

# Nuclear Data Libraries from Los Alamos National Laboratory

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## Installing ACE Libraries

In order to use the libraries we provide on this site, the data needs to be installed where your code (e.g., MCNP) can see it.

## File/Directory Hierarchy

Each ACE library that can be downloaded from this site has the same file/directory hierarchy when decompressed. As an example, let's look at the hierarchy for the Lib80x (index.html) library.

- `Lib80x/` There will be some data directory that contains all the data files. This is required, but the directory name will be different for each library.
- `xsdır` A file containing all the entries for the XSDIR file. This is required.
- `xsdır_2.0` A file containing all the ACE 2.0 entries for the XSDIR file. *This may not be included.*
- `docs/` A directory with documentation about the library. This exists for every production library, but probably won't exist for beta libraries.

## Install Location

To enable your code to use the library that has been downloaded, you must put it in a location that can be seen by your code. MCNP looks for data located in a directory pointed to by the `$DATAPATH` variable. This directory contains a file called `xsdır_mcn<ver>` where `<ver>` is some version number like 6.1.1 or 6.2, etc. The `xsdır` file (as we'll call it) tells MCNP what data is available and what files should be read to access the data. (For more information about the `DATAPATH` variable and where MCNP looks for the data, look at the MCNP documentation (<https://mcnp.lanl.gov>).

## Install Instructions

1. Decompress the tarball downloaded from this site.

```
tar -xzf <Lib80x.tgz>
```

2. Copy/move the data directory to location pointed to by the `$DATAPATH` variable

```
mv Lib80x/Lib80x $DATAPATH/
```

3. Add entries to the `xmdir_mcn<ver>` file for the new data. These entries should be included after the line in the `xmdir_mcn<ver>` file that is simply:

```
directory
```

This line will be several hundred lines down from the top of the file. See the section XSDIR File Structure below for more information about the structure of the `xmdir` file.

**Note:** The order in which the entries appear in the `xmdir` file is important; the entries that appear first have precedence over those that come later. If someone specifies 92235 on their MCNP Material Card, the first entry in the `xmdir` file that begins with 92235 will be used. If you want the new data to take precedence over the old data, add the entries before the existing ones. If you want your existing data to take precedence, add the new entries after the existing ones.

## XSDIR File Structure

For a complete description of the `xmdir` file, please consult the MCNP6 manual ([https://laws.lanl.gov/vhosts/mcnp.lanl.gov/pdf\\_files/la-ur-17-29981.pdf](https://laws.lanl.gov/vhosts/mcnp.lanl.gov/pdf_files/la-ur-17-29981.pdf)).

The `xmdir` file is broken into two main parts.

1. Atomic Weight Ratios

This begins with the line:

```
atomic weight ratios
```

After this line is a list of ZAs and the associated atomic weight ratio for every possible ZA that may be used in your code. An example such is given below.

2. Directory.

After the listing of Atomic Weight Ratios, a line containing a date (presumably when the file was last modified) followed by the line:

```
directory
```

After this `directory` line, all the entries are given. These entries tell your code how to access the available data.

## Example listing of Atomic Weight Ratios

0001	1.000000	0001	1.000000				
1000	0.99931697	1001	0.99916733	1002	1.99679968	1003	2.99013997
		1004	3.99320563	1005	4.99205575	1006	5.99301364
		1007	6.99216250				
2000	3.96821760	2003	2.99012018	2004	3.96821897	2005	4.96916622
		2006	5.96718398	2007	6.96764655	2008	7.96490665
		2009	8.96625841	2010	9.96604391		
3000	6.88131188	3003	3.00473919	3004	3.99259010	3005	4.96947769
		3006	5.96345000	3007	6.95573370	3008	7.95357035
		3009	8.94924505	3010	9.94927166	3011	10.94892619
		3012	11.95023224				
4000	8.93476310	4005	4.99748719	4006	5.96801398	4007	6.95665103
		4008	7.93653569	4009	8.93476323	4010	9.92751276
		4011	10.92697642	4012	11.92360372	4013	12.92371015
		4014	13.92225773	4015	14.92414355	4016	15.92394040
5000	10.7181562	5006	5.99486500	5007	6.96952753	5008	7.95567201
		5009	8.93589996	5010	9.92692106	5011	10.91473019
		5012	11.91114305	5013	12.90595124	5014	13.90491906
		5015	14.90197863	5016	15.90201917	5017	16.90054808
		5018	17.90105883	5019	18.89996341		
6000	11.9078563	6008	7.96862754	6009	8.95345575	6010	9.93080365
		6011	10.91684011	6012	11.89691424	6013	12.89164978
		6014	13.88294742	6015	14.88165100	6016	15.87712728
		6017	16.87635393	6018	17.87190084	6019	18.87128691
		6020	19.86816379	6021	20.86851607	6022	21.86771807
7000	13.8863986	7010	9.95539105	7011	10.93137154	7012	11.91536754
		7013	12.89401307	7014	13.88278088	7015	14.87125076
		7016	15.86860156	7017	16.86233951	7018	17.85932937
		7019	18.85366329	7020	19.85135548	7021	20.84647529
		7022	21.84510891	7023	22.84328486	7024	23.84443002
		7025	24.84537690				
8000	15.8618629	8012	11.93102358	8013	12.91292282	8014	13.88825568
		8015	14.87418208	8016	15.85751063	8017	16.85310100
		8018	17.84453957	8019	18.84033026	8020	19.83223212
		8021	20.82818145	8022	21.82089077	8023	22.81797186
		8024	23.81412553	8025	24.81444493	8026	25.81465816
		8027	26.81590246	8028	27.81677995		
9000	18.8351977	9014	13.91449210	9015	14.88899720	9016	15.87391955
		9017	16.85603908	9018	17.84630126	9019	18.83519782
		9020	19.82817188	9021	20.81954931	9022	21.81398249
		9023	22.80596288	9024	23.80187425	9025	24.79723579
		9026	25.79609457	9027	26.79458725	9028	27.79483014
		9029	28.79376446	9030	29.79433460	9031	30.79360501
10000	20.0066900	10016	15.88809228	10017	16.87148154	10018	17.85103054
		10019	18.83864498	10020	19.82069552	10021	20.81349946
		10022	21.80246856	10023	22.79693340	10024	23.78749415
		10025	24.78299433	10026	25.77710477	10027	26.77558174
		10028	27.77143444	10029	28.77009548	10030	29.76687359
		10031	30.76652069	10032	31.76478085	10033	32.76546996
		10034	33.76446178				
11000	22.7922764	11018	17.87111727	11019	18.85053917	11020	19.83547858
		11021	20.81727527	11022	21.80549366	11023	22.79227613
		11024	23.78486890	11025	24.77527827	11026	25.76934381

		11027	26.76218471	11028	27.75841368	11029	28.75371250
		11030	29.75118449	11031	30.74716387	11032	31.74539538
		11033	32.74300438	11034	33.74279155	11035	34.74146117
		11036	35.74178048	11037	36.74098248		
12000	24.0962596	12019	18.87194618	12020	19.84689091	12021	20.83121221
		12022	21.81058694	12023	22.79659311	12024	23.77899868
		12025	24.77119659	12026	25.75938999	12027	26.75253215
		12028	27.74348189	12029	28.73957401	12030	29.73280178
		12031	30.73027079	12032	31.72408845	12033	32.72172303
		12034	33.71729887	12035	34.71652424	12036	35.71354514
		12037	36.71328250	12038	37.71080902	12039	38.71134149
		12040	39.70984752				
13000	26.7497539	13021	20.84739904	13022	21.83036175	13023	22.80962396
		13024	23.79376787	13025	24.77574832	13026	25.76365182
		13027	26.74975426	13028	27.74153227	13029	28.73148911
		13030	29.72539224	13031	30.71777965	13032	31.71333115
		13033	32.70743616	13034	33.70480256	13035	34.69919464
		13036	35.69689660	13037	36.69273833	13038	37.69064476
		13039	38.68774396	13040	39.68756063	13041	40.68579105
		13042	41.68568703				
14000	27.8442403	14022	21.84524281	14023	22.82771973	14024	23.80527491
		14025	24.78930831	14026	25.76904333	14027	26.75487616
		14028	27.73659131	14029	28.72757270	14030	29.71628110
		14031	30.70926999	14032	31.69947480	14033	32.69470337
		14034	33.68668325	14035	34.68404921	14036	35.67745732
		14037	36.67514900	14038	37.66923287	14039	38.66702351
		14040	39.66219950	14041	40.66222524	14042	41.65881984
		14043	42.65902316	14044	43.65697598		
15000	30.7076818	15024	23.82788340	15025	24.80532396	15026	25.78832633
		15027	26.76729389	15028	27.75184734	15029	28.73283303
		15030	29.72078569	15031	30.70768215	15032	31.69923606
		15033	32.68848260	15034	33.68178642	15035	34.67287656
		15036	35.66918916	15037	36.66193636	15038	37.65785469
		15039	38.65126948	15040	39.64775252	15041	40.64217442
		15042	41.64019910	15043	42.63674619	15044	43.63489729
		15045	44.63248329	15046	45.63198271		
16000	31.7889394	16026	25.80428802	16027	26.78672826	16028	27.76380176
		16029	28.74751327	16030	29.72731854	16031	30.71342548
		16032	31.69741556	16033	32.68821810	16034	33.67606662
		16035	34.66863139	16036	35.65810627	16037	36.65352585
		16038	37.64497280	16039	38.64031920	16040	39.63204341
		16041	40.62754787	16042	41.62038529	16043	42.61787450
		16044	43.61231634	16045	44.60996651	16046	45.60558148
		16047	46.60476365	16048	47.60170524	16049	48.60248258
17000	35.1481816	17028	27.78773165	17029	28.76486487	17030	29.74701462
		17031	30.72617338	17032	31.71091747	17033	32.69415975
		17034	33.68191189	17035	34.66845345	17036	35.65932196
		17037	36.64834775	17038	37.64184699	17039	38.63325427
		17040	39.62705042	17041	40.61872668	17042	41.61268440
		17043	42.60488665	17044	43.60048653	17045	44.59388463
		17046	45.58918361	17047	46.58505443	17048	47.58265034
		17049	48.57938373	17050	49.57824865	17051	50.57625105
18000	39.6044909	18030	29.76366039	18031	30.74571398	18032	31.72276292
		18033	32.70652641	18034	33.68836441	18035	34.67480334

		18036	35.65856663	18037	36.64921397	18038	37.63661430
		18039	38.62959108	18040	39.61908707	18041	40.61259589
		18042	41.60256303	18043	42.59654062	18044	43.58724423
		18045	44.58174291	18046	45.57320614	18047	46.56867316
		18048	47.56241568	18049	48.55975382	18050	49.55503976
		18051	50.55358742	18052	51.55010270	18053	52.54960213
19000	38.7624279	19032	31.74683634	19033	32.72371179	19034	33.70634734
		19035	34.68744590	19036	35.67219567	19037	36.65575684
		19038	37.64290855	19039	38.62898974	19040	39.62068855
		19041	40.60994402	19042	41.60192563	19043	42.59166237
		19044	43.58390593	19045	44.57446551	19046	45.56714142
		19047	46.55825512	19048	47.55346675	19049	48.54679702
		19050	49.54349316	19051	50.53846843	19052	51.53605443
		19053	52.53193521	19054	53.53036391	19055	54.52723609
20000	39.7337331	20034	33.72192238	20035	34.70423076	20036	35.68388917
		20037	36.66814389	20038	37.65008365	20039	38.63594254
		20040	39.61929315	20041	40.61039243	20042	41.59817335
		20043	42.58973020	20044	43.57788307	20045	44.56999135
		20046	45.55892831	20047	46.55118392	20048	47.54059889
		20049	48.53512141	20050	49.52835990	20051	50.52371548
		20052	51.51869485	20053	52.51501185	20054	53.51068443
		20055	54.50824069	20056	55.50462708	20057	56.50276431
21000	44.5697171	21036	35.70553455	21037	36.68517604	21038	37.66830729
		21039	38.64989194	21040	39.63453748	21041	40.61730559
		21042	41.60501250	21043	42.59209375	21044	43.58177038
		21045	44.56971905	21046	45.56039491	21047	46.54906379
		21048	47.54029878	21049	48.52951978	21050	49.52307442
		21051	50.51588746	21052	51.51034269	21053	52.50466153
		21054	53.49969422	21055	54.49604035	21056	55.49203618
		21057	56.48832344	21058	57.48560210	21059	58.48247429
		21060	59.48031806				
22000	47.4671267	22038	37.68324783	22039	38.66656745	22040	39.64696126
		22041	40.63108011	22042	41.61246242	22043	42.59940227
		22044	43.58205523	22045	44.57191374	22046	45.55787639
		22047	46.54842491	22048	47.53605041	22049	48.52738429
		22050	49.51574147	22051	50.50895908	22052	51.50064853
		22053	52.49486360	22054	53.48758697	22055	54.48317295
		22056	55.47749185	22057	56.47464113	22058	57.46900591
		22059	58.46632423	22060	59.46153085	22061	60.45932504
		22062	61.45498771	22063	62.45326770		
23000	50.5038596	23040	39.66737553	23041	40.64757221	23042	41.63050518
		23043	42.61142559	23044	43.59635129	23045	44.57949821
		23046	45.56538030	23047	46.55154374	23048	47.54032083
		23049	48.52802485	23050	49.51808842	23051	50.50632644
		23052	51.49854493	23053	52.48952070	23054	53.48301404
		23055	54.47521059	23056	55.46988905	23057	56.46331159
		23058	57.45895711	23059	58.45371093	23060	59.44989850
		23061	60.44473149	23062	61.44139549	23063	62.43654262
		23064	63.43382128	23065	64.42964258		
24000	51.5494654	24042	41.64557461	24043	42.62833903	24044	43.60769202
		24045	44.59324330	24046	45.57346837	24047	46.55946619
		24048	47.54208357	24049	48.53082025	24050	49.51698371
		24051	50.50712743	24052	51.49431358	24053	52.48586380
		24054	53.47551952	24055	54.46887149	24056	55.46009608

		24057	56.45444005	24058	57.44658332	24059	58.44218972
		24060	59.43507611	24061	60.43108693	24062	61.42437615
		24063	62.42098740	24064	63.41492502	24065	64.41203514
		24066	65.40663700	24067	66.40416352		
25000	54.4661050	25044	43.62882987	25045	44.60798556	25046	45.59167200
		25047	46.57255275	25048	47.55644739	25049	48.53903139
		25050	49.52510735	25051	50.51054120	25052	51.49932813
		25053	52.48649903	25054	53.47698528	25055	54.46610097
		25056	55.45836287	25057	56.44915818	25058	57.44224930
		25059	58.43411357	25060	59.42797287	25061	60.42110882
		25062	61.41626149	25063	62.40946722	25064	63.40485140
		25065	64.39832996	25066	65.39444266	25067	66.38888590
		25068	67.38541109	25069	68.38033020		
26000	55.3670672	26045	44.62788117	26046	45.60564096	26047	46.58919852
		26048	47.56832844	26049	48.55290318	26050	49.53378293
		26051	50.51907600	26052	51.50185464	26053	52.49048234
		26054	53.47624336	26055	54.46634705	26056	55.45442952
		26057	56.44629161	26058	57.43560092	26059	58.42859660
		26060	59.41920924	26061	60.41326939	26062	61.40470088
		26063	62.39968111	26064	63.39191566	26065	64.38746828
		26066	65.38026614	26067	66.37580647	26068	67.36994510
		26069	68.36639098	26070	69.36045748	26071	70.35708181
		26072	71.35136642				
27000	58.4269353	27047	46.60763874	27048	47.58940184	27049	48.56887479
		27050	49.55217458	27051	50.53285705	27052	51.51719782
		27053	52.49931674	27054	53.48501647	27055	54.47002089
		27056	55.45928921	27057	56.44718130	27058	57.43805689
		27059	58.42693062	27060	59.41895680	27061	60.40903655
		27062	61.40200734	27063	62.39298168	27064	63.38657061
		27065	64.37864294	27066	65.37330780	27067	66.36583516
		27068	67.36119399	27069	68.35403802	27070	69.35008734
		27071	70.34338053	27072	71.33965788	27073	72.33347652
		27074	73.32998189	27075	74.32431606	27458	57.43805689
		1027058	57.43805689				
28000	58.1891568	28048	47.60723730	28049	48.58864350	28050	49.56644097
		28051	50.54971101	28052	51.52918396	28053	52.51344542
		28054	53.49438119	28055	54.47927195	28056	55.46156226
		28057	56.45065337	28058	57.43765051	28059	58.42807238
		28060	59.41595215	28061	60.40762902	28062	61.39635091
		28063	62.38907331	28064	63.37879405	28065	64.37230372
		28066	65.36277638	28067	66.35659511	28068	67.34830143
		28069	68.34342029	28070	69.33571190	28071	70.33132131
		28072	71.32407558	28073	72.31982481	28074	73.31282059
		28075	74.30898887	28076	75.30283726	28077	76.29942194
		28078	77.29343886				
29000	62.9997558	29052	51.55049927	29053	52.53037869	29054	53.51302415
		29055	54.49386525	29056	55.47784911	29057	56.45999002
		29058	57.44676710	29059	58.43317945	29060	59.42247430
		29061	60.41001017	29062	61.40055313	29063	62.38900203
		29064	63.38057683	29065	64.37002861	29066	65.36250819
		29067	66.35278899	29068	67.34606293	29069	68.33729239
		29070	69.33163953	29071	70.32333109	29072	71.31785708
		29073	72.31011424	29074	73.30469585	29075	74.29811311
		29076	75.29286866	29077	76.28683104	29078	77.28231525

		29079	78.27630243	29080	79.27396775		
30000	64.8345785	30054	53.52912465	30055	54.51164122	30056	55.49155039
		30057	56.47543313	30058	57.45673380	30059	58.44286130
		30060	59.42689797	30061	60.41601099	30062	61.40228415
		30063	62.39258507	30064	63.37996021	30065	64.37146764
		30066	65.35969715	30067	66.35219120	30068	67.34133714
		30069	68.33443813	30070	69.32462722	30071	70.31841843
		30072	71.30897172	30073	72.30327730	30074	73.29436908
		30075	74.28922685	30076	75.28099013	30077	76.27603356
		30078	77.26891161	30079	78.26449673	30080	79.25758208
		30081	80.25507652	30082	81.25039220	30083	82.24835493
31000	69.1241164	31056	55.51388685	31057	56.49341928	31058	57.47622337
		31059	58.45684635	31060	59.44200008	31061	60.42586129
		31062	61.41204504	31063	62.39861545	31064	63.38759062
		31065	64.37493140	31066	65.36520502	31067	66.35325633
		31068	67.34444613	31069	68.33346983	31070	69.32532388
		31071	70.31542412	31072	71.30848426	31073	72.29871243
		31074	73.29187782	31075	74.28284565	31076	75.27656255
		31077	76.26829594	31078	77.26213826	31079	78.25482182
		31080	79.24982274	31081	80.24245822	31082	81.23906039
		31083	82.23442563	31084	83.23145644	31085	84.22717859
		31086	85.22465554				
32000	71.9677766	32058	57.49283939	32059	58.47506846	32060	59.45501728
		32061	60.44008178	32062	61.42242982	32063	62.40887238
		32064	63.39236351	32065	64.38157548	32066	65.36744009
		32067	66.35774976	32068	67.34455931	32069	68.33584024
		32070	69.32356454	32071	70.31567158	32072	71.30423066
		32073	72.29701143	32074	73.28615937	32075	74.27923563
		32076	75.26920127	32077	76.26273839	32078	77.25345803
		32079	78.24739392	32080	79.23877508	32081	80.23360306
		32082	81.22573557	32083	82.22217181	32084	83.21640685
		32085	84.21332860	32086	85.20816840	32087	86.20554621
		32088	87.20131793	32089	88.19958800		
33000	74.2779834	33060	59.47776022	33061	60.45676721	33062	61.44082047
		33063	62.42280168	33064	63.40814576	33065	64.39161607
		33066	65.37821329	33067	66.36414633	33068	67.35315962
		33069	68.34011236	33070	69.33018462	33071	70.31781449
		33072	71.30886696	33073	72.29737419	33074	73.28888666
		33075	74.27798401	33076	75.27018422	33077	76.25986201
		33078	77.25244139	33079	78.24297911	33080	79.23596089
		33081	80.22697233	33082	81.22073326	33083	82.21261465
		33084	83.20806711	33085	84.20241318	33086	85.19826422
		33087	86.19304453	33088	87.18945076	33089	88.18527205
		33090	89.18273908	33091	90.17903625	33092	91.17676105
34000	78.2812872	34065	64.40658239	34066	65.38862309	34067	66.37495659
		34068	67.35814535	34069	68.34733393	34070	69.33262925
		34071	70.32289982	34072	71.30922394	34073	72.30028943
		34074	73.28744688	34075	74.27890293	34076	75.26703111
		34077	76.25913506	34078	77.24796201	34079	78.24055131
		34080	79.23000000	34081	80.22286808	34082	81.21299564
		34083	82.20680345	34084	83.19756249	34085	84.19272221
		34086	85.18614085	34087	86.18176364	34088	87.17605086
		34089	88.17244321	34090	89.16733258	34091	90.16469055
		34092	91.16002606	34093	92.15775085	34094	93.15332429

35000	79.2171183	35067	66.38953031	35068	67.37471973	35069	68.35779150
		35070	69.34393267	35071	70.32934218	35072	71.31867427
		35073	72.30517329	35074	73.29479779	35075	74.28212783
		35076	75.27231322	35077	76.26058752	35078	77.25176567
		35079	78.24039069	35080	79.23199077	35081	80.22118079
		35082	81.21309946	35083	82.20289923	35084	83.19559614
		35085	84.18614257	35086	85.18071387	35087	86.17402070
		35088	87.16875600	35089	88.16246500	35090	89.15808048
		35091	90.15280166	35092	91.14945635	35093	92.14462459
		35094	93.14161575	35095	94.13717927	35096	95.13420017
		35097	96.12984301				
36000	83.0801410	36069	68.37273600	36070	69.35430975	36071	70.34013440
		36072	71.32407494	36073	72.31270569	36074	73.29796369
		36075	74.28725296	36076	75.27367007	36077	76.26385016
		36078	77.25099145	36079	78.24212104	36080	79.22985891
		36081	80.22147965	36082	81.20980746	36083	82.20186387
		36084	83.19066657	36085	84.18308797	36086	85.17259735
		36087	86.16672743	36088	87.15921967	36089	88.15378546
		36090	89.14706475	36091	90.14236918	36092	91.13646641
		36093	92.13295011	36094	93.12741876	36095	94.12426121
		36096	95.11887298	36097	96.11572534	36098	97.11045608
		36099	98.10750672	36100	99.10242583		
37000	84.7335543	37071	70.35569384	37072	71.34091697	37073	72.32388067
		37074	73.30904803	37075	74.29481172	37076	75.28275351
		37077	76.26953887	37078	77.25870087	37079	78.24599451
		37080	79.23594645	37081	80.22386290	37082	81.21449187
		37083	82.20282911	37084	83.19351998	37085	84.18235671
		37086	85.17314926	37087	86.16258895	37088	87.15611519
		37089	88.14847887	37090	89.14239039	37091	90.13552027
		37092	91.13009431	37093	92.12379694	37094	93.11953205
		37095	94.11381462	37096	95.11015119	37097	96.10461354
		37098	97.10042368	37099	98.09539099	37100	99.09125265
		37101	100.08596003	37102	101.08299437		
38000	86.8639767	38073	72.33915730	38074	73.32098980	38075	74.30609353
		38076	75.28939056	38077	76.27701091	38078	77.26270517
		38079	78.25166393	38080	79.23793102	38081	80.22804262
		38082	81.21468325	38083	82.20525509	38084	83.19256868
		38085	84.18348996	38086	85.17125843	38087	86.16228816
		38088	87.15046073	38089	88.14369300	38090	89.13538727
		38091	90.12924082	38092	91.12147793	38093	92.11584956
		38094	93.10858328	38095	94.10395592	38096	95.09768339
		38097	96.09351075	38098	97.08720052	38099	98.08335690
		38100	99.07685927	38101	100.07339039	38102	101.06727953
		38103	102.06456911	38104	103.05932959	38105	104.05693542
39000	88.1421034	39076	75.30593046	39077	76.28861062	39078	77.27403698
		39079	78.25924190	39080	79.24760617	39081	80.23390742
		39082	81.22300198	39083	82.21001142	39084	83.19947185
		39085	84.18696012	39086	85.17683547	39087	86.16426959
		39088	87.15431634	39089	88.14210439	39090	89.13480630
		39091	90.12636741	39092	91.11940716	39093	92.11144481
		39094	93.10484957	39095	94.09747394	39096	95.09192780
		39097	96.08556071	39098	97.08100430	39099	98.07482610
		39100	99.06932920	39101	100.06327401	39102	101.05789753
		39103	102.05245408	39104	103.04814649	39105	104.04334320



		39106	105.03963045	39107	106.03535260	39108	107.03205625
40000	90.4399916	40078	77.28555716	40079	78.27094882	40080	79.25367360
		40081	80.24192055	40082	81.22725964	40083	82.21625686
		40084	83.20230900	40085	84.19195499	40086	85.17840985
		40087	86.16817627	40088	87.15503586	40089	88.14511947
		40090	89.13237985	40091	90.12472264	40092	91.11553244
		40093	92.10836479	40094	93.09961487	40095	94.09273696
		40096	95.08437529	40097	96.07844151	40098	97.07161751
		40099	98.06677179	40100	99.05942036	40101	100.05417938
		40102	101.04741396	40103	102.04241072	40104	103.03598190
		40105	104.03162474	40106	105.02586969	40107	106.02207763
		40108	107.01666958	40109	108.01331374	40110	109.00832207
41000	92.1082665	41081	80.25363898	41082	81.23919918	41083	82.22423928
		41084	83.21254035	41085	84.19834092	41086	85.18690101
		41087	86.17367349	41088	87.16307149	41089	88.14960931
		41090	89.13888393	41091	90.12606151	41092	91.11766698
		41093	92.10826768	41094	93.10057525	41095	94.09154052
		41096	95.08420403	41097	96.07561148	41098	97.06923170
		41099	98.06192010	41100	99.05587084	41101	100.04834158
		41102	101.04251275	41103	102.03501900	41104	103.02972085
		41105	104.02258957	41106	105.01799790	41107	106.01172732
		41108	107.00762792	41109	108.00180347	41110	108.99798167
		41111	109.99257362	41112	110.98911864	41113	111.98436491
42000	95.1071951	42083	82.23617051	42084	83.21900434	42085	84.20690427
		42086	85.19250998	42087	86.18057905	42088	87.16666146
		42089	88.15561900	42090	89.14153302	42091	90.13077463
		42092	91.11728737	42093	92.10869850	42094	93.09839849
		42095	94.09055539	42096	95.08081225	42097	96.07355223
		42098	97.06435372	42099	98.05804715	42100	99.04922415
		42101	100.04347869	42102	101.03483899	42103	102.02913330
		42104	103.02109452	42105	104.01568744	42106	105.00824917
		42107	106.00318395	42108	106.99633874	42109	107.99206783
		42110	108.98538086	42111	109.98143017	42112	110.97524882
		42113	111.97165504	42114	112.96607845	42115	113.96281184
43000	96.0740000	43085	84.21907878	43086	85.20458941	43087	86.18970348
		43088	87.17729409	43089	88.16323995	43090	89.15107005
		43091	90.13739471	43092	91.12566397	43093	92.11210535
		43094	93.10292798	43095	94.09235476	43096	95.08397674
		43097	96.07389317	43098	97.06614599	43099	98.05660255
		43100	99.04940305	43101	100.04047240	43102	101.03376595
		43103	102.02514209	43104	103.01879825	43105	104.01041905
		43106	105.00450276	43107	105.99662772	43108	106.99138985
		43109	107.98430774	43110	108.97952211	43111	109.97278789
		43112	110.96762140	43113	111.96145344	43114	112.95711611
		43115	113.95131149	43116	114.94736080	43117	115.94185361
		43118	116.93822018				
44000	100.201505	44087	86.20224481	44088	87.18481096	44089	88.17210613
		44090	89.15734908	44091	90.14519151	44092	91.13048205
		44093	92.11884996	44094	93.10461606	44095	94.09508693
		44096	95.08370554	44097	96.07507229	44098	97.06423373
		44099	98.05628981	44100	99.04599428	44101	100.03875471
		44102	101.02894204	44103	102.02230913	44104	103.01283516
		44105	104.00654492	44106	104.99753464	44107	105.99149769
		44108	106.98317328	44109	107.97758654	44110	108.96992086

		44111	109.96485976	44112	110.95752737	44113	111.95242883
		44114	112.94561675	44115	113.94139360	44116	114.93490870
		44117	115.93104724	44118	116.92467752	44119	117.92106392
		44120	118.91492222				
45000	102.021496	45089	88.18472380	45090	89.17021758	45091	90.15536139
		45092	91.14224017	45093	92.12746329	45094	93.11486554
		45095	94.10052561	45096	95.09050938	45097	96.07882190
		45098	97.06960818	45099	98.05846378	45100	99.04986283
		45101	100.03933125	45102	101.03141450	45103	102.02149662
		45104	103.01404748	45105	104.00450356	45106	104.99749271
		45107	105.98836814	45108	106.98174025	45109	107.97315896
		45110	108.96694700	45111	109.95880216	45112	110.95299580
		45113	111.94553202	45114	112.94018878	45115	113.93311317
		45116	114.92821867	45117	115.54464000	45118	116.91699410
		45119	117.91042609	45120	118.90609867	45121	119.89979835
		45122	120.89565930				
46000	105.501169	46091	90.16781349	46092	91.15060766	46093	92.13754593
		46094	93.12187678	46095	94.10924135	46096	95.09418129
		46097	96.08392000	46098	97.07160364	46099	98.06206827
		46100	99.05024387	46101	100.04143861	46102	101.03019046
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		46106	104.99372394	46107	105.98676707	46108	106.97694548
		46109	107.97039607	46110	108.96101524	46111	109.95492061
		46112	110.94597652	46113	111.94020050	46114	112.93181795
		46115	113.92652013	46116	114.91840041	46117	115.91346097
		46118	116.90600363	46119	117.52551000	46120	118.89448122
		46121	119.89003297	46122	120.88310805	46123	121.87885995
		46124	122.87220272				
47000	106.941511	47093	92.15129678	47094	93.13576643	47095	94.11993866
		47096	95.10658942	47097	96.09134897	47098	97.08037295
		47099	98.06784754	47100	99.05777696	47101	100.04591283
		47102	101.03621471	47103	102.02493525	47104	103.01600416
		47105	104.00533123	47106	104.99687980	47107	105.98673073
		47108	106.97899161	47109	107.96920820	47110	108.96196102
		47111	109.95256148	47112	110.94566993	47113	111.93664498
		47114	112.93027241	47115	113.92164128	47116	114.91562572
		47117	115.90735708	47118	116.90163991	47119	117.89412242
		47120	118.88862744	47121	119.88108852	47122	120.87614836
		47123	121.86891611	47124	122.86403350	47125	123.85721765
		47126	124.85266220	47127	125.84632222	47128	126.84209394
		47129	127.83600182	47130	128.83411128	47510	108.96196102
		1047110	108.96196102				
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		48098	97.08615222	48099	98.07519668	48100	99.06192628
		48101	100.05174163	48102	101.03896811	48103	102.02934358
		48104	103.01721400	48105	104.00824522	48106	104.99667209
		48107	105.98823877	48108	106.97723496	48109	107.96943623
		48110	108.95888253	48111	109.95145799	48112	110.94145941
		48113	111.93449866	48114	112.92487402	48115	113.91833817
		48116	114.90907833	48117	115.90292950	48118	116.89403754
		48119	117.88842830	48120	118.87976697	48121	119.87427685
		48122	120.86603839	48123	121.86108695	48124	122.85313555
		48125	123.84811291	48126	124.84061987	48127	125.83608479
		48128	126.82880141	48129	127.82456095	48130	128.81770736

		48131	129.81582680	48132	130.81207440	48515	113.91833817
		1048115	113.91833817				
49000	113.831545	49097	96.11669692	49098	97.10077001	49099	98.08432757
		49100	99.07265465	49101	100.05933430	49102	101.04851338
		49103	102.03578273	49104	103.02558813	49105	104.01340614
		49106	105.00361791	49107	105.99188435	49108	106.98270208
		49109	107.97158581	49110	108.96300997	49111	109.95237521
		49112	110.94421010	49113	111.93415772	49114	112.92641600
		49115	113.91679902	49116	114.90957789	49117	115.90024768
		49118	116.89348219	49119	117.88438707	49120	118.49060900
		49121	119.86918940	49122	120.86300823	49123	121.85457862
		49124	122.84870158	49125	118.49060900	49126	124.83478100
		49127	125.82707211	49128	126.82127665	49129	127.81419773
		49130	128.80885220	49131	129.80212727	49132	130.79962255
		49133	131.79581041	49134	132.79350546	49135	133.79005049
50000	117.691126	50099	98.09930776	50100	99.08051999	50101	100.06897080
		50102	101.05466517	50103	102.04389822	50104	103.03039354
		50105	104.02002469	50106	105.00700378	50107	105.99718763
		50108	106.98491015	50109	107.97568302	50110	108.96368167
		50111	109.95498379	50112	110.94350211	50113	111.93526097
		50114	112.92429933	50115	113.91626754	50116	114.90608895
		50117	115.89869919	50118	116.88877181	50119	117.88187115
		50120	118.87217728	50121	119.86561007	50122	120.85623000
		50123	121.84990171	50124	122.84086817	50125	123.83476631
		50126	124.82604611	50127	125.82013912	50128	126.81172372
		50129	127.80605034	50130	128.79794396	50131	129.79235991
		50132	130.78457836	50133	131.78194976	50134	132.77778346
		50135	133.77557591	50136	134.77155582	50137	135.76955822
		50998	228.025301	50999	228.025301		
51000	120.710837	51103	102.05538866	51104	103.04360782	51105	104.03007452
		51106	105.01881184	51107	106.00562023	51108	106.99505685
		51109	107.98247339	51110	108.97251534	51111	109.96036570
		51112	110.95101680	51113	111.93942598	51114	112.93073371
		51115	113.91949517	51116	114.91109864	51117	115.90056729
		51118	116.89266365	51119	117.88250008	51120	118.87503031
		51121	119.86519388	51122	120.85794970	51123	121.84840778
		51124	122.84152429	51125	123.83225774	51126	124.82564379
		51127	125.81673223	51128	126.81036785	51129	127.80175699
		51130	128.79565284	51131	129.78738552	51132	130.78125831
		51133	131.77344583	51134	132.76993941	51135	133.76609384
		51136	134.76264305	51137	135.75896996	51138	136.75581241
		51139	137.75236734				
52000	126.492160	52105	104.04212376	52106	105.02745023	52107	106.01638297
		52108	107.00227887	52109	107.99167674	52110	108.97812108
		52111	109.96824511	52112	110.95559281	52113	111.94588930
		52114	112.93352948	52115	113.92475361	52116	114.91275070
		52117	115.90434335	52118	116.89295993	52119	117.88494057
		52120	118.87398714	52121	119.86630499	52122	120.85583824
		52123	121.84846336	52124	122.83843322	52125	123.83144172
		52126	124.82174182	52127	125.81504953	52128	126.80570233
		52129	127.79922869	52130	128.79026758	52131	129.78395681
		52132	130.77539538	52133	131.76918641	52134	132.76100581
		52135	133.75745154	52136	134.75248234	52137	135.74906871
		52138	136.74434180	52139	137.74121399	52140	138.73670811

		52141	139.73386781	52142	140.72966927		
		52527	125.81504953	1052127	125.81504953		
		52529	127.79922869	1052129	127.79922869		
53000	125.814297	53108	107.01618874	53109	108.00231843	53110	108.99084551
		53111	109.97733169	53112	110.96645502	53113	111.95357231
		53114	112.94320663	53115	113.93084681	53116	114.92102761
		53117	115.90930563	53118	116.90014410	53119	117.88857939
		53120	118.87996331	53121	119.86871450	53122	120.86034458
		53123	121.84977097	53124	122.84179604	53125	123.83163944
		53126	124.82403441	53127	125.81430235	53128	126.80703715
		53129	127.79763201	53130	128.79071357	53131	129.78157817
		53132	130.77484437	53133	131.76605517	53134	132.75939549
		53135	133.75110606	53136	134.74708188	53137	135.74168062
		53138	136.73753041	53139	137.73265761	53140	138.72892555
		53141	139.72433045	53142	140.72084573	53143	141.71659762
		53144	142.71339050				
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		54113	111.96318957	54114	112.94928427	54115	113.93902190
		54116	114.92575907	54117	115.91595674	54118	116.90322209
		54119	117.89387024	54120	118.88168447	54121	119.87277434
		54122	120.86111624	54123	121.85263906	54124	122.84148191
		54125	123.83338958	54126	124.82269550	54127	125.81500729
		54128	126.80477855	54129	127.79742551	54130	128.78757453
		54131	129.78054488	54132	130.77103347	54133	131.76418516
		54134	132.75508286	54135	133.74830966	54136	134.73971056
		54137	135.73542609	54138	136.72920741	54139	137.72541383
		54140	138.71964689	54141	139.71602050	54142	140.71046526
		54143	141.70722880	54144	142.70200912	54145	143.69893087
		54146	144.69398878	54147	145.69115839		
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		55115	113.94855537	55116	114.93744373	55117	115.92419730
		55118	116.91351375	55119	117.90077701	55120	118.89050108
		55121	119.87849218	55122	120.86879551	55123	121.85711441
		55124	122.84779203	55125	123.83669375	55126	124.82782935
		55127	125.81722190	55128	126.80895991	55129	127.79869946
		55130	128.79074758	55131	129.78092316	55132	130.77329468
		55133	131.76373031	55134	132.75639549	55135	133.74706992
		55136	134.73980254	55137	135.73099187	55138	136.72629488
		55139	137.72003153	55140	138.71532574	55141	139.70947492
		55142	140.70510108	55143	141.69953720	55144	142.69563129
		55145	143.69046044	55146	144.68659229	55147	145.68183419
		55148	146.67826336	55149	147.67335284	55150	148.66995735
		55151	149.66535233	55527	125.81722190	55529	127.79869946
56000	136.147201	56114	112.97178441	56115	113.95991692	56116	114.94538790
		56117	115.93394117	56118	116.91993858	56119	117.90898821
		56120	118.89582269	56121	119.88525883	56122	120.87255351
		56123	121.86284971	56124	122.85060348	56125	123.84139764
		56126	124.82961211	56127	125.82086659	56128	126.80952386
		56129	127.80129201	56130	128.79036317	56131	129.78238766
		56132	130.77193350	56133	131.76428110	56134	132.75420439
		56135	133.74678398	56136	134.73709041	56137	135.72974062
		56138	136.72057497	56139	137.71554772	56140	138.70870526
		56141	139.70388859	56142	140.69732296	56143	141.69286994
		56144	142.68658561	56145	143.68262916	56146	144.67660895

		56147	145.67270330	56148	146.66686403	56149	147.66309175
		56150	148.65757464	56151	149.65407009	56152	150.64890989
		56153	151.64561354				
57000	137.712181	57117	115.94541079	57118	116.93351098	57119	117.91922981
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		57123	121.87024460	57124	122.86000270	57125	123.84768627
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		57135	133.74806116	57136	134.74012372	57137	135.73040111
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		57147	145.66605122	57148	146.66142002	57149	147.65531315
		57150	148.65072400	57151	149.64505818	57152	150.64095879
		57153	151.63570936	57154	152.63195695	57155	153.62718340
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		58125	123.85524474	58126	124.84222365	58127	125.83240382
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		58131	129.78980428	58132	130.77827773	58133	131.76974131
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		58137	135.73170182	58138	136.72131267	58139	137.71337784
		58140	138.70358384	58141	139.69780655	58142	140.69017569
		58143	141.68469992	58144	142.67736003	58145	143.67232455
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		58149	147.64903345	58150	148.64243476	58151	149.63738090
		58152	150.63133220	58153	151.62674701	58154	152.62097214
		58155	153.61696197	58156	154.61156383	58157	155.60800971
59000	139.697182	59121	119.91629937	59122	120.90418542	59123	121.88979520
		59124	122.87823049	59125	123.86455408	59126	124.85346524
		59127	125.84043325	59128	126.82982129	59129	127.81756656
		59130	128.80748400	59131	129.79559114	59132	130.78600528
		59133	131.77451546	59134	132.76531150	59135	133.75414336
		59136	134.74513636	59137	135.73457678	59138	136.72603506
		59139	137.71564395	59140	138.70718976	59141	139.69718840
		59142	140.69096941	59143	141.68314442	59144	142.67702088
		59145	143.66962649	59146	144.66414174	59147	145.65689130
		59148	146.65141289	59149	147.64439144	59150	148.63873092
		59151	149.63177192	59152	150.62633473	59153	151.62006383
		59154	152.61512099	59155	153.60911000	59156	154.60463387
		59157	155.59917625	59158	156.59509668	59159	157.58999596
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		60130	128.81235777	60131	129.80251911	60132	130.79003659
		60133	131.78048123	60134	132.76836350	60135	133.75916923
		60136	134.74740116	60137	135.73840529	60138	136.72722012
		60139	137.71865772	60140	138.70766180	60141	139.69912868
		60142	140.68866784	60143	141.68215039	60144	142.67383055
		60145	143.66770508	60146	144.65965323	60147	145.65402063
		60148	146.64621618	60149	147.64085329	60150	148.63299848
		60151	149.62732080	60152	150.61957628	60153	151.61397591
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		60160	158.57505055	60161	159.57120892		
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		61135	133.76580656	61136	134.75591716	61137	135.74426686
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		61141	139.70303998	61142	140.69377477	61143	141.68325911
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		61147	145.65306699	61148	146.64679252	61149	147.63905419
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		61159	157.57360796	61160	158.56900295	61161	159.56325782
		61162	160.55905928	61163	161.55382968	61548	146.64679252
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		62143	141.68692309	62144	142.67572633	62145	143.66853461
		62146	144.65957785	62147	145.65282844	62148	146.64416335
		62149	147.63791464	62150	148.62941419	62151	149.62345775
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		62158	156.57329689	62159	157.56789871	62160	158.56122039
		62161	159.55628821	62162	160.55006720	62163	161.54558115
		62164	162.53988559	62165	163.53595473		
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		63142	140.70424452	63143	141.69254356	63144	142.68248511
		63145	143.67136497	63146	144.66370699	63147	145.65466075
		63148	146.64739854	63149	147.63865473	63150	148.63181963
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		63154	152.60070697	63155	153.59203125	63156	154.58528379
		63157	155.57735894	63158	156.57116931	63159	157.56381171
		63160	158.55807861	63161	159.55118245	63162	160.54592310
		63163	161.53948398	63164	162.53464103	63165	163.52875710
		63166	164.52438011	63167	165.51900180		
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		64158	156.56746006	64159	157.56113470	64160	158.55320399
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		64164	162.52757228	64165	163.52247156	64166	164.51608201
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		65145	143.68426198	65146	144.67366150	65147	145.66189653
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		65163	161.53099507	65164	162.52508467	65165	163.51801022
		65166	164.51250497	65167	165.50595485	65168	166.50092353
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		66147	145.66888290	66148	146.65638462	66149	147.64794776
		66150	148.63765245	66151	149.62965624	66152	150.61961205
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		66159	157.56049084	66160	158.55136331	66161	159.54449377
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		66165	163.51486084	66166	164.50736429	66167	165.50159806
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		67152	150.62654737	67153	151.61645498	67154	152.60826383
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		67161	159.54540727	67162	160.53804685	67163	161.52909788
		67164	162.52199412	67165	163.51349144	67166	164.50684620
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		67170	168.47975604	67171	169.47299592	67172	170.46773147
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		68158	156.57319989	68159	157.56539321	68160	158.55521571
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		68173	171.45674178	68174	172.44996558	68175	173.44488469
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		69148	146.68681114	69149	147.67314464	69150	148.66181787
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		72180	178.40072272	72181	179.39466162	72182	180.38751151
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		73164	162.54509445	73165	163.53376621	73166	164.52491745
		73167	165.51392875	73168	166.50529267	73169	167.49468368
		73170	168.48625579	73171	169.47598091	73172	170.46780583
		73173	171.45808018	73174	172.45018765	73175	173.44088633
		73176	174.43340623	73177	175.42443446	73178	176.41713858
		73179	177.40869811	73180	178.40162974	73181	179.39356563
		73182	180.38711272	73183	181.37973252	73184	182.37375475
		73185	183.36670235	73186	184.36107881	73187	185.35444931
		73188	186.34900160	73189	187.34252283	73190	188.33730314



74000	182.269538	74158	156.61748469	74159	157.60726433	74160	158.59427279
		74161	159.58457015	74162	160.57215324	74163	161.56259725
		74164	162.55046827	74165	163.54120915	74166	164.52939392
		74167	165.52059401	74168	166.50902175	74169	167.50040192
		74170	168.48928304	74171	169.48091317	74172	170.47018223
		74173	171.46198534	74174	172.45179870	74175	173.44384073
		74176	174.43417656	74177	175.42658641	74178	176.41723575
		74179	177.40982923	74180	178.40087590	74181	179.39376539
		74182	180.38518176	74183	181.37859273	74184	182.37070440
		74185	183.36458062	74186	184.35692689	74187	185.35110873
		74188	186.34383547	74189	187.33863934	74190	188.33130648
		74191	189.32610525	74192	190.31907128		
75000	184.607099	75160	158.60779185	75161	159.59471437	75162	160.58455040
		75163	161.57207214	75164	162.56173923	75165	163.54994209
		75166	164.54008205	75167	165.52831212	75168	166.51870209
		75169	167.50735399	75170	168.49819739	75171	169.48712435
		75172	170.47824335	75173	171.46749163	75174	172.45877425
		75175	173.44846467	75176	174.44011411	75177	175.43023975
		75178	176.42230460	75179	177.41272136	75180	178.40492544
		75181	179.39561998	75182	180.38816186	75183	181.37918449
		75184	182.37228031	75185	183.36412033	75186	184.35754350
		75187	185.34971346	75188	186.34346402	75189	187.33597854
		75190	188.32995479	75191	189.32266034	75192	190.31688027
		75193	191.30978682	75194	192.30412100		
76000	188.605524	76162	160.59290699	76163	161.58259047	76164	162.56938562
		76165	163.55953243	76166	164.54690568	76167	165.53718223
		76168	166.52487963	76169	167.51551148	76170	168.50350833
		76171	169.49452901	76172	170.48280417	76173	171.47400064
		76174	172.46268755	76175	173.45398170	76176	174.44326977
		76177	175.43483724	76178	176.42454740	76179	177.41651685
		76180	178.40650150	76181	179.39876878	76182	180.38905423
		76183	181.38147094	76184	182.37224890	76185	183.36519827
		76186	184.35640544	76187	185.34971083	76188	186.34120737
		76189	187.33490629	76190	188.32661282	76191	189.32048368
		76192	190.31243944	76193	191.30649689	76194	192.29892807
		76195	193.29325688	76196	194.28616607		
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		77167	165.54721251	77168	166.53685320	77169	167.52470747
		77170	168.51479847	77171	169.50289772	77172	170.49314724
		77173	171.48162788	77174	172.47240221	77175	173.46108719
		77176	174.45203649	77177	175.44111899	77178	176.43231089
		77179	177.42177751	77180	178.41329329	77181	179.40311244
		77182	180.39496909	77183	181.38515934	77184	182.37719299
		77185	183.36783119	77186	184.36047810	77187	185.35130988
		77188	186.34419636	77189	187.33547285	77190	188.32869371
		77191	189.32015089	77192	190.31355410	77193	191.30528228
		77194	192.29882526	77195	193.29112823	77196	194.28493396
		77197	195.27758943	77198	196.27160310	77199	197.26452410
78000	193.404281	78166	164.56887953	78167	165.55842916	78168	166.54505190
		78169	167.53503801	78170	168.52226407	78171	169.51243359
		78172	170.49997917	78173	171.49049407	78174	172.47830875
		78175	173.46932348	78176	174.45728693	78177	175.44822539
		78178	176.43683839	78179	177.42796504	78180	178.41706266
		78181	179.40853743	78182	180.39803687	78183	181.38986877

		78184	182.37961823	78185	183.37171851	78186	184.36187074
		78187	185.35450582	78188	186.34473397	78189	187.33756943
		78190	188.32808467	78191	189.32122421	78192	190.31200056
		78193	191.30534273	78194	192.29644774	78195	193.28995000
		78196	194.28151853	78197	195.27529619	78198	196.26725358
		78199	197.26134020	78200	198.25359002	78201	199.24804534
		78202	200.24067145				
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		79172	170.51255805	79173	171.50020258	79174	172.49014840
		79175	173.47810098	79176	174.46834549	79177	175.45654870
		79178	176.44713239	79179	177.43574701	79180	178.42647079
		79181	179.41545921	79182	180.40641152	79183	181.39581359
		79184	182.38708282	79185	183.37684450	79186	184.36841591
		79187	185.35845217	79188	186.35061132	79189	187.34065728
		79190	188.33281239	79191	189.32323435	79192	190.31574308
		79193	191.30649505	79194	192.29910967	79195	193.29019142
		79196	194.28312292	79197	195.27453130	79198	196.26760009
		79199	197.25952800	79200	198.25288114	79201	199.24521425
		79202	200.23875391	79203	201.23150055	79204	202.22545745
		79205	203.21899454				
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		80174	172.49818149	80175	173.48816296	80176	174.47553874
		80177	175.46588207	80178	176.45352819	80179	177.44429400
		80180	178.43216670	80181	179.42313298	80182	180.41144004
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		80186	184.37179572	80187	185.36365379	80188	186.35284535
		80189	187.34486259	80190	188.33442056	80191	189.32665757
		80192	190.31655739	80193	191.30898915	80194	192.29918319
		80195	193.29186241	80196	194.28239209	80197	195.27517001
		80198	196.26613947	80199	197.25904691	80200	198.25050211
		80201	199.24387091	80202	200.23561825	80203	201.22923809
		80204	202.22126372	80205	203.21523054	80206	204.20806836
		80207	205.20450877	80208	206.19924095	80209	207.19570666
		80210	208.19055637				
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		81179	177.45346972	81180	178.44370632	81181	179.43149863
		81182	180.42232288	81183	181.41028794	81184	182.40138053
		81185	183.38973471	81186	184.38068193	81187	185.36969313
		81188	186.36120564	81189	187.35021460	81190	188.34191037
		81191	189.33124685	81192	190.32309145	81193	191.31296131
		81194	192.30489429	81195	193.29489040	81196	194.28700066
		81197	195.27751133	81198	196.26982202	81199	197.26063026
		81200	198.25311613	81201	199.24438310	81202	200.23706848
		81203	201.22871437	81204	202.22163014	81205	203.21359883
		81206	204.20667667	81207	205.19938406	81208	206.19535334
		81209	207.19007442	81210	208.18615817	81211	209.18094177
		81212	210.17706147				
82000	205.436797	82178	176.47469186	82179	177.46443562	82180	178.45164966
		82181	179.44177609	82182	180.42926744	82183	181.41988660
		82184	182.40759589	82185	183.39847759	82186	184.38654507
		82187	185.37763677	82188	186.36602841	82189	187.35737117
		82190	188.34607862	82191	189.33767004	82192	190.32662104
		82193	191.31841529	82194	192.30768221	82195	193.29961715
		82196	194.28927392	82197	195.28133481	82198	196.27135917

		82199	197.26364380	82200	198.25397271	82201	199.24643098
		82202	200.23712135	82203	201.22975168	82204	202.22081725
		82205	203.21365258	82206	204.20504576	82207	205.19787459
		82208	206.19003281	82209	207.18584225	82210	208.18032356
		82211	209.17624245	82212	210.17078540	82213	211.16683864
		82214	212.16144437	82215	213.15781252		
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		83187	185.38679686	83188	186.37732137	83189	187.36569109
		83190	188.35620449	83191	189.34512655	83192	190.33621073
		83193	191.32514352	83194	192.31642831	83195	193.30567337
		83196	194.29709852	83197	195.28672147	83198	196.27846960
		83199	197.26835826	83200	198.26022370	83201	199.25052007
		83202	200.24265658	83203	201.23320722	83204	202.22554542
		83205	203.21653521	83206	204.20904496	83207	205.20042628
		83208	206.19309639	83209	207.18515681	83210	208.18025599
		83211	209.17478755	83212	210.17017883	83213	211.16466067
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		83217	215.14525450	83218	216.14146839		
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		84191	189.35383942	84192	190.34203743	84193	191.33313974
		84194	192.32173399	84195	193.31306927	84196	194.30192477
		84197	195.29345827	84198	196.28261628	84199	197.27430087
		84200	198.26385897	84201	199.25572569	84202	200.24564589
		84203	201.23771228	84204	202.22802929	84205	203.22031640
		84206	204.21100990	84207	205.20352195	84208	206.19458698
		84209	207.18717106	84210	208.17902001	84211	209.17417654
		84212	210.16778185	84213	211.16314641	84214	212.15687986
		84215	213.15247178	84216	214.14635491	84217	215.14214623
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		85196	194.31209019	85197	195.30092317	85198	196.29198370
		85199	197.28110808	85200	198.27233816	85201	199.26183003
		85202	200.25345096	85203	201.24318673	85204	202.23490293
		85205	203.22514572	85206	204.21714270	85207	205.20767628
		85208	206.19988534	85209	207.19088161	85210	208.18325733
		85211	209.17501241	85212	210.16964253	85213	211.16322509
		85214	212.15804019	85215	213.15171095	85216	214.14685877
		85217	215.14054413	85218	216.13589502	85219	217.12975070
		85220	218.12536973	85221	219.11939887	85222	220.11505162
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		86198	196.29777498	86199	197.28887879	86200	198.27764025
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		86204	202.23904446	86205	203.23074155	86206	204.22065930
		86207	205.21258447	86208	206.20291162	86209	207.19508677
		86210	208.18578394	86211	209.17809000	86212	210.16960164
		86213	211.16416299	86214	212.15703968	86215	213.15180307
		86216	214.14472834	86217	215.13975978	86218	216.13282851
		86219	217.12808365	86220	218.12139051	86221	219.11690724
		86222	220.11034019	86223	221.10592578	86224	222.09961555
		86225	223.09533770	86226	224.08917617	86227	225.08506389
		86228	226.07903025				
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		87226	224.08768532	87227	225.08152350	87228	226.07679264
		87229	227.07090001	87230	228.06633443	87231	229.06064878
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		88208	206.21500430	88209	207.20656396	88210	208.19648994
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		96242	239.97943425	96243	240.97337512	96244	241.96613639
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		96248	245.94128797	96249	246.93627143	96250	247.93006385
		96251	248.92536727	96252	249.91933998		
97000	244.878000	97235	233.03733116	97236	234.02948424	97237	235.02056957
		97238	236.01324611	97239	237.00465365	97240	237.99753045
		97241	238.98940693	97242	239.98255240	97243	240.97497968
		97244	241.96854373	97245	242.96112395	97246	243.95482494
		97247	244.94785456	97248	245.94201913	97249	246.93531298
		97250	247.93002375	97251	248.92385593	97252	249.91878479
		97253	250.91274223	97254	251.90783979		
98000	248.844000	98237	235.02559304	98238	236.01634823	98239	237.00876106
		98240	238.00005161	98241	238.99287289	98242	239.98425818
		98243	240.97737832	98244	241.96935660	98245	242.96279645
		98246	243.95495617	98247	244.94854211	98248	245.94112573
		98249	246.93518100	98250	247.92812971	98251	248.92269263
		98252	249.91612369	98253	250.91101038	98254	251.90459085
		98255	252.89969148	98256	253.89347444		
99000	251.818000	99240	238.00661275	99241	238.99764356	99242	239.99024971
		99243	240.98146392	99244	241.97419697	99245	242.96604370
		99246	243.95901172	99247	244.95117471	99248	245.94438364

		99249	246.93672508	99250	247.93031670	99251	248.92309450
		99252	249.91746474	99253	250.91070458	99254	251.90528396
		99255	252.89892524	99256	253.89363108	99257	254.88740115
		99258	255.88232125				
		99654	251.90528396	1099254	251.90528396		
100000	254.792000	100242	239.99390305	100243	240.98622764	100244	241.97737047
		100245	242.97006982	100246	243.96139410	100247	244.95433830
		100248	245.94609255	100249	246.93932555	100250	247.93121815
		100251	248.92466378	100252	249.91695748	100253	250.91106203
		100254	251.90412619	100255	252.89861699	100256	253.89182187
		100257	254.88653438	100258	255.87989824	100259	256.87479653
		100260	257.86827116				
101000	242.975467	101245	242.97546705	101246	243.96792449	101247	244.95908517
		101248	245.95167248	101249	246.94327037	101250	247.93607480
		101251	248.92789972	101252	249.92101546	101253	250.91313879
		101254	251.90690390	101255	252.89972787	101256	253.89408814
		101257	254.88696727	101258	255.88124192	101259	256.87471127
		101260	257.86923679	101261	258.86269754	101262	259.85722405
102000	245.955413	102248	245.95541307	102249	246.94804896	102250	247.93913826
		102251	248.93203688	102252	249.92341122	102253	250.91650760
		102254	251.90819200	102255	252.90186776	102256	253.89430986
		102257	254.88829162	102258	255.88101953	102259	256.87522879
		102260	257.86823646	102261	258.86272530	102262	259.85567348
		102263	260.85030608	102264	261.84349319		
103000	248.937338	103251	248.93733893	103252	249.92975077	103253	250.92100067
		103254	251.91364351	103255	252.90527808	103256	253.89861886
		103257	254.89094643	103258	255.88459554	103259	256.87708272
		103260	257.87107288	103261	258.86384956	103262	259.85798644
		103263	260.85104071	103264	261.84517165	103265	262.83836670
		103266	263.83321244				
104000	250.926432	104253	250.92643260	104254	251.91734146	104255	252.90989705
		104256	253.90113426	104257	254.89435192	104258	255.88625615
		104259	256.87979522	104260	257.87200084	104261	258.86571693
		104262	259.85827494	104263	260.85228394	104264	261.84511911
		104265	262.83922427	104266	263.83187503	104267	264.82682686
		104268	265.82033321				
105000	252.915903	105255	252.91590301	105256	253.90803527	105257	254.89904327
		105258	255.89194882	105259	256.88373409	105260	257.87681909
		105261	258.86897812	105262	259.86239822	105263	260.85470397
		105264	261.84850874	105265	262.84110497	105266	263.83492163
		105267	264.82766757	105268	265.82211874	105269	266.81552595
		105270	267.81015953				
106000	255.895852	106258	255.89585200	106259	256.88858208	106260	257.87991434
		106261	258.87300423	106262	259.86469234	106263	260.85800933
		106264	261.85002262	106265	262.84359707	106266	263.83594874
		106267	264.82969798	106268	265.82227836	106269	266.81680982
		106270	267.80977982	106271	268.80430534	106272	269.79738638
		106273	270.79183160				
107000	257.887397	107260	257.88739743	107261	258.87850358	107262	259.87113055
		107263	260.86268184	107264	261.85564688	107265	262.84759474
		107266	263.84078384	107267	264.83289528	107268	265.82639171
		107269	266.81873217	107270	267.81303859	107271	268.80599768
		107272	269.80023569	107273	270.79321759	107274	271.78742486
		107275	272.78062884				

108000	260.868157	108263	260.86815740	108264	261.85940520	108265	262.85249032
		108266	263.84391174	108267	264.83699872	108268	265.82877804
		108269	266.82206529	108270	267.81406370	108271	268.80845439
		108272	269.80124693	108273	270.79556524	108274	271.78810993
		108275	272.78231621	108276	273.77497095	108277	274.76899085
109000	262.858504	109265	262.85850421	109266	263.85105187	109267	264.84246932
		109268	265.83528763	109269	266.82702134	109270	267.82001910
		109271	268.81190648	109272	269.80589267	109273	270.79846710
		109274	271.79243347	109275	272.78498806	109276	273.77888503
		109277	274.77154769	109278	275.76532866	109279	276.75810732
110000	264.849442	110267	264.84944289	110268	265.84031110	110269	266.83303821
		110270	267.82404720	110271	268.81678719	110272	269.80844952
		110273	270.80238317	110274	271.79441628	110275	272.78848675
		110276	273.78074690	110277	274.77474697	110278	275.76697143
		110279	276.76075240	110280	277.75308790	110281	278.74674395
111000	269.815684	111272	269.81568483	111273	270.80716077	111274	271.80058384
		111275	272.79241868	111276	273.78615900	111277	274.77858571
		111278	275.77206232	111279	276.76432841	111280	277.75772571
		111281	278.75002651	111282	279.74353187	111283	280.73586241
112000	274.782971	112277	274.78297170	112278	275.77474705	112279	276.76837138
		112280	277.76026967	112281	278.75390688	112282	279.74579129
		112283	280.73921040	112284	281.73120683	112285	282.72432257
113000	280.743829	113283	280.74382937	113284	281.73685390	113285	282.72890982
		113286	283.72205331	113287	284.71402199		
114000	282.733833	114285	282.73383316	114286	283.72539833	114287	284.71853687
		114288	285.71003562	114289	286.70302148		
115000	284.724075	115287	284.72407587	115288	285.71678017	115289	286.70841078
		115290	287.70123405	115291	288.69288448		
116000	286.714504	116289	286.71450497	116290	287.70564483	116291	288.69846314
		116292	289.68964960				
117000	288.704959	117291	288.70495985	117292	289.69734591		
118000	290.695815	118293	290.69581525				

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