     ("Hi there", "Hi there! What would you like to know?"),
 17     ("Good morning", "Good morning! I hope you have a great day. How can I assist you?"),
 18     ("Hey", "Hey! What's on your mind?"),
 19     ("Greetings", "Greetings! I'm here to help. What do you need?"),
 20     ("Howdy", "Howdy! How can I be of service?"),
 21     ("Good evening", "Good evening! How may I help you tonight?"),
 22     ("What's up", "Not much! Ready to help you with anything you need."),
 23     ("Yo", "Yo! What can I do for you?"),
 24     ("Hello, how are you?", "I'm doing well, thank you for asking! How can I help you?"),
 25 ]
 26 
 27 FAREWELLS = [
 28     ("Goodbye", "Goodbye! Have a wonderful day!"),
 29     ("Bye", "Bye! Feel free to come back anytime."),
 30     ("See you later", "See you later! Take care!"),
 31     ("I'm leaving now", "Alright, have a great rest of your day!"),
 32     ("Thanks, that's all", "You're welcome! Goodbye and best of luck!"),
 33     ("Farewell", "Farewell! It was a pleasure helping you."),
 34     ("Gotta go", "No problem! Catch you later!"),
 35     ("Signing off", "Signing off! Have a great one!"),
 36     ("That's everything I needed", "Glad I could help! Goodbye!"),
 37     ("Talk to you soon", "Talk to you soon! Bye for now!"),
 38 ]
 39 
 40 MATH = [
 41     ("What is 2 + 2?", "2 + 2 = 4"),
 42     ("What is 15 * 3?", "15 * 3 = 45"),
 43     ("What is 100 / 4?", "100 / 4 = 25"),
 44     ("What is 7 * 8?", "7 * 8 = 56"),
 45     ("What is 144 / 12?", "144 / 12 = 12"),
 46     ("What is 25 + 37?", "25 + 37 = 62"),
 47     ("What is 99 - 45?", "99 - 45 = 54"),
 48     ("What is 13 * 13?", "13 * 13 = 169"),
 49     ("What is 1000 / 8?", "1000 / 8 = 125"),
 50     ("What is 256 + 128?", "256 + 128 = 384"),
 51     ("What is 50 * 6?", "50 * 6 = 300"),
 52     ("What is 81 / 9?", "81 / 9 = 9"),
 53     ("What is 17 + 29?", "17 + 29 = 46"),
 54     ("What is 200 - 73?", "200 - 73 = 127"),
 55     ("What is 12 * 12?", "12 * 12 = 144"),
 56     ("What is 500 / 25?", "500 / 25 = 20"),
 57     ("What is 64 + 36?", "64 + 36 = 100"),
 58     ("What is 9 * 11?", "9 * 11 = 99"),
 59     ("What is 1024 / 32?", "1024 / 32 = 32"),
 60     ("What is 45 + 55?", "45 + 55 = 100"),
 61 ]
 62 
 63 FACTS = [
 64     ("What is the capital of France?", "The capital of France is Paris."),
 65     ("What is the capital of Japan?", "The capital of Japan is Tokyo."),
 66     ("What is the capital of Germany?", "The capital of Germany is Berlin."),
 67     ("What is the capital of Italy?", "The capital of Italy is Rome."),
 68     ("What is the capital of Spain?", "The capital of Spain is Madrid."),
 69     ("What is the capital of Canada?", "The capital of Canada is Ottawa."),
 70     ("What is the capital of Australia?", "The capital of Australia is Canberra."),
 71     ("What is the capital of Brazil?", "The capital of Brazil is Brasília."),
 72     ("What is the capital of China?", "The capital of China is Beijing."),
 73     ("What is the capital of India?", "The capital of India is New Delhi."),
 74     ("What is the capital of Russia?", "The capital of Russia is Moscow."),
 75     ("What is the capital of Egypt?", "The capital of Egypt is Cairo."),
 76     ("What is the capital of Mexico?", "The capital of Mexico is Mexico City."),
 77     ("What is the capital of South Korea?", "The capital of South Korea is Seoul."),
 78     ("What is the capital of Argentina?", "The capital of Argentina is Buenos Aires."),
 79     ("What is the capital of Sweden?", "The capital of Sweden is Stockholm."),
 80     ("What is the capital of Norway?", "The capital of Norway is Oslo."),
 81     ("What is the capital of Portugal?", "The capital of Portugal is Lisbon."),
 82     ("What is the capital of Greece?", "The capital of Greece is Athens."),
 83     ("What is the capital of Turkey?", "The capital of Turkey is Ankara."),
 84     ("How many planets are in the solar system?", "There are 8 planets in the solar system."),
 85     ("What is the largest planet?", "The largest planet is Jupiter."),
 86     ("What is the smallest planet?", "The smallest planet is Mercury."),
 87     ("How many continents are there?", "There are 7 continents."),
 88     ("What is the largest ocean?", "The largest ocean is the Pacific Ocean."),
 89     ("What is the tallest mountain?", "The tallest mountain is Mount Everest."),
 90     ("What is the longest river?", "The longest river is the Nile."),
 91     ("How many days in a year?", "There are 365 days in a year (366 in a leap year)."),
 92     ("How many hours in a day?", "There are 24 hours in a day."),
 93     ("How many minutes in an hour?", "There are 60 minutes in an hour."),
 94     ("How many seconds in a minute?", "There are 60 seconds in a minute."),
 95     ("What is the speed of light?", "The speed of light is approximately 299,792,458 meters per second."),
 96     ("What is water made of?", "Water is made of two hydrogen atoms and one oxygen atom (H2O)."),
 97     ("What is the boiling point of water?", "The boiling point of water is 100°C (212°F) at sea level."),
 98     ("What is the freezing point of water?", "The freezing point of water is 0°C (32°F)."),
 99     ("How many bones in the human body?", "An adult human body has 206 bones."),
100     ("What is the largest organ?", "The largest organ is the skin."),
101     ("What is DNA?", "DNA (deoxyribonucleic acid) is a molecule that carries genetic instructions for development, functioning, growth and reproduction."),
102     ("What is photosynthesis?", "Photosynthesis is the process by which plants use sunlight, water, and carbon dioxide to produce oxygen and energy in the form of sugar."),
103     ("What is gravity?", "Gravity is a force that attracts objects with mass toward each other."),
104     ("Who wrote Romeo and Juliet?", "Romeo and Juliet was written by William Shakespeare."),
105     ("Who painted the Mona Lisa?", "The Mona Lisa was painted by Leonardo da Vinci."),
106     ("Who invented the telephone?", "The telephone was invented by Alexander Graham Bell."),
107     ("Who was the first person on the moon?", "The first person on the moon was Neil Armstrong, in 1969."),
108     ("What year did World War II end?", "World War II ended in 1945."),
109     ("What year did the Berlin Wall fall?", "The Berlin Wall fell in 1989."),
110     ("What is the currency of the United States?", "The currency of the United States is the US Dollar (USD)."),
111     ("What is the currency of Japan?", "The currency of Japan is the Japanese Yen (JPY)."),
112     ("What is the currency of the European Union?", "The currency of the European Union is the Euro (EUR)."),
113     ("What is the currency of the United Kingdom?", "The currency of the United Kingdom is the British Pound Sterling (GBP)."),
114     ("What is the currency of Switzerland?", "The currency of Switzerland is the Swiss Franc (CHF)."),
115     ("What is the currency of Canada?", "The currency of Canada is the Canadian Dollar (CAD)."),
116     ("What is the currency of Australia?", "The currency of Australia is the Australian Dollar (AUD)."),
117     ("What is the currency of China?", "The currency of China is the Chinese Yuan (CNY)."),
118     ("What is the currency of India?", "The currency of India is the Indian Rupee (INR)."),
119     ("What is the currency of Mexico?", "The currency of Mexico is the Mexican Peso (MXN)."),
120     ("What is the currency of Brazil?", "The currency of Brazil is the Brazilian Real (BRL)."),
121     ("What is the currency of South Korea?", "The currency of South Korea is the South Korean Won (KRW)."),
122     ("What is the currency of Russia?", "The currency of Russia is the Russian Ruble (RUB)."),
123     ("What is the currency of Sweden?", "The currency of Sweden is the Swedish Krona (SEK)."),
124     ("What is the currency of Norway?", "The currency of Norway is the Norwegian Krone (NOK)."),
125     ("What is the currency of Turkey?", "The currency of Turkey is the Turkish Lira (TRY)."),
126     ("What is the currency of Egypt?", "The currency of Egypt is the Egyptian Pound (EGP)."),
127     ("What is the currency of Argentina?", "The currency of Argentina is the Argentine Peso (ARS)."),
128     ("What is the currency of Portugal?", "The currency of Portugal is the Euro (EUR)."),
129     ("What is the currency of Greece?", "The currency of Greece is the Euro (EUR)."),
130     ("What is the currency of Spain?", "The currency of Spain is the Euro (EUR)."),
131     ("What is the currency of Italy?", "The currency of Italy is the Euro (EUR)."),
132     ("What is the currency of Germany?", "The currency of Germany is the Euro (EUR)."),
133     ("What is the currency of France?", "The currency of France is the Euro (EUR)."),
134     ("What is the currency of Poland?", "The currency of Poland is the Polish Zloty (PLN)."),
135     ("What is the currency of Thailand?", "The currency of Thailand is the Thai Baht (THB)."),
136     ("What is the currency of Indonesia?", "The currency of Indonesia is the Indonesian Rupiah (IDR)."),
137     ("What is the currency of Malaysia?", "The currency of Malaysia is the Malaysian Ringgit (MYR)."),
138     ("What is the currency of Singapore?", "The currency of Singapore is the Singapore Dollar (SGD)."),
139     ("What is the currency of New Zealand?", "The currency of New Zealand is the New Zealand Dollar (NZD)."),
140     ("What is the currency of South Africa?", "The currency of South Africa is the South African Rand (ZAR)."),
141     ("What is the currency of Nigeria?", "The currency of Nigeria is the Nigerian Naira (NGN)."),
142     ("What is the currency of Kenya?", "The currency of Kenya is the Kenyan Shilling (KES)."),
143     ("What is the currency of Saudi Arabia?", "The currency of Saudi Arabia is the Saudi Riyal (SAR)."),
144     ("What is the currency of the United Arab Emirates?", "The currency of the United Arab Emirates is the UAE Dirham (AED)."),
145     ("What is the currency of Israel?", "The currency of Israel is the Israeli New Shekel (ILS)."),
146     ("What is the currency of Chile?", "The currency of Chile is the Chilean Peso (CLP)."),
147     ("What is the currency of Colombia?", "The currency of Colombia is the Colombian Peso (COP)."),
148     ("What is the currency of Peru?", "The currency of Peru is the Peruvian Sol (PEN)."),
149     ("What is the currency of Vietnam?", "The currency of Vietnam is the Vietnamese Dong (VND)."),
150     ("What is the currency of the Philippines?", "The currency of the Philippines is the Philippine Peso (PHP)."),
151     ("What is the currency of Pakistan?", "The currency of Pakistan is the Pakistani Rupee (PKR)."),
152     ("What is the currency of Bangladesh?", "The currency of Bangladesh is the Bangladeshi Taka (BDT)."),
153     ("What is the currency of Sri Lanka?", "The currency of Sri Lanka is the Sri Lankan Rupee (LKR)."),
154     ("What is the currency of Nepal?", "The currency of Nepal is the Nepalese Rupee (NPR)."),
155     ("What is the currency of Myanmar?", "The currency of Myanmar is the Myanmar Kyat (MMK)."),
156     ("What is the currency of Cambodia?", "The currency of Cambodia is the Cambodian Riel (KHR)."),
157     ("What is the currency of Laos?", "The currency of Laos is the Lao Kip (LAK)."),
158     ("What is the currency of Mongolia?", "The currency of Mongolia is the Mongolian Tugrik (MNT)."),
159     ("What is the currency of Kazakhstan?", "The currency of Kazakhstan is the Kazakhstani Tenge (KZT)."),
160     ("What is the currency of Uzbekistan?", "The currency of Uzbekistan is the Uzbekistani Som (UZS)."),
161     ("What is the currency of Ukraine?", "The currency of Ukraine is the Ukrainian Hryvnia (UAH)."),
162     ("What is the currency of Belarus?", "The currency of Belarus is the Belarusian Ruble (BYN)."),
163     ("What is the currency of Czech Republic?", "The currency of the Czech Republic is the Czech Koruna (CZK)."),
164     ("What is the currency of Hungary?", "The currency of Hungary is the Hungarian Forint (HUF)."),
165     ("What is the currency of Romania?", "The currency of Romania is the Romanian Leu (RON)."),
166     ("What is the currency of Bulgaria?", "The currency of Bulgaria is the Bulgarian Lev (BGN)."),
167     ("What is the currency of Croatia?", "The currency of Croatia is the Croatian Kuna (HRK)."),
168     ("What is the currency of Serbia?", "The currency of Serbia is the Serbian Dinar (RSD)."),
169     ("What is the currency of Bosnia and Herzegovina?", "The currency of Bosnia and Herzegovina is the Bosnia and Herzegovina Convertible Mark (BAM)."),
170     ("What is the currency of North Macedonia?", "The currency of North Macedonia is the Macedonian Denar (MKD)."),
171     ("What is the currency of Albania?", "The currency of Albania is the Albanian Lek (ALL)."),
172     ("What is the currency of Montenegro?", "The currency of Montenegro is the Euro (EUR)."),
173     ("What is the currency of Kosovo?", "The currency of Kosovo is the Euro (EUR)."),
174     ("What is the currency of Moldova?", "The currency of Moldova is the Moldovan Leu (MDL)."),
175     ("What is the currency of Georgia?", "The currency of Georgia is the Georgian Lari (GEL)."),
176     ("What is the currency of Armenia?", "The currency of Armenia is the Armenian Dram (AMD)."),
177     ("What is the currency of Azerbaijan?", "The currency of Azerbaijan is the Azerbaijani Manat (AZN)."),
178     ("What is the currency of Iran?", "The currency of Iran is the Iranian Rial (IRR)."),
179     ("What is the currency of Iraq?", "The currency of Iraq is the Iraqi Dinar (IQD)."),
180     ("What is the currency of Jordan?", "The currency of Jordan is the Jordanian Dinar (JOD)."),
181     ("What is the currency of Lebanon?", "The currency of Lebanon is the Lebanese Pound (LBP)."),
182     ("What is the currency of Syria?", "The currency of Syria is the Syrian Pound (SYP)."),
183     ("What is the currency of Yemen?", "The currency of Yemen is the Yemeni Rial (YER)."),
184     ("What is the currency of Oman?", "The currency of Oman is the Omani Rial (OMR)."),
185     ("What is the currency of Kuwait?", "The currency of Kuwait is the Kuwaiti Dinar (KWD)."),
186     ("What is the currency of Bahrain?", "The currency of Bahrain is the Bahraini Dinar (BHD)."),
187     ("What is the currency of Qatar?", "The currency of Qatar is the Qatari Riyal (QAR)."),
188     ("What is the currency of Afghanistan?", "The currency of Afghanistan is the Afghan Afghani (AFN)."),
189     ("What is the currency of Tajikistan?", "The currency of Tajikistan is the Tajikistani Somoni (TJS)."),
190     ("What is the currency of Kyrgyzstan?", "The currency of Kyrgyzstan is the Kyrgyzstani Som (KGS)."),
191     ("What is the currency of Turkmenistan?", "The currency of Turkmenistan is the Turkmenistan Manat (TMT)."),
192     ("What is the currency of Ethiopia?", "The currency of Ethiopia is the Ethiopian Birr (ETB)."),
193     ("What is the currency of Ghana?", "The currency of Ghana is the Ghanaian Cedi (GHS)."),
194     ("What is the currency of Tanzania?", "The currency of Tanzania is the Tanzanian Shilling (TZS)."),
195     ("What is the currency of Uganda?", "The currency of Uganda is the Ugandan Shilling (UGX)."),
196     ("What is the currency of Rwanda?", "The currency of Rwanda is the Rwandan Franc (RWF)."),
197     ("What is the currency of Zambia?", "The currency of Zambia is the Zambian Kwacha (ZMW)."),
198     ("What is the currency of Zimbabwe?", "The currency of Zimbabwe is the Zimbabwean Dollar (ZWL)."),
199     ("What is the currency of Botswana?", "The currency of Botswana is the Botswana Pula (BWP)."),
200     ("What is the currency of Namibia?", "The currency of Namibia is the Namibian Dollar (NAD)."),
201     ("What is the currency of Mozambique?", "The currency of Mozambique is the Mozambican Metical (MZN)."),
202     ("What is the currency of Angola?", "The currency of Angola is the Angolan Kwanza (AOA)."),
203     ("What is the currency of Cameroon?", "The currency of Cameroon is the Central African CFA Franc (XAF)."),
204     ("What is the currency of Senegal?", "The currency of Senegal is the West African CFA Franc (XOF)."),
205     ("What is the currency of Ivory Coast?", "The currency of Ivory Coast is the West African CFA Franc (XOF)."),
206     ("What is the currency of Mali?", "The currency of Mali is the West African CFA Franc (XOF)."),
207     ("What is the currency of Burkina Faso?", "The currency of Burkina Faso is the West African CFA Franc (XOF)."),
208     ("What is the currency of Niger?", "The currency of Niger is the West African CFA Franc (XOF)."),
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213     ("What is the currency of Liberia?", "The currency of Liberia is the Liberian Dollar (LRD)."),
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Merge pull request #1235 from feature/user-authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Merge pull request #1234 from feature/user-authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Merge pull request #1233 from feature/user-authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> (origin/feature/user-authentication, feature/user-authentication) Add comprehensive unit tests for authentication module
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Merge pull request #1220 from feature/user-authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Create database schema for user authentication
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Initial setup for authentication feature
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Implement JWT token validation middleware
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Add user login and registration endpoints
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Mon Jan 13 00:00:00 2025 -0500 <Alice Johnson> Impl
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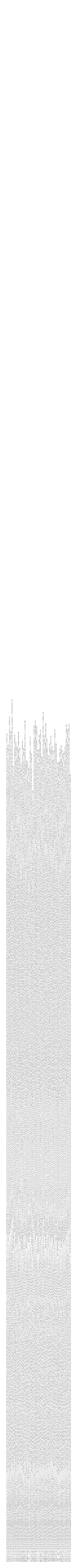

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
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