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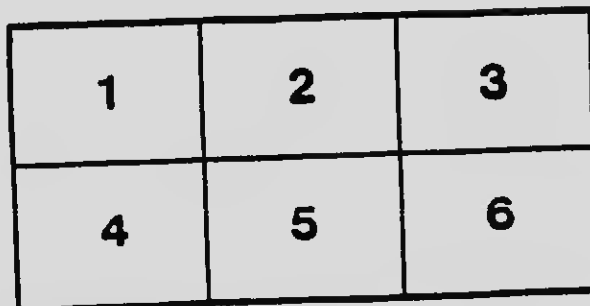
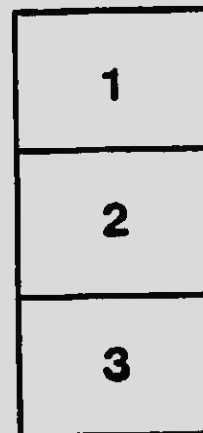
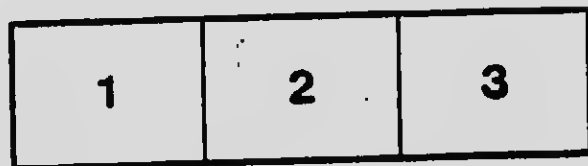
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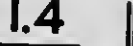
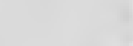
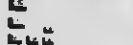
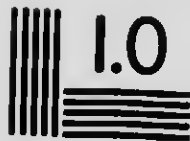
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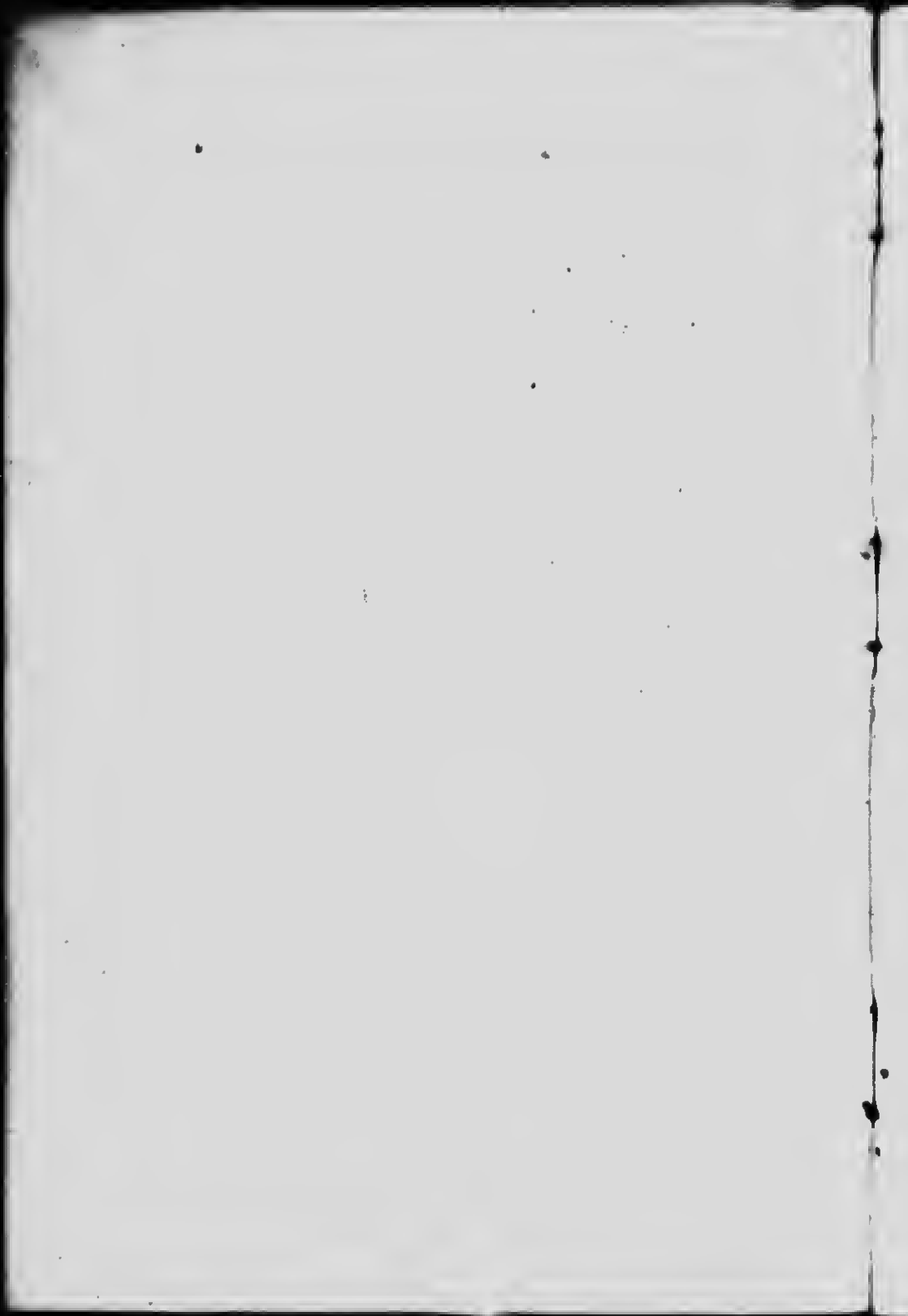


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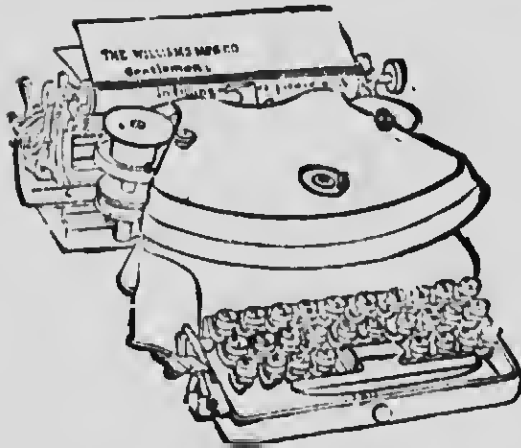
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BRITISH COLUMBIA LOG SCALE

PREFACE

IN order to allay the friction existing between millmen and loggers throughout the Province regarding the proper method of ascertaining the board-measure contents of logs, especially those of large dimensions, the Honourable the Chief Commissioner of Lands and Works appointed Messrs. Richard Alexander, of Vancouver, M. King of Victoria and A. Haslem, M. P., of Nanaimo, a committee to make a thorough examination of the question, and to devise a rule which would satisfy as nearly as possible all the demands of both loggers and millmen.

The result of their labors was placed before a general meeting of Members of the Legislature, mill owners and loggers, and the rule, as devised, being thoroughly explained by means of diagrams, and by practical results obtained in several mills, was approved and adopted. Tables were ordered to be computed according to the rule and printed in the form of a book, which should be authoritative, and known as the "British Columbia Log Scale."

THE RULE

Deduct one and a half inches from the mean diameter in inches at the small end of the log.

Square the result and multiply by .7854 to find area.

Deduct $\frac{3}{16}$

Divide by 12 to bring to board measure and multiply by the length of the log in feet.

The above is intended to apply to all logs whose length is not greater than 40 feet.

It is further provided that in cases of logs over 40 feet in length an allowance on half the length of the log is made in order to compensate for the increase in diameter; this allowance consists of an increase in the mean diameter at the small end of one inch for each additional 10 feet in length over 40 feet. In other words, in cases of logs from 42 to 50 feet long the contents of half the length of the log are to be computed according to the mean diameter at the small end, the contents of the other half of the log according to a diameter one inch greater than the mean diameter at the small end; in cases of logs from 50 to 60 feet long, the contents of half the log according to the mean diameter at the small end, and those of the other half according to a diameter two inches greater than the mean at the small end, and so on; the contents of the second half to be computed according to a diameter one inch greater than that of the mean at the small end for each additional 10 feet in length after 40 feet.

It was not, however, considered necessary to extend the table for a length of log greater than 40 feet, as the contents of such a log of given diameter may be obtained with sufficient accuracy by adding the tabular contents of half the length of the log at the given diameter to the tabular contents of a similar log at a diameter increased one inch for each additional 10 feet in length beyond 40 feet.

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VANCOUVER, B. C

Contents of Logs in inch-board measure.

Length of log in feet.	DIAMETER							
	10"	11"	12"	13"	14"	15"	16"	17"
1	3	4	5	6	7	9	10	11
10	34	43	53	63	74	87	100	114
11	38	47	58	69	82	95	110	126
12	41	52	63	76	89	104	120	137
13	45	56	68	82	97	113	130	149
14	48	60	73	88	104	121	140	160
15	52	64	79	94	112	130	150	172
16	55	69	84	101	119	139	160	183
17	58	73	89	107	126	147	170	194
18	62	77	94	113	134	156	180	206
19	65	82	100	120	141	165	190	217
20	69	86	105	126	149	173	200	229
21	72	90	110	132	156	182	210	240
22	76	94	115	138	164	191	220	252
23	79	99	121	145	171	200	230	263
24	83	103	126	151	178	208	240	274
25	86	107	131	157	186	217	250	286
26	89	112	136	164	193	226	260	297
27	93	116	142	170	201	234	270	309
28	96	120	147	176	208	243	280	320
29	100	125	152	183	216	252	290	332
30	103	129	157	189	223	260	300	343
31	107	133	163	195	231	269	310	354
32	110	137	168	201	238	278	320	366
33	113	142	173	208	245	286	330	377
34	117	146	178	214	253	295	340	389
35	120	150	184	220	260	304	350	400
36	124	155	189	227	268	312	360	412
37	127	159	194	233	275	321	370	423
38	131	163	199	239	283	330	380	435
39	134	168	205	245	290	338	390	446
40	138	172	210	252	297	347	400	457

Contents of Logs in inch-board measure

Length of log in feet.	DIAMETER							
	18"	19"	20"	21"	22"	23"	24"	25"
1	1	15	16	18	20	22	24	26
10	13	146	163	181	200	220	241	263
11	143	160	179	199	220	242	265	289
12	155	175	195	217	240	264	289	315
13	168	189	212	235	260	286	313	342
14	181	204	228	253	280	308	337	368
15	194	219	244	271	300	330	361	394
16	207	233	261	290	320	352	386	421
17	220	248	277	308	340	374	410	447
18	233	262	293	326	360	396	434	473
19	246	277	309	344	380	418	458	499
20	259	292	326	362	400	440	482	526
21	272	306	342	380	420	462	506	552
22	285	321	358	398	440	484	530	578
23	298	335	375	416	460	506	554	605
24	311	350	391	434	480	528	578	631
25	324	364	407	452	500	550	602	657
26	337	379	424	471	520	572	626	683
27	350	394	440	489	540	594	651	710
28	363	408	456	507	560	616	675	736
29	376	423	472	525	580	638	699	762
30	389	437	489	543	600	660	723	789
31	402	452	505	561	620	682	747	815
32	415	466	521	579	640	704	771	841
33	428	481	538	597	660	726	795	867
34	441	496	554	615	680	748	819	894
35	454	510	570	633	700	770	843	920
36	466	525	586	652	720	792	867	946
37	479	539	603	670	740	814	892	973
38	492	554	619	688	760	836	916	999
39	505	568	635	706	780	858	940	1025
40	518	583	652	724	800	880	964	1051

Contents of Logs in inch-board measure.

Length of log in feet.	DIAMETER							
	26"	27"	28"	29"	30"	31"	32"	33"
1	29	31	33	36	39	41	44	47
10	286	309	334	360	387	414	443	472
11	314	340	368	396	425	456	487	519
12	343	371	401	432	464	497	531	567
13	371	402	435	468	503	538	576	614
14	400	433	468	504	541	580	620	661
15	429	464	501	540	580	621	664	708
16	457	495	535	576	619	663	708	756
17	486	526	569	612	657	704	753	803
18	514	557	602	648	696	746	797	850
19	543	588	635	684	735	787	841	897
20	571	619	668	720	773	828	886	945
21	600	650	702	756	812	870	930	992
22	629	681	735	791	850	911	974	1039
23	657	712	769	828	889	953	1018	1086
24	686	743	802	864	928	994	1063	1133
25	714	774	836	900	966	1036	1107	1181
26	743	805	869	936	1005	1077	1151	1228
27	771	836	902	972	1044	1118	1195	1275
28	800	867	936	1008	1082	1160	1240	1322
29	829	898	969	1044	1121	1201	1284	1370
30	857	928	1003	1080	1160	1243	1328	1417
31	886	959	1036	1116	1198	1284	1373	1464
32	914	990	1070	1152	1237	1325	1417	1511
33	943	1021	1103	1188	1276	1367	1461	1558
34	971	1052	1136	1224	1314	1408	1505	1606
35	1000	1083	1170	1260	1353	1450	1550	1653
36	1028	1114	1203	1296	1392	1491	1594	1700
37	1057	1145	1237	1332	1430	1533	1638	1747
38	1086	1176	1270	1368	1469	1574	1682	1795
39	1114	1207	1304	1404	1508	1615	1727	1842
40	1143	1238	1337	1440	1546	1657	1771	1889

Contents of Logs in inch-board measure.

Length of log in feet.	DIAMETER							
	34"	35"	36"	37"	38"	39"	40"	41"
1	50	53	57	60	63	67	71	74
10	503	534	567	600	634	669	705	743
11	553	588	623	660	698	736	776	817
12	603	641	680	720	761	803	847	891
13	654	694	736	780	824	870	917	965
14	704	748	793	840	888	937	988	1040
15	754	801	850	900	951	1004	1058	1114
16	804	855	906	960	1015	1071	1129	1188
17	855	908	963	1020	1078	1138	1199	1262
18	905	961	1020	1080	1141	1205	1270	1337
19	955	1015	1076	1140	1205	1272	1340	1411
20	1005	1068	1133	1200	1268	1339	1411	1485
21	1056	1122	1190	1260	1332	1406	1482	1559
22	1106	1175	1246	1320	1395	1472	1552	1634
23	1156	1229	1303	1380	1458	1539	1623	1708
24	1207	1282	1360	1440	1522	1606	1693	1782
25	1257	1335	1416	1500	1585	1673	1764	1857
26	1307	1389	1473	1560	1649	1740	1834	1931
27	1357	1442	1530	1619	1712	1807	1905	2005
28	1408	1496	1586	1679	1775	1874	1975	2079
29	1458	1549	1643	1739	1839	1941	2046	2154
30	1508	1602	1700	1799	1902	2008	2116	2228
31	1558	1656	1756	1859	1966	2075	2187	2302
32	1609	1709	1813	1919	2029	2142	2258	2376
33	1657	1763	1870	1979	2092	2209	2328	2451
34	1709	1816	1926	2039	2156	2276	2399	2525
35	1760	1869	1983	2099	2219	2343	2469	2599
36	1810	1923	2039	2159	2283	2410	2540	2673
37	1860	1976	2096	2219	2346	2476	2610	2748
38	1910	2030	2153	2279	2410	2543	2681	2822
39	1961	2083	2209	2339	2473	2610	2751	2896
40	2011	2137	2266	2399	2536	2677	2822	2970

Contents of Logs in inch-board measure.

Length of log in feet.	DIAMETER							
	42"	43"	44"	45"	46"	47"	48"	49"
1	78	82	86	90	94	99	103	107
10	781	820	860	901	943	985	1029	1074
11	859	902	946	991	1037	1084	1132	1181
12	937	984	1032	1081	1131	1182	1235	1289
13	1015	1066	1118	1171	1225	1281	1338	1396
14	1093	1148	1204	1261	1320	1379	1441	1503
15	1171	1230	1290	1351	1414	1478	1544	1611
16	1249	1312	1376	1441	1508	1577	1647	1718
17	1327	1394	1461	1531	1602	1675	1750	1826
18	1405	1475	1547	1621	1697	1774	1852	1933
19	1483	1557	1633	1711	1791	1872	1955	2040
20	1561	1639	1719	1801	1885	1971	2058	2148
21	1639	1721	1805	1891	1979	2069	2161	2255
22	1717	1803	1891	1981	2074	2168	2264	2362
23	1796	1885	1977	2071	2168	2266	2367	2470
24	1874	1967	2063	2161	2262	2365	2470	2577
25	1952	2049	2149	2252	2356	2463	2573	2685
26	2030	2131	2235	2342	2451	2562	2676	2792
27	2108	2213	2321	2432	2545	2660	2779	2899
28	2186	2295	2407	2522	2639	2759	2882	3007
29	2264	2377	2493	2612	2733	2857	2984	3114
30	2342	2459	2579	2702	2828	2956	3087	3222
31	2420	2541	2665	2792	2922	3055	3190	3329
32	2498	2623	2751	2882	3016	3153	3293	3436
33	2576	2705	2837	2972	3110	3252	3396	3544
34	2654	2787	2923	3062	3205	3350	3499	3651
35	2732	2869	3009	3152	3299	3449	3602	3759
36	2810	2951	3095	3242	3393	3547	3705	3866
37	2889	3033	3181	3332	3487	3646	3808	3973
38	2967	3115	3267	3422	3582	3744	3911	4081
39	3045	3197	3353	3512	3676	3843	4014	4188
40	3123	3279	3439	3602	3770	3941	4117	4295

Contents of Logs in inch-board measure.

Length of log in feet.	DIAMETER							
	50"	51"	52"	53"	54"	55"	56"	57"
1	111	117	121	126	131	136	141	147
10	1120	1166	1214	1262	1312	1362	1414	1466
11	1232	1283	1335	1389	1443	1499	1555	1613
12	1343	1399	1457	1515	1574	1635	1696	1759
13	1455	1516	1578	1641	1705	1771	1838	1906
14	1567	1633	1699	1767	1837	1907	1979	2052
15	1679	1749	1821	1894	1968	2043	2121	2199
16	1791	1866	1942	2020	2099	2180	2262	2346
17	1903	1983	2063	2146	2230	2316	2403	2492
18	2015	2099	2185	2272	2361	2452	2545	2639
19	2127	2216	2306	2398	2492	2588	2686	2785
20	2239	2332	2428	2525	2624	2725	2827	2932
21	2351	2449	2549	2651	2755	2861	2969	3079
22	2463	2566	2670	2777	2886	2997	3110	3225
23	2575	2682	2792	2903	3017	3133	3251	3372
24	2687	2799	2913	3030	3148	3269	3393	3519
25	2799	2916	3034	3156	3280	3406	3534	3665
26	2911	3032	3156	3282	3411	3542	3676	3812
27	3023	3149	3277	3408	3542	3678	3817	3958
28	3135	3265	3399	3535	3673	3814	3958	4105
29	3247	3382	3520	3661	3804	3951	4100	4252
30	3359	3499	3641	3787	3936	4087	4241	4398
31	3471	3615	3763	3913	4067	4223	4382	4545
32	3583	3732	3884	4039	4198	4359	4524	4691
33	3695	3848	4006	4166	4329	4496	4665	4838
34	3807	3965	4127	4292	4460	4632	4807	4985
35	3918	4082	4248	4418	4591	4768	4948	5131
36	4030	4198	4370	4544	4723	4904	5089	5278
37	4142	4315	4491	4671	4854	5046	5231	5424
38	4254	4432	4612	4797	4985	5177	5372	5571
39	4366	4548	4734	4923	5116	5313	5513	5718
40	4478	4665	4855	5049	5247	5449	5655	5864

Contents of Logs in inch.board measure.

Length of log in feet.	DIAMETER							
	58"	59"	60"	61"	62"	63"	64"	65"
1	152	157	163	168	174	180	186	192
10	1519	1574	1629	1685	1742	1800	1859	1919
11	1671	1731	1792	1853	1916	1980	2045	2111
12	1823	1888	1955	2022	2091	2160	2231	2303
13	1975	2046	2117	2190	2265	2340	2417	2495
14	2127	2203	2280	2359	2439	2520	2603	2687
15	2279	2360	2443	2527	2613	2700	2789	2879
16	2431	2518	2606	2696	2787	2880	2975	3071
17	2583	2675	2769	2864	2962	3060	3161	3263
18	2735	2832	2932	3033	3136	3240	3347	3454
19	2887	2990	3095	3201	3310	3420	3532	3646
20	3039	3147	3258	3370	3484	3600	3718	3838
21	3191	3305	3421	3538	3658	3780	3904	4030
22	3343	3462	3583	3707	3833	3960	4090	4222
23	3495	3620	3746	3875	4007	4140	4276	4414
24	3646	3777	3909	4044	4181	4320	4462	4606
25	3798	3934	4072	4212	4355	4500	4648	4798
26	3950	4091	4235	4381	4529	4680	4834	4990
27	4102	4249	4398	4549	4704	4860	5020	5182
28	4254	4406	4561	4718	4878	5040	5206	5374
29	4406	4563	4724	4886	5052	5220	5392	5566
30	4558	4721	4886	5055	5226	5401	5578	5757
31	4710	4878	5040	5223	5401	5581	5763	5949
32	4862	5036	5212	5392	5575	5761	5949	6141
33	5014	5193	5375	5560	5749	5941	6135	6333
34	5166	5350	5538	5729	5923	6121	6321	6523
35	5318	5508	5701	5897	6097	6301	6507	6717
36	5470	5665	5864	6066	6272	6481	6693	6909
37	5622	5822	6027	6234	6446	6661	6879	7101
38	5774	5980	6190	6403	6620	6841	7065	7293
39	5926	6137	6352	6571	6794	7021	7251	7485
40	6077	6294	6515	6740	6968	7201	7437	7677

Contents of Logs in inch-board measure.

Length of log in feet.	DIAMETER							
	66"	67"	68"	69"	70"	71"	72"	78"
1	198	204	210	217	223	230	237	243
10	1980	2042	2105	2169	2233	2299	2366	2433
11	2178	2246	2315	2385	2457	2529	2602	2677
12	2376	2450	2526	2602	2680	2759	2839	2920
13	2574	2655	2736	2819	2903	2989	3075	3163
14	2772	2859	2947	3036	3127	3219	3312	3407
15	2970	3063	3157	3253	3350	3448	3548	3650
16	3168	3267	3368	3470	3573	3678	3785	3893
17	3366	3471	3578	3687	3797	3908	4021	4137
18	3564	3676	3789	3903	4020	4138	4258	4380
19	3762	3880	3999	4120	4243	4368	4495	4623
20	3960	4084	4210	4337	4467	4598	4731	4867
21	4158	4288	4420	4554	4690	4829	4968	5110
22	4356	4492	4631	4771	4913	5058	5204	5353
23	4554	4696	4841	4988	5137	5288	5441	5597
24	4752	4901	5051	5205	5360	5518	5677	5840
25	4950	5105	5262	5421	5583	5747	5914	6083
26	5148	5309	5472	5638	5807	5977	6151	6327
27	5346	5513	5683	5855	6030	6207	6387	6570
28	5544	5717	5893	6072	6253	6437	6624	6813
29	5742	5922	6104	6289	6477	6667	6860	7057
30	5940	6128	6314	6506	6700	6897	7097	7300
30	6138	6330	6525	6723	6923	7127	7333	7543
32	6336	6534	6735	6939	7146	7357	7570	7787
33	6534	6738	6946	7156	7370	7587	7806	8030
34	6732	6943	7156	7373	7593	7816	8043	8273
35	6930	7147	7367	7590	7816	8046	8280	8517
36	7128	7351	7577	7807	8040	8276	8516	8760
37	7326	7555	7788	8024	8263	8506	8753	9004
38	7524	7759	7998	8240	8486	8736	8989	9247
39	7722	7964	8209	8457	8710	8966	9226	9490
40	7920	8168	8419	8674	8933	9196	9462	9734

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