

MAXIMUM TEMPERATURE RANGE

Thermocouple Grade

32 to 3092°F
0 to 1700°C

Extension Grade

32 to 212°F
0 to 100°C

LIMITS OF ERROR

(whichever is greater)

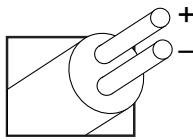
Standard: 0.5°C over 800°C

Special: NOT ESTABLISHED

COMMENTS, BARE WIRE ENVIRONMENT:

Oxidizing or Inert; Do Not Insert in Metal Tubes;
Beware of Contamination; High Temperature;
Common Use in Glass Industry

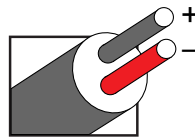
TEMPERATURE IN DEGREES °F
REFERENCE JUNCTION AT 32°F



Thermocouple Grade

NONE ESTABLISHED

Platinum-30% Rhodium
vs.
Platinum-6% Rhodium



Extension Grade

Revised Thermocouple Reference Tables

TYPE B
Reference Tables
N.I.S.T.
Monograph 175
Revised to ITS-90

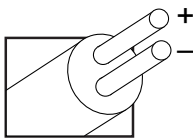
Thermoelectric Voltage in Millivolts

°F	0	1	2	3	4	5	6	7	8	9	10	°F	°F	0	1	2	3	4	5	6	7	8	9	10	°F
30			0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	30	600	0.479	0.481	0.483	0.485	0.486	0.488	0.490	0.492	0.494	0.495	0.497	600
40	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.002	-0.002	-0.002	-0.002	-0.002	40	610	0.497	0.499	0.501	0.503	0.505	0.506	0.508	0.510	0.512	0.514	0.516	610
50	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	50	620	0.516	0.517	0.519	0.521	0.523	0.525	0.527	0.529	0.530	0.532	0.534	620
60	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.003	-0.003	-0.003	-0.003	-0.003	60	630	0.534	0.536	0.538	0.540	0.542	0.544	0.546	0.547	0.549	0.551	0.553	630
70	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.003	-0.002	-0.002	-0.002	-0.002	70	640	0.553	0.555	0.557	0.559	0.561	0.563	0.565	0.567	0.569	0.570	0.572	640
80	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	-0.002	80	650	0.572	0.574	0.576	0.578	0.580	0.582	0.584	0.586	0.588	0.590	0.592	650
90	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	90	660	0.592	0.594	0.596	0.598	0.600	0.602	0.604	0.606	0.608	0.610	0.612	660
100	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	670	0.612	0.614	0.616	0.618	0.620	0.622	0.624	0.626	0.628	0.630	0.632	670
110	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	110	680	0.632	0.634	0.636	0.638	0.640	0.642	0.644	0.646	0.648	0.650	0.653	680
120	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	120	690	0.653	0.655	0.657	0.659	0.661	0.663	0.665	0.667	0.669	0.671	0.673	690
130	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	130	700	0.673	0.675	0.678	0.680	0.682	0.684	0.686	0.688	0.690	0.692	0.694	700
140	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.009	140	710	0.694	0.697	0.699	0.701	0.703	0.705	0.707	0.709	0.712	0.714	0.716	710
150	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.012	0.012	150	720	0.716	0.718	0.720	0.722	0.725	0.727	0.729	0.731	0.733	0.735	0.738	720
160	0.012	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.015	0.015	0.015	160	730	0.738	0.740	0.742	0.744	0.746	0.749	0.751	0.753	0.755	0.757	0.760	730
170	0.015	0.016	0.016	0.016	0.017	0.017	0.017	0.018	0.018	0.019	0.019	170	740	0.760	0.762	0.764	0.766	0.769	0.771	0.773	0.775	0.778	0.780	0.782	740
180	0.019	0.019	0.020	0.020	0.021	0.021	0.021	0.022	0.022	0.023	0.023	180	750	0.782	0.784	0.787	0.789	0.791	0.793	0.796	0.798	0.800	0.802	0.805	750
190	0.023	0.023	0.024	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.027	190	760	0.805	0.807	0.809	0.812	0.814	0.816	0.818	0.821	0.823	0.825	0.828	760
200	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	200	770	0.828	0.830	0.832	0.835	0.837	0.839	0.842	0.844	0.846	0.849	0.851	770
210	0.032	0.033	0.033	0.034	0.034	0.035	0.035	0.036	0.036	0.037	0.037	210	780	0.851	0.853	0.856	0.858	0.860	0.863	0.865	0.867	0.870	0.872	0.875	780
220	0.037	0.038	0.038	0.039	0.039	0.040	0.041	0.041	0.042	0.042	0.043	220	790	0.875	0.877	0.879	0.882	0.884	0.886	0.889	0.891	0.894	0.896	0.898	790
230	0.043	0.043	0.044	0.044	0.045	0.046	0.046	0.047	0.047	0.048	0.049	230	800	0.898	0.901	0.903	0.906	0.908	0.910	0.913	0.915	0.918	0.920	0.923	800
240	0.049	0.049	0.050	0.050	0.051	0.052	0.052	0.053	0.053	0.054	0.055	240	810	0.923	0.925	0.927	0.930	0.932	0.935	0.937	0.940	0.942	0.945	0.947	810
250	0.055	0.055	0.056	0.057	0.057	0.058	0.059	0.059	0.060	0.060	0.061	250	820	0.947	0.950	0.952	0.955	0.957	0.959	0.962	0.964	0.967	0.969	0.972	820
260	0.061	0.062	0.062	0.063	0.064	0.065	0.065	0.066	0.067	0.067	0.068	260	830	0.972	0.974	0.977	0.979	0.982	0.984	0.987	0.989	0.992	0.994	0.997	830
270	0.068	0.069	0.069	0.070	0.071	0.072	0.072	0.073	0.074	0.074	0.075	270	840	0.997	1.000	1.002	1.005	1.007	1.010	1.012	1.015	1.017	1.020	1.022	840
280	0.075	0.076	0.077	0.077	0.078	0.079	0.080	0.080	0.081	0.082	0.083	280	850	1.022	1.025	1.027	1.030	1.033	1.035	1.038	1.040	1.043	1.045	1.048	850
290	0.083	0.083	0.084	0.085	0.086	0.086	0.087	0.088	0.088	0.089	0.090	290	860	1.048	1.051	1.053	1.056	1.058	1.061	1.064	1.066	1.069	1.071	1.074	860
300	0.090	0.091	0.092	0.093	0.094	0.094	0.095	0.096	0.097	0.098	0.099	300	870	1.074	1.077	1.079	1.082	1.085	1.087	1.090	1.092	1.095	1.098	1.100	870
310	0.099	0.099	0.100	0.101	0.102	0.103	0.104	0.105	0.105	0.106	0.107	310	880	1.100	1.103	1.106	1.108	1.111	1.114	1.116	1.119	1.122	1.124	1.127	880
320	0.107	0.108	0.109	0.110	0.111	0.112	0.112	0.113	0.114	0.115	0.116	320	890	1.127	1.130	1.132	1.135	1.138	1.140	1.143	1.146	1.148	1.151	1.154	890
330	0.116	0.117	0.118	0.119	0.120	0.121	0.121	0.122	0.123	0.124	0.125	330	900	1.154	1.157	1.159	1.162	1.165	1.167	1.170	1.173	1.176	1.178	1.181	900
340	0.125	0.126	0.127	0.128	0.129	0.130	0.131	0.132	0.133	0.134	0.135	340	910	1.181	1.184	1.186	1.189	1.192	1.195	1.197	1.200	1.203	1.206	1.208	910
350	0.135	0.136	0.137	0.138	0.139	0.140	0.141	0.142	0.143	0.144	0.145	350	920	1.208	1.211	1.214	1.217	1.220	1.222	1.225	1.228	1.231	1.233	1.236	920
360	0.145	0.146	0.147	0.148	0.149	0.150	0.151	0.152	0.153	0.154	0.155	360	930	1.236	1.239	1.242	1.245	1.247	1.250	1.253	1.256	1.259	1.262	1.264	930
370	0.155	0.156	0.157	0.158	0.159	0.160	0.161	0.162	0.163	0.164	0.165	370	940	1.264	1.267	1.270	1.273	1.276	1.278	1.281	1.284	1.287	1.290	1.293	940
380	0.165	0.166	0.167	0.168	0.170	0.171	0.172	0.173	0.174	0.175	0.176	380	950	1.293	1.296	1.298	1.301	1.304	1.307	1.310	1.313	1.316	1.318	1.321	950
390	0.176	0.177	0.178	0.179	0.180	0.182	0.183	0.184	0.185	0.186	0.187	390	960	1.321	1.324	1.327	1.330	1.333	1.336	1.339	1.342	1.344	1.347	1.350	960
400	0.187	0.188	0.190	0.191	0.192	0.193	0.194	0.195	0.196	0.198	0.199	400	970	1.350	1.353	1.356	1.359	1.362	1.365	1.368	1.371	1.374	1.377	1.379	970
410	0.199	0.200	0.201	0.202	0.203	0.205	0.206	0.207	0.208	0.209	0.211	410	980	1.379	1.382	1.385	1.388	1.391	1.394	1.397	1.400	1.403	1.406	1.409	

Revised Thermocouple Reference Tables

TYPE B

Reference Tables
N.I.S.T.
Monograph 175
Revised to ITS-90

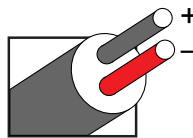


Thermocouple Grade

NONE ESTABLISHED

Platinum-30% Rhodium
VS.
Platinum-6% Rhodium

Extension Grade



MAXIMUM TEMPERATURE RANGE

Thermocouple Grade

32 to 3092°F

0 to 1700°C

Extension Grade

32 to 212°F

0 to 100°C

LIMITS OF ERROR

(whichever is greater)

Standard: 0.5°C over 800°C

Special: NOT ESTABLISHED

COMMENTS, BARE WIRE ENVIRONMENT:
Oxidizing or Inert; Do NOT Insert in Metal Tubes;
Beware of Contamination; High Temperature;
Common Use in Glass Industry

TEMPERATURE IN DEGREES °F
REFERENCE JUNCTION AT 32°F

Thermoelectric Voltage in Millivolts

°F	0	1	2	3	4	5	6	7	8	9	10	°F	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100	2110	2120	2130	2140	2150	2160	2170	2180	2190	2200	2210	2220	2230	2240	2250	2260	2270	2280	2290	2300	2310	2320	2330	2340	2350	2360	2370	2380	2390																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1200	2.094	2.097	2.101	2.104	2.108	2.111	2.115	2.118	2.122	2.126	2.129	1200	4.680	4.673	4.678	4.683	4.688	4.693	4.698	4.703	4.708	4.713	4.718	1800	5.132	5.137	5.142	5.147	5.153	5.158	5.163	5.168	5.173	5.179	5.184	1850	5.611	5.666	5.671	5.677	5.682	5.688	5.693	5.698	5.703	5.708	5.713	1900	6.185	6.240	6.245	6.251	6.256	6.261	6.267	6.272	6.278	6.283	6.288	1950	6.759	6.814	6.819	6.825	6.830	6.835	6.841	6.846	6.851	6.857	6.862	2000	7.333	7.388	7.393	7.399	7.404	7.409	7.414	7.420	7.425	7.430	7.435	2050	7.907	7.962	7.967	7.973	7.978	7.983	7.988	7.993	7.999	8.004	8.009	2100	8.481	8.536	8.541	8.547	8.552	8.557	8.562	8.567	8.572	8.578	8.583	2150	9.055	9.110	9.115	9.121	9.126	9.131	9.136	9.141	9.146	9.151	9.156	2200	9.629	9.684	9.689	9.695	9.700	9.705	9.710	9.715	9.720	9.725	9.730	2250	10.203	10.258	10.263	10.269	10.274	10.279	10.284	10.289	10.294	10.299	10.304	2300	10.777	10.832	10.837	10.843	10.848	10.853	10.858	10.863	10.868	10.873	10.878	2350	11.351	11.406	11.411	11.417	11.422	11.427	11.432	11.437	11.442	11.447	11.452	2400	11.925	11.980	11.985	11.991	11.996	12.001	12.006	12.011	12.016	12.021	12.026	2450	12.499	12.554	12.559	12.565	12.570	12.575	12.580	12.585	12.590	12.595	12.600	2500	13.073	13.128	13.133	13.139	13.144	13.149	13.154	13.159	13.164	13.169	13.174	2550	13.647	13.702	13.707	13.713	13.718	13.723	13.728	13.733	13.738	13.743	13.748	2600	14.221	14.276	14.281	14.287	14.292	14.297	14.302	14.307	14.312	14.317	14.322	2650	14.795	14.850	14.855	14.861	14.866	14.871	14.876	14.881	14.886	14.891	14.896	2700	15.369	15.424	15.429	15.435	15.440	15.445	15.450	15.455	15.460	15.465	15.470	2750	15.943	15.998	15.999	16.005	16.010	16.015	16.020	16.025	16.030	16.035	16.040	2800	16.517	16.572	16.573	16.579	16.584	16.589	16.594	16.599	16.604	16.609	16.614	2850	17.091	17.146	17.147	17.153	17.158	17.163	17.168	17.173	17.178	17.183	17.188	2900	17.665	17.720	17.721	17.727	17.732	17.737	17.742	17.747	17.752	17.757	17.762	2950	18.239	18.294	18.295	18.301	18.306	18.311	18.316	18.321	18.326	18.331	18.336	3000	18.813	18.868	18.869	18.875	18.880	18.885	18.890	18.895	18.900	18.905	18.910	3050	19.387	19.442	19.443	19.449	19.454	19.459	19.464	19.469	19.474	19.479	19.484	3100	19.961	20.016	20.017	20.023	20.028	20.033	20.038	20.043	20.048	20.053	20.058	3150	20.535	20.590	20.591	20.597	20.602	20.607	20.612	20.617	20.622	20.627	20.632	3200	21.109	21.164	21.165	21.171	21.176	21.181	21.186	21.191	21.196	21.201	21.206	3250	21.683	21.738	21.739	21.745	21.750	21.755	21.760	21.765	21.770	21.775	21.780	3300	22.257	22.312	22.313	22.319	22.324	22.329	22.334	22.339	22.344	22.349	22.354	3350	22.831	22.886	22.887	22.893	22.898	22.903	22.908	22.913	22.918	22.923	22.928	3400	23.405	23.460	23.461	23.467	23.472	23.477	23.482	23.487	23.492	23.497	23.502	3450	23.979	24.034	24.035	24.041	24.046	24.051	24.056	24.061	24.066	24.071	24.076	3500	24.553	24.608	24.609	24.615	24.620	24.625	24.630	24.635	24.640	24.645	24.650	3550	25.127	25.182	25.183	25.189	25.194	25.199	25.204	25.209	25.214	25.219	25.224	3600	25.701	25.756	25.757	25.763	25.768	25.773	25.778	25.783	25.788	25.793	25.798	3650	26.275	26.330	26.331	26.337	26.342	26.347	26.352	26.357	26.362	26.367	26.372	3700	26.849	26.904	26.905	26.911	26.916	26.921	26.926	26.931	26.936	26.941	26.946	3750	27.423	27.478	27.479	27.485	27.490	27.495	27.500	27.505	27.510	27.515	27.520	3800	27.997	28.052	28.053	28.059	28.064	28.069	28.074	28.079	28.084	28.089	28.094	3850	28.571	28.626	28.627	28.633	28.638	28.643	28.648	28.653	28.658	28.663	28.668	3900	29.145	29.200	29.201	29.207	29.212	29.217	29.222	29.227	29.232	29.237	29.242	3950	29.719	29.774	29.775	29.781	29.786	29.791	29.796	29.801	29.806	29.811	29.816	4000	30.293	30.348	30.349	30.355	30.360	30.365	30.370	30.375	30.380	30.385	30.390	4050	30.867	30.922	30.923	30.929	30.934	30.939	30.944	30.949	30.954	30.959	30.964	4100	31.441	31.496	31.497	31.503	31.508	31.513	31.518	31.523	31.528	31.533	31.538	4150	32.015	32.070	32.071	32.077	32.082	32.087	32.092	32.097	32.102	32.107	32.112	4200	32.589	32.644	32.645	32.651	32.656	32.661	32.666	32.671	32.676	32.681	32.686	4250	33.163	33.218	33.219	33.225	33.230	33.235	33.240	33.245	33.250	33.255	33.260	4300	33.737	33.792	33.793	33.799	33.804	33.809	33.814	33.819	33.824	33.829	33.834	4350	34.311	34.366	34.367	34.373	34.378	34.383	34.388	34.393	34.398	34.403	34.408	4400	34.885	34.940	34.941	34.947	34.952	34.957	34.962	34.967	34.972	34.977	34.982	4450	35.459	35.514	35.515	35.521	35.526	35.531	35.536	35.541	35.546	35.551	35.556	4500	36.033	36.088	36.089	36.095	36.100	36.105	36.110	36.115	36.120	36.125	36.130	4550	36.607	36.662	36.663	36.669	36.674	36.679	36.684	36.689	36.694	36.699	36.704	4600	37.181	37.236	37.237	37.243	37.248	37.253	37.258	37.263	37.268	37.273	37.278	4650	37.755	37.810	37.811	37.817	37.822	37.827	37.832	37.837	37.842	37.847	37.852	4700	38.329	38.384	38.385	38.391	38.396	38.401	38.406	38.411	38.416	38.421	38.426	4750	38.903	38.958	38.959	38.965	38.970	38.975	38.980	38.985	38.990	38.995	39.000	4800	39.477	39.532	39.533	39.539	39.544	39.549	39.554	39.559	39.564	39.569	39.574	4850	40.051	40.106	40.107	40.113	40.118	40.123	40.128	40.133	40.138	40.143	40.148	4900	40.625	40.680	40.681	40.687	40.692	40.697	40.702	40.707	40.712	40.717	40.722	4950	41.199	41.254	41.255	41.261	41.266	41.271	41.276	41.281	41.286	41.291	41.296	5000	41.773	41.828	41.829	41.835	41.840	41.845	41.850	41.855	41.860	41.865	41.870	5050	42.347	42.402	42.403	42.409	42.414	42.419	42.424	42.429	42.434	42.439	42.444	5100	42.921	42.976	42.977	42.983	42.988	42.993	42.998	43.003	43.008	43.013	43.018	5150	43.495	43.550	43.551	43.557	43.562	43.567	43.572	43.577	43.582	43.587	43.592	5200	44.069	44.124	44.125	44.131	44.136	44.141	44.146	44.151	44.156	44.161	44.166	5250	44.643	44.698	44.699	44.705	44.710	44.715	44.720	44.725	44.730	44.735	44.740	5300	45.217	45.272	45.273	45.279	45.284	45.289	45.294	45.299	45.304	45.309	45.314	5350	45.791	45.846	45.847	45.853	45.858	45.863	45.868	45.873	45.878	45.883	45.888	5400	46.365	46.420	46.421	46.427	46.432	46.437	46.442	46.447	46.452	46.457	46.462	5450	46.939	46.994	46.995	47.001	47.006	47.011	47.016	47.021	47.026	47.031	47.036	5500	47.513	47.568	47.569	47.575	47.580	47.585	47.590	47.595	47.600	47.605	47.610	5550	48.087	48.142	48.143	48.149	48.154	48.159	48.164	48.169	48.174	48.179	48.184	5600	48.661	48.716	48.717	48.723	48.728	48.733	48.738	48.743	48.748	48.753	48.758	5650	49.235	49.290	49.291	49.297	49.302	49.307	49.312	49.317	49.322	49.327	49.332	5700	49.809	49.864	49.865	49.871	49.876	49.881	49.886	49.891	49.896	49.901	49.906	5750	50.383	50.438	50.439	50.445	50.450	50.455	50.460	50.465	50.470	50.475	50.480	5800	50.957	51.012	51.013	51.019	51.024	51.029	51.034	51.039	51.044	51.049

MAXIMUM TEMPERATURE RANGE

Thermocouple Grade

32 to 3092°F
0 to 1700°C

Extension Grade

32 to 212°F
0 to 100°C

LIMITS OF ERROR

(whichever is greater)

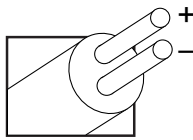
Standard: 0.5°C over 800°C

Special: NOT ESTABLISHED

COMMENTS, BARE WIRE ENVIRONMENT:

Oxidizing or Inert; Do Not Insert in Metal Tubes;
Beware of Contamination; High Temperature;
Common Use in Glass Industry

**TEMPERATURE IN DEGREES °F
REFERENCE JUNCTION AT 32°F**

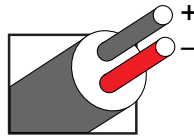


**Platinum-30% Rhodium
vs.
Platinum-6% Rhodium**

**Extension
Grade**

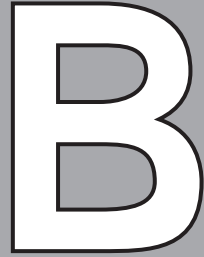
**Thermocouple
Grade**

**NONE
ESTABLISHED**



**Revised Thermocouple
Reference Tables**

TYPE B
Reference
Tables
N.I.S.T.
Monograph 175
Revised to
ITS-90



Thermoelectric Voltage in Millivolts

°F	0	1	2	3	4	5	6	7	8	9	10	°F	°F	0	1	2	3	4	5	6	7	8	9	10	°F
2400	8.018	8.024	8.030	8.036	8.042	8.048	8.054	8.060	8.066	8.073	8.079	2400	2900	11.185	11.192	11.198	11.205	11.211	11.218	11.224	11.231	11.237	11.244	11.250	2900
2410	8.079	8.085	8.091	8.097	8.103	8.109	8.115	8.121	8.127	8.134	8.140	2410	2910	11.250	11.257	11.263	11.270	11.276	11.282	11.289	11.295	11.302	11.308	11.315	2910
2420	8.140	8.146	8.152	8.158	8.164	8.170	8.176	8.182	8.188	8.195	8.201	2420	2920	11.315	11.321	11.328	11.334	11.341	11.347	11.354	11.360	11.367	11.373	11.380	2920
2430	8.201	8.207	8.213	8.219	8.225	8.231	8.237	8.244	8.250	8.256	8.262	2430	2930	11.380	11.386	11.393	11.399	11.406	11.412	11.419	11.425	11.432	11.438	11.445	2930
2440	8.262	8.268	8.274	8.280	8.286	8.293	8.299	8.305	8.311	8.317	8.323	2440	2940	11.445	11.451	11.458	11.464	11.471	11.477	11.484	11.490	11.497	11.503	11.510	2940
2450	8.323	8.329	8.336	8.342	8.348	8.354	8.360	8.366	8.372	8.379	8.385	2450	2950	11.510	11.516	11.523	11.529	11.536	11.542	11.549	11.555	11.562	11.568	11.575	2950
2460	8.385	8.391	8.397	8.403	8.409	8.416	8.422	8.428	8.434	8.440	8.446	2460	2960	11.575	11.582	11.588	11.595	11.601	11.608	11.614	11.621	11.627	11.634	11.640	2960
2470	8.446	8.453	8.459	8.465	8.471	8.477	8.483	8.490	8.496	8.502	8.508	2470	2970	11.640	11.647	11.653	11.660	11.666	11.673	11.679	11.686	11.692	11.699	11.705	2970
2480	8.508	8.514	8.521	8.527	8.533	8.539	8.545	8.551	8.558	8.564	8.570	2480	2980	11.705	11.712	11.718	11.725	11.731	11.738	11.744	11.751	11.757	11.764	11.770	2980
2490	8.570	8.576	8.582	8.589	8.595	8.601	8.607	8.613	8.620	8.626	8.632	2490	2990	11.770	11.777	11.783	11.790	11.796	11.803	11.809	11.816	11.822	11.829	11.835	2990
2500	8.632	8.638	8.644	8.651	8.657	8.663	8.669	8.675	8.682	8.688	8.694	2500	3000	11.835	11.842	11.848	11.855	11.861	11.868	11.874	11.881	11.887	11.894	11.900	3000
2510	8.694	8.700	8.707	8.713	8.719	8.725	8.731	8.738	8.744	8.750	8.756	2510	3010	11.900	11.907	11.913	11.920	11.926	11.933	11.939	11.946	11.952	11.959	11.965	3010
2520	8.756	8.763	8.769	8.775	8.781	8.787	8.794	8.800	8.806	8.812	8.819	2520	3020	11.965	11.972	11.978	11.985	11.991	11.998	12.004	12.011	12.017	12.024	12.030	3020
2530	8.819	8.825	8.831	8.837	8.844	8.850	8.856	8.862	8.869	8.875	8.881	2530	3030	12.030	12.037	12.043	12.050	12.056	12.063	12.069	12.076	12.082	12.089	12.095	3030
2540	8.881	8.887	8.894	8.900	8.906	8.912	8.919	8.925	8.931	8.937	8.944	2540	3040	12.095	12.102	12.108	12.115	12.121	12.128	12.134	12.141	12.147	12.154	12.160	3040
2550	8.944	8.950	8.956	8.962	8.969	8.975	8.981	8.988	8.994	9.000	9.006	2550	3050	12.160	12.166	12.173	12.179	12.186	12.192	12.199	12.205	12.212	12.218	12.225	3050
2560	9.006	9.013	9.019	9.025	9.031	9.038	9.044	9.050	9.057	9.063	9.069	2560	3060	12.225	12.231	12.238	12.244	12.251	12.257	12.264	12.270	12.277	12.283	12.290	3060
2570	9.069	9.075	9.082	9.088	9.094	9.101	9.107	9.113	9.119	9.126	9.132	2570	3070	12.290	12.296	12.303	12.309	12.316	12.322	12.329	12.335	12.342	12.348	12.355	3070
2580	9.132	9.138	9.145	9.151	9.157	9.164	9.170	9.176	9.182	9.189	9.195	2580	3080	12.355	12.361	12.368	12.374	12.381	12.387	12.394	12.400	12.407	12.413	12.420	3080
2590	9.195	9.201	9.208	9.214	9.220	9.227	9.233	9.239	9.245	9.252	9.258	2590	3090	12.420	12.426	12.433	12.439	12.446	12.452	12.458	12.465	12.471	12.478	12.484	3090
2600	9.258	9.264	9.271	9.277	9.283	9.290	9.296	9.302	9.309	9.315	9.321	2600	3100	12.484	12.491	12.497	12.504	12.510	12.517	12.523	12.530	12.536	12.543	12.549	3100
2610	9.321	9.328	9.334	9.340	9.347	9.353	9.359	9.366	9.372	9.378	9.385	2610	3110	12.549	12.556	12.562	12.569	12.575	12.582	12.588	12.595	12.601	12.607	12.614	3110
2620	9.385	9.391	9.397	9.404	9.410	9.416	9.423	9.429	9.435	9.442	9.448	2620	3120	12.614	12.620	12.627	12.633	12.640	12.646	12.653	12.659	12.666	12.672	12.679	3120
2630	9.448	9.454	9.461	9.467	9.473	9.480	9.486	9.492	9.499	9.505	9.511	2630	3130	12.679	12.685	12.692	12.698	12.704	12.711	12.717	12.724	12.730	12.737	12.743	3130
2640	9.511	9.518	9.524	9.530	9.537	9.543	9.550	9.556	9.562	9.569	9.575	2640	3140	12.743	12.750	12.756	12.763	12.769	12.776	12.782	12.789	12.795	12.801	12.808	3140
2650	9.575	9.581	9.588	9.594	9.600	9.607	9.613	9.619	9.626	9.632	9.639	2650	3150	12.808	12.814	12.821	12.827	12.834	12.840	12.847	12.853	12.860	12.866	12.872	3150
2660	9.639	9.645	9.651	9.658	9.664	9.670	9.677	9.683	9.690	9.696	9.702	2660	3160	12.872	12.879	12.885	12.892	12.898	12.905	12.911	12.918	12.924	12.931	12.937	3160
2670	9.702	9.709	9.715	9.721	9.728	9.734	9.741	9.747	9.753	9.760	9.766	2670	3170	12.937	12.943	12.950	12.956	12.963	12.969	12.976	12.982	12.989	12.995	13.001	3170
2680	9.766	9.772	9.779	9.785	9.792	9.798	9.804	9.811	9.817	9.824	9.830	2680	3180	13.001	13.008	13.014	13.021	13.027	13.034	13.040	13.047	13.053	13.059	13.066	3180
2690	9.830	9.836	9.843	9.849	9.856	9.862	9.868	9.875	9.881	9.888	9.894	2690	3190	13.066	13.072	13.079	13.085	13.092	13.098	13.104	13.111	13.117	13.124	13.130	3190
2700	9.894	9.900	9.907	9.913	9.920	9.926	9.932	9.939	9.945	9.952	9.958	2700	3200	13.130	13.137	13.143	13.149	13.156	13.162	13.169	13.175	13.182	13.188	13.194	3200
2710	9.958	9.964	9.971	9.977	9.984	9.990	9.996	10.003	10.009	10.016	10.022	2710	3210	13.194	13.201	13.207	13.214	13.220	13.227	13.233	13.239	13.246	13.252	13.259	3210
2720	10.022	10.028	10.035	10.041	10.048	10.054	10.061	10.067	10.073	10.080	10.086	2720	3220	13.259	13.265	13.271	13.278	13.284	13.291	13.297	13.304	13.310	13.316	13.323	3220
2730	10.086	10.093	10.099	10.105	10.112	10.118	10.125	10.131	10.138	10.144	10.150	2730	3230	13.323	13.329	13.336	13.342	13.348	13.355	13.361	13.368	13.374	13.380	13.387	3230
2740	10.150	10.157	10.163	10.170	10.176	10.183	10.189	10.195	10.202	10.208	10.215	2740	3240	13.387	13.393	13.400	13.406	13.412	13.419	13.425	13.432	13.438	13.444	13.451	3240
2750	10.215	10.221	10.228	10.234	10.240	10.247	10.253	10.260	10.266	10.273	10.279	2750	3250	13.451	13.457	13.464	13.470	13.476	13.483	13.489	13.496	13.502	13.508	13.515	3250
2760	10.279	10.286	10.292	10.298	10.305	10.311	10.318	10.324	10.331	10.337	10.344	2760	3260	13.515	13.521	13.527	13.534	13.540	13.547	13.553	13.559	13.566	13.572	13.579	3260
2770	10.344	10.350	10.356	10.363	10.369	10.376	10.382	10.389	10.395	10.402	10.408	2770	3270	13.579	13.585	13.591	13.598	13.604	13.610	13.617	13.623	13.630	13.636	13.642	3270
2780	10.408	10.414	10.421	10.427	10.434	10.440	10.447	10.453	10.460	10.466	10.473	2780	3280	13.642	13.649	13.655	13.661	13.668	13.674	13.680	13.687	13.693	13.700	13.706	3280
2790	10.473	10.479	10.485	10.492	10.498	10.505	10.511	10.518	10.524	10.531	10.537	2790	3290	13.706	13.712	13.719	13.725	13.731	13.738	13.744	13.750	13.757	13.763	13.769	3290
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