

FAA TECHNICAL CENTER LETTER REPORT

FLIGHT TEST RESULTS OF EXTENDED HIGH ALTITUDE,
VERY HIGH FREQUENCY (VHF), COMMUNICATIONS ANTENNA
LOCATED AT BARNEGAT (WARREN GROVE), NEW JERSEY

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by

HARRY MORGAN

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**U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
TECHNICAL CENTER
Atlantic City Airport, N.J. 08405**

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ABSTRACT

The Eastern Region, AEA-431, requested that the FAA Technical Center conduct a test flight to collect signal level data from an extended high altitude Very High Frequency (VHF) communications antenna located at Barnegat (Warren Grove), N.J. antenna site. The proposed reconfiguration of the ATC communications antenna there required a flight check of the signal levels in the New York Oceanic Control Sector.

Key Words

Signal Level
Spectrum Analyzer
Oceanic Sector
ATC communications

Project No. 049-311-110

Period Covered: 10/15/81-11/20/81

INTRODUCTION

PURPOSE

The purpose of the test flight was to collect signal level data radiated from an extended high altitude Very High Frequency (VHF) Communications antenna located at the Barnegat (Warren Grove, New Jersey) antenna site. A high gain (16 dB) TACO antenna designed for a horizontal beam width of 80° , and a vertical beam width of 10° , was installed at a height of 100 feet above ground level and powered from a 50 watt transmitter adjusted to 132.150 MHz. The data was expected to confirm coverage to a range of 335 nautical miles (nmi), above flight level 250, throughout the sector from 125° to 205° true bearing from Barnegat.

BACKGROUND

Proposed relocation of the Air Traffic Control (ATC) communications antenna at Barnegat required a flight check of the signal levels in the New York Oceanic Control Sector. The Eastern Region, AEA-431, requested that the Technical Center conduct the tests. Overall project management was under the supervision of Edward M. Sawtelle, ACT-100B.1; technical support was provided by Adolph Cupp, ACT-100L. The author of the report is Harry T. Morgan, Jr., ATC-100K. He may be contacted for additional information at FTS-346-1087, (609) 641-8200, extension 1086.

DATA COLLECTION SYSTEM

The data collection system for this test was a Tektronix Digital Processing Oscilloscope (DPO). The system consists of four units: a terminal keyboard and display, dual floppy disk, Tektronix 4165 digital processor, and the signal processing unit. The signal processing unit contained a 7L13 spectrum analyzer and TR 502 tracking generator. An HP 8640B signal generator was used for calibration of the 7L13 (figure 1) operating at the following settings: scale factor, 10 dB/div.; resolution 30 kHz; Hz/div., 20 kHz; time/div., 5 ms; phase locked. The signal processor was programmed to periodically sample the maximum signal level of 132.150 MHz. The sampled signal was processed and recorded with the aircraft inertial navigation position.

The tracker generator was an aid to the operator of the equipment to maintain the spectrum analyzer on its center frequency, 132.150 MHz, to insure that the sampling of the desired frequency would be correct.

The 50 watt test signal transmitted from the ground location (Lat $39^{\circ} 44' 55''$, Long $74^{\circ} 23' 21''$ W) was received on a type 37R2-U VHF/UHF communications antenna located on the bottom fuselage of the Boeing 727 aircraft at station 410 (figure 2). A short length of RG-8U connected the comm antenna to the spectrum analyzer radio frequency input with a measured loss of 0.7 dB.

FLIGHT SEQUENCE

The planned flight sequence for the test (figure 3) started at approximately 3:30 p.m., November 4, 1981, with a 375 nmi outbound radial flight on the 125° true course from Barnegat utilizing Inertial Navigation System (INS) guidance. This was to be flown at flight level 290, and was to terminate at the -97 dBm signal level position. It was then planned to return to the 335 nmi position of the 125° true course, and to fly an arc at this range clockwise to the 205° true course from Barnegat; this based on the expectation that -97 dBm or stronger signal level would exist at this range. Unfortunately, the -97 dBm signal level did not extend beyond 280 nmi requiring modification and eventual early termination of the test. Table 1 describes the flight sequence and profile as actually flown.

DISCUSSION OF RESULTS

Valid data did not commence until 185 nmi outbound on the 135° true radial from the antenna site due to a problem with the INS signal connector to the data processing system.

At a range of approximately 290 nmi outbound on run 1, propagation losses resulted in the reception of an unuseable signal level (-100dBm). At approximately 320 nmi a decision was made to amend the original flight plan and to return to the 290 nmi point (Run 2), and to establish the arc (Run 3) at this range in lieu of the planned 335 nmi distance. The expected gain in signal level as the center of the beam was approached did not occur, the level remaining constant at -100 dBm.

A second revision was made and the flight was turned inbound (Run 4) on the 175° true radial. Signal level increased markedly with the decreasing range from Barnegat and reached -87 dBm at the 240 nmi point. From this experience it was then deemed necessary to revise the flight plan a third time and to fly the remaining part of the arc at a range of 250 nmi (Run 6).

The cumulative demands of the changes in flight routing and Air Traffic Control (ATC) coordination, resulted in the final decision to terminate the 250 nmi arc prior to the planned intersection with the 205° true radial. The flight path was again amended and proceeded direct to CHAMP intersection, hence back to Atlantic City by way of B24 Route (Run 7).

SUMMARIES OF RESULTS

The results indicate that the signal received by the spectrum analyzer from the Barnegat communications antenna did not exceed -97 dBm beyond a 280 nmi range from the antenna site in any portion of the test area. As configured, this would be the maximum useable range anticipated for coverage at flight level 290. At lower flight levels this range can be expected to decrease with the 4/3 rds earth's curvative rule for line of sight propagation; at higher flight levels a corresponding increase in coverage should result.

A graphic summary of the test results is superimposed on Figure 4. A signal level versus position listing is included in Appendix A.

BARNEGAT ANTENNA TEST
DPO CALIBRATION
N 40 NOV. 4 1981

FIGURE 1

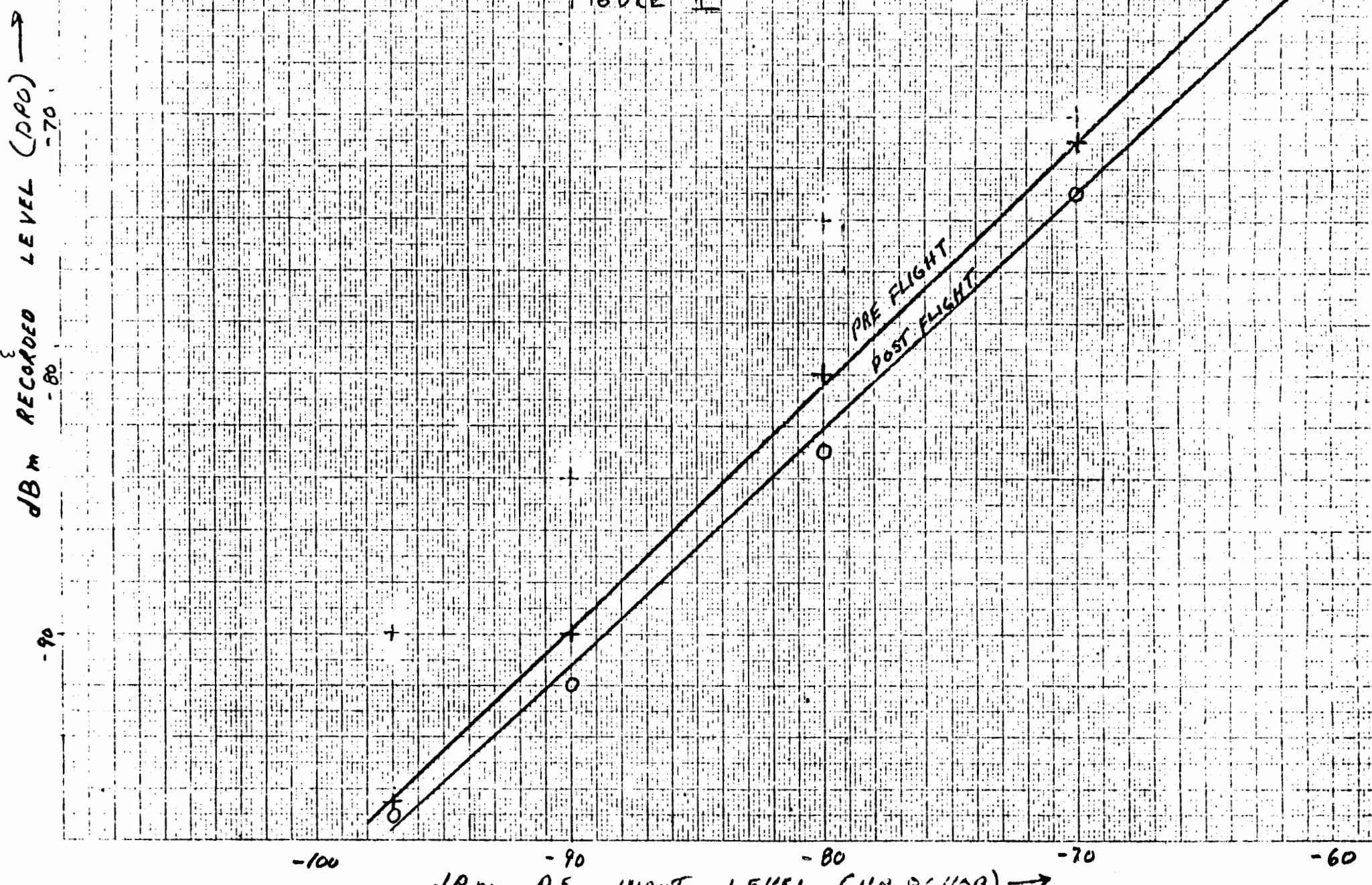


TABLE I
CALIBRATION AND FLIGHT TEST RUNS

<u>Run No.</u>	<u>Type</u>	<u>Sig. Source</u>	<u>Approach/Dep. Orbit</u>	<u>True Pos. Start</u>	<u>(°/nmi) End</u>
	Cal.	Sig. Gen.	HP 8640B		
1	Test	Barnegat	Departure	135/187	135/320
2	Test	Barnegat	Approach	135/320	135/290
3	Test	Barnegat	290 nmi arc	135/290	175/290
4	Test	Barnegat	Approach	175/290	175/240
6	Test	Barnegat	250 nmi arc	175/250	193/235
6 (con't)	Test	Barnegat	Return to CHAMP	193/235	137/185
7	Test Cal.	Barnegat Sig. Gen	B24 Route HP 8640B	137/185	180/135

TEST DATE
WEDNESDAY 11/4/81

WARNING AREA - FREQUENCY

HF 4373 USB
UHF 233.7
VHF 127.65

39°44'55"
74°23'21"

WIA
107A
11/4/81
21-2300Z
FL 270-320
EVENT# A0407

215° M / 375 N. MILES
RUN 8

135° M / 375 N. MILES
RUN 1

REQUESTED ALTITUDE - FL290

11/4/81
2200-0500Z
FL 240-340
EVENT# C08TAC12

WIA
122
10500Z
RUN 6

335 N. MILE ARC
RUN 3

375 N. MILE

435 N. MILE ARC

175° M

RUN #	APPROX. TIME	
	START	STOP
1	2055	2150
2	2150	2155
3	2155	2227
4	2227	2242
5	2242	2257
6	2257	2329
7	2329	2335
8	2335	2420

EXTENDED RANGE HIGH ALTITUDE-VHF FREQUENCY AT BARNEGAT, N. J.

FLIGHT TEST PROFILE (PLANNED)

FIGURE 3



APPENDIX A

87.6521	135.318	-67	87.6521	135.318	-68
87.6521	135.318	-68	87.6521	135.318	-68
87.6521	135.318	-68	87.6521	135.318	-68
87.6521	135.318	-68	87.6521	135.318	-68
87.6521	135.318	-74	87.6521	135.318	-74
87.6521	135.318	-74	87.6521	135.318	-74
87.6521	135.318	-74	87.6521	135.318	-74
87.6521	135.318	-74	87.6521	135.318	-74
87.6521	135.318	-74	87.6521	135.318	-74
87.6521	135.25	-74	87.6521	135.318	-74
107.527	135.114	-74	97.5896	135.182	-74
127.402	134.978	-74	117.465	135.046	-74
147.277	134.842	-74	137.34	134.91	-74
167.152	134.706	-74	157.215	134.774	-74
187.027	134.641	-74	187.027	134.638	-74
187.347	134.645	-74	187.187	134.643	-75
187.667	134.65	-75	187.507	134.648	-75
187.987	134.655	-75	187.827	134.653	-75
188.306	134.66	-75	188.146	134.657	-75
188.626	134.652	-75	188.626	134.662	-75
188.838	134.632	-75	188.732	134.642	-75
189.05	134.613	-75	188.944	134.623	-75
189.262	134.593	-75	189.156	134.603	-75
189.474	134.574	-75	189.368	134.584	-75
189.686	134.564	-76	189.686	134.564	-76
189.989	134.564	-76	189.838	134.564	-76
190.293	134.564	-76	190.141	134.564	-76
190.597	134.564	-75	190.445	134.564	-76
190.9	134.564	-76	190.748	134.564	-76
191.204	134.564	-75	191.204	134.564	-75
191.204	134.564	-75	191.204	134.564	-76
191.204	134.564	-75	191.204	134.564	-75
191.204	134.564	-75	191.204	134.564	-75
191.204	134.564	-75	191.204	134.564	-75
191.204	134.564	-75	191.204	134.564	-75
191.204	134.567	-75	191.48	134.571	-75

191.756	134.574	-75
192.309	134.58	-75
192.86	134.587	-75
193.412	134.593	-75
193.964	134.591	-75
194.305	134.579	-75
194.646	134.568	-75
194.986	134.556	-75
195.327	134.545	-75
195.668	134.544	-75
195.876	134.553	-76
196.088	134.563	-76
196.298	134.572	-76
196.508	134.582	-76
196.718	134.586	-77
197.021	134.586	-77
197.325	134.586	-77
197.629	134.586	-77
197.932	134.586	-77
198.236	134.58	-78
198.548	134.568	-78
198.86	134.556	-78
199.172	134.543	-78
199.484	134.531	-79
199.796	134.528	-79
200.019	134.534	-79
200.241	134.539	-79
200.464	134.545	-79
200.686	134.55	-79
200.909	134.558	-80
201.149	134.568	-79
201.389	134.579	-79
201.629	134.589	-79
201.87	134.599	-79
202.11	134.604	-79

192.032	134.577	-75
192.584	134.594	-75
193.136	134.59	-75
193.964	134.597	-75
194.134	134.585	-75
194.475	134.574	-75
194.816	134.562	-75
195.157	134.55	-75
195.668	134.539	-75
195.773	134.548	-76
195.983	134.558	-76
196.193	134.567	-76
196.403	134.577	-76
196.718	134.587	-76
196.87	134.586	-77
197.173	134.586	-77
197.477	134.586	-77
197.78	134.586	-77
198.236	134.586	-78
198.392	134.574	-78
198.704	134.562	-78
199.016	134.549	-78
199.328	134.537	-79
199.796	134.525	-79
199.908	134.531	-79
200.13	134.536	-79
200.352	134.542	-79
200.575	134.547	-79
200.909	134.553	-79
201.029	134.563	-79
201.269	134.574	-79
201.509	134.584	-80
201.749	134.594	-79
202.11	134.604	-79
202.246	134.603	-80

202.383	134.602	-80	202.52	134.602	-80
202.657	134.601	-79	202.793	134.6	-80
202.93	134.6	-80	203.067	134.599	-80
203.204	134.598	-80	203.477	134.598	-80
203.477	134.592	-80	203.633	134.586	-80
203.789	134.58	-80	203.946	134.574	-80
204.102	134.568	-80	204.258	134.562	-80
204.414	134.556	-80	204.57	134.55	-80
204.726	134.544	-80	205.039	134.538	-80
205.039	134.534	-80	205.188	134.53	-80
205.338	134.526	-80	205.488	134.522	-80
205.638	134.518	-80	205.788	134.513	-80
205.938	134.509	-81	206.088	134.505	-81
206.238	134.501	-81	206.537	134.497	-81
206.537	134.502	-81	206.657	134.507	-81
206.776	134.512	-81	206.896	134.516	-81
207.015	134.521	-81	207.135	134.526	-81
207.254	134.531	-81	207.374	134.536	-81
207.493	134.54	-81	207.732	134.545	-81
207.732	134.547	-81	207.878	134.549	-80
208.023	134.55	-80	208.169	134.552	-80
208.315	134.553	-80	208.46	134.555	-80
208.606	134.557	-80	208.752	134.558	-79
208.897	134.56	-79	209.189	134.562	-79
209.189	134.554	-79	209.337	134.546	-79
209.485	134.538	-79	209.633	134.53	-78
209.781	134.522	-78	209.929	134.514	-78
210.077	134.506	-78	210.224	134.498	-78
210.372	134.49	-78	210.668	134.482	-77
210.668	134.49	-77	210.775	134.499	-77
210.883	134.507	-77	210.99	134.515	-77
211.097	134.523	-77	211.204	134.532	-77
211.311	134.54	-77	211.418	134.548	-77
211.525	134.556	-77	211.739	134.565	-76
211.739	134.561	-76	211.89	134.557	-76

212.041	134.553	-76
212.342	134.545	-76
212.643	134.538	-76
212.945	134.53	-75
213.246	134.52	-75
213.557	134.508	-75
213.868	134.496	-75
214.179	134.484	-75
214.49	134.472	-75
214.801	134.471	-75
215.042	134.481	-75
215.282	134.49	-75
215.522	134.5	-75
215.763	134.509	-75
216.003	134.516	-75
216.293	134.518	-75
216.583	134.521	-75
216.873	134.524	-75
217.163	134.526	-75
217.453	134.52	-75
217.751	134.505	-75
218.048	134.49	-75
218.346	134.475	-75
218.643	134.46	-75
218.941	134.457	-75
219.18	134.466	-75
219.419	134.475	-75
219.658	134.484	-75
219.897	134.493	-75
220.136	134.495	-75
220.422	134.49	-75
220.709	134.485	-76
220.995	134.48	-76
221.281	134.475	-76
221.567	134.475	-76

212.191	134.549	-76
212.493	134.541	-76
212.794	134.534	-75
213.246	134.526	-75
213.401	134.514	-75
213.712	134.502	-75
214.023	134.49	-75
214.335	134.478	-75
214.801	134.467	-75
214.921	134.476	-75
215.162	134.486	-75
215.402	134.495	-75
215.643	134.505	-75
216.003	134.514	-75
216.148	134.517	-75
216.438	134.52	-75
216.728	134.522	-75
217.018	134.525	-75
217.453	134.528	-75
217.602	134.513	-75
217.9	134.498	-75
218.197	134.482	-75
218.495	134.467	-75
218.941	134.452	-75
219.06	134.461	-75
219.299	134.47	-75
219.538	134.479	-75
219.778	134.488	-75
220.136	134.497	-75
220.279	134.492	-75
220.565	134.487	-75
220.852	134.483	-76
221.138	134.478	-76
221.567	134.473	-76
221.728	134.477	-76

221.838	134.478	-76
222.203	134.482	-76
222.529	134.486	-77
222.849	134.489	-77
223.17	134.495	-77
223.38	134.503	-77
223.59	134.511	-77
223.8	134.519	-77
224.01	134.527	-78
224.22	134.524	-78
224.517	134.509	-78
224.813	134.494	-78
225.109	134.478	-78
225.405	134.463	-78
225.702	134.46	-79
225.941	134.469	-79
226.18	134.477	-79
226.419	134.486	-80
226.658	134.494	-80
226.897	134.493	-80
227.212	134.483	-80
227.526	134.472	-80
227.84	134.461	-82
228.154	134.451	-82
228.468	134.453	-83
228.682	134.468	-83
228.896	134.483	-83
229.11	134.498	-84
229.325	134.513	-85
229.539	134.51	-85
229.868	134.49	-85
230.237	134.469	-86
230.586	134.449	-86
230.934	134.428	-86
231.283	134.422	-86

222.048	134.48	-76
222.368	134.484	-76
222.689	134.487	-77
223.17	134.491	-77
223.275	134.499	-77
223.485	134.507	-77
223.695	134.515	-77
223.905	134.523	-77
224.22	134.531	-78
224.369	134.516	-78
224.665	134.501	-78
224.961	134.486	-78
225.257	134.471	-78
225.702	134.456	-78
225.821	134.464	-79
226.06	134.473	-79
226.3	134.482	-79
226.539	134.49	-80
226.897	134.499	-80
227.055	134.488	-80
227.369	134.477	-81
227.693	134.467	-82
227.997	134.456	-82
228.468	134.445	-82
228.575	134.46	-83
228.789	134.475	-83
229.003	134.49	-84
229.218	134.506	-84
229.539	134.521	-84
229.713	134.5	-85
230.062	134.479	-85
230.411	134.459	-86
230.76	134.438	-86
231.283	134.418	-86
231.402	134.426	-81

231.521	134.43	-84
231.759	134.438	-88
231.997	134.446	-88
232.234	134.454	-89
232.472	134.454	-85
232.772	134.447	-91
233.073	134.439	-92
233.373	134.432	-93
233.673	134.424	-95
233.973	134.424	-98
234.214	134.433	-100
234.455	134.442	-99
234.696	134.45	-99
234.936	134.459	-97
235.177	134.459	-95
235.477	134.452	-93
235.778	134.444	-92
236.078	134.436	-91
236.378	134.429	-90
236.678	134.423	-90
236.994	134.419	-89
237.309	134.415	-88
237.624	134.411	-87
237.939	134.407	-87
238.255	134.408	-86
238.465	134.416	-85
238.676	134.423	-85
238.886	134.431	-84
239.097	134.438	-99
239.308	134.442	-87
239.612	134.441	-84
239.916	134.44	-84
240.22	134.44	-84
240.525	134.439	-83
240.829	134.441	-84

231.64	134.434	-88
231.878	134.442	-88
232.115	134.45	-88
232.472	134.458	-87
232.622	134.451	-90
232.923	134.443	-91
233.223	134.435	-92
233.523	134.428	-94
233.973	134.42	-96
234.094	134.429	-96
234.335	134.437	-99
234.575	134.446	-99
234.816	134.454	-98
235.177	134.463	-97
235.327	134.455	-94
235.627	134.448	-93
235.928	134.44	-92
236.228	134.433	-91
236.678	134.425	-90
236.836	134.421	-89
237.151	134.417	-88
237.467	134.413	-88
237.782	134.409	-87
238.255	134.405	-86
238.36	134.412	-85
238.571	134.42	-85
238.781	134.427	-85
238.992	134.434	-84
239.308	134.442	-92
239.46	134.441	-85
239.764	134.441	-84
240.068	134.44	-83
240.373	134.439	-83
240.829	134.439	-83
240.94	134.443	-96

241.052	134.445	-97	241.163	134.447	-98
241.275	134.449	-98	241.386	134.451	-98
241.498	134.453	-97	241.609	134.456	-98
241.721	134.458	-95	241.944	134.46	-86
241.944	134.459	-85	242.13	134.457	-85
242.317	134.456	-85	242.504	134.455	-84
242.69	134.454	-84	242.877	134.452	-84
243.064	134.451	-85	243.25	134.45	-84
243.437	134.449	-85	243.61	134.447	-85
243.81	134.442	-100	243.967	134.437	-99
244.123	134.432	-98	244.28	134.426	-98
244.436	134.421	-97	244.593	134.416	-83
244.749	134.411	-84	244.905	134.405	-84
245.062	134.4	-84	245.375	134.395	-84
245.375	134.397	-84	245.486	134.399	-84
245.598	134.401	-84	245.709	134.403	-84
245.821	134.405	-84	245.932	134.407	-84
246.044	134.409	-84	246.155	134.411	-84
246.267	134.413	-85	246.49	134.415	-85
246.49	134.408	-85	246.638	134.401	-85
246.786	134.394	-85	246.935	134.387	-86
247.083	134.38	-86	247.231	134.373	-86
247.379	134.366	-86	247.528	134.359	-86
247.676	134.352	-86	247.972	134.345	-87
247.972	134.351	-88	248.086	134.356	-87
248.199	134.362	-88	248.313	134.367	-89
248.426	134.372	-89	248.54	134.378	-90
248.653	134.383	-90	248.767	134.388	-90
248.88	134.394	-91	249.107	134.399	-91
249.107	134.397	-92	249.266	134.395	-93
249.424	134.393	-93	249.583	134.391	-93
249.741	134.39	-94	249.9	134.388	-94
250.058	134.386	-95	250.217	134.384	-95
250.375	134.382	-95	250.692	134.38	-96
250.692	134.38	-99	250.83	134.379	-99

250.968	134.378	-98	251.106	134.378	-88
251.243	134.377	-88	251.381	134.376	-88
251.519	134.376	-89	251.657	134.375	-88
251.795	134.375	-89	252.071	134.374	-100
252.071	134.369	-98	252.227	134.364	-98
252.383	134.359	-97	252.54	134.353	-93
252.696	134.348	-95	252.853	134.343	-96
253.009	134.338	-94	253.166	134.333	-89
253.322	134.328	-89	253.635	134.323	-90
253.635	134.325	-94	253.747	134.327	-93
253.859	134.329	-93	253.97	134.331	-93
254.082	134.333	-94	254.193	134.335	-93
254.305	134.337	-92	254.416	134.339	-92
254.528	134.341	-92	254.751	134.343	-100
254.751	134.348	-92	254.864	134.353	-92
254.978	134.358	-91	255.091	134.363	-91
255.205	134.369	-91	255.318	134.374	-91
255.432	134.379	-91	255.546	134.384	-91
255.659	134.389	-91	255.886	134.394	-90
255.886	134.387	-91	256.083	134.38	-90
256.281	134.372	-90	256.478	134.365	-91
256.675	134.357	-90	256.872	134.35	-91
257.07	134.343	-92	257.267	134.335	-88
257.464	134.328	-89	257.859	134.32	-91
257.859	134.325	-92	257.958	134.33	-92
258.057	134.335	-92	258.156	134.34	-92
258.255	134.345	-92	258.354	134.35	-93
258.454	134.354	-93	258.553	134.359	-93
258.652	134.364	-93	258.85	134.369	-94
258.85	134.364	-94	259.007	134.359	-96
259.163	134.354	-95	259.32	134.349	-97
259.476	134.344	-95	259.633	134.339	-97
259.79	134.334	-96	259.946	134.329	-97

260.103	134.324	-98	260.416	134.319	-92
260.416	134.321	-99	260.527	134.323	-99
260.639	134.324	-98	260.751	134.326	-99
260.862	134.328	-100	260.974	134.33	-100
261.085	134.332	-101	261.197	134.334	-101
261.308	134.336	-99	261.532	134.338	-100
261.532	134.333	-103	261.688	134.328	-93
261.845	134.323	-93	262.001	134.318	-93
262.158	134.313	-93	262.315	134.308	-93
262.471	134.303	-102	262.628	134.298	-101
262.784	134.293	-102	263.098	134.288	-102
263.098	134.291	-103	263.203	134.294	-101
263.308	134.298	-102	263.414	134.301	-103
263.519	134.304	-100	263.625	134.308	-103
263.73	134.311	-101	263.835	134.314	-101
263.941	134.318	-100	264.152	134.321	-100
264.152	134.322	-100	264.298	134.323	-99
264.444	134.324	-99	264.59	134.325	-99
264.736	134.326	-99	264.882	134.327	-95
265.028	134.328	-93	265.174	134.329	-99
265.32	134.33	-97	265.612	134.331	-98
265.612	134.327	-96	265.763	134.324	-93
265.913	134.32	-95	266.064	134.317	-96
266.214	134.313	-96	266.364	134.31	-94
266.515	134.306	-95	266.665	134.303	-94

266.816	134.299	-94
267.117	134.299	-94
267.356	134.306	-92
267.596	134.313	-93
267.835	134.32	-92
268.075	134.327	-91
268.314	134.326	-92
268.6	134.315	-92
268.886	134.305	-91
269.172	134.295	-92
269.458	134.285	-91
269.744	134.284	-89
269.984	134.291	-92
270.223	134.298	-90
270.463	134.305	-91
270.703	134.312	-91
270.943	134.306	-91
271.319	134.288	-90
271.696	134.271	-91
272.073	134.253	-91
272.45	134.235	-91
272.827	134.228	-91
273.051	134.232	-91
273.274	134.235	-89
273.497	134.239	-90
273.72	134.242	-91
273.944	134.238	-90
274.297	134.227	-90
274.651	134.215	-90
275.005	134.203	-91
275.358	134.192	-91
275.712	134.191	-91
275.968	134.201	-90
276.224	134.211	-91
276.48	134.221	-90

267.117	134.296	-93
267.236	134.303	-94
267.476	134.31	-93
267.716	134.317	-93
267.955	134.324	-92
268.314	134.331	-92
268.457	134.321	-92
268.743	134.31	-91
269.029	134.3	-91
269.315	134.29	-92
269.744	134.28	-88
269.864	134.287	-92
270.104	134.294	-92
270.343	134.301	-91
270.583	134.308	-91
270.943	134.315	-91
271.131	134.297	-91
271.508	134.28	-90
271.885	134.262	-91
272.262	134.244	-91
272.827	134.226	-91
272.939	134.23	-91
273.162	134.233	-90
273.386	134.237	-90
273.609	134.241	-91
273.944	134.244	-90
274.121	134.232	-90
274.474	134.221	-90
274.828	134.209	-90
275.181	134.197	-91
275.712	134.186	-90
275.84	134.196	-91
276.096	134.206	-91
276.352	134.216	-91
276.608	134.225	-91

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276.736	134.23	-91	276.992	134.235	-90
276.992	134.23	-91	277.135	134.225	-90
277.277	134.22	-91	277.419	134.215	-91
277.562	134.211	-92	277.704	134.206	-91
277.846	134.201	-91	277.988	134.196	-92
278.131	134.191	-91	278.415	134.186	-92
278.415	134.19	-92	278.515	134.194	-93
278.614	134.199	-93	278.713	134.203	-92
278.812	134.208	-93	278.911	134.212	-93
279.01	134.217	-93	279.11	134.221	-93
279.209	134.226	-93	279.407	134.23	-94
279.407	134.227	-94	279.558	134.223	-95
279.708	134.22	-95	279.859	134.217	-95
280.009	134.213	-95	280.16	134.21	-96
280.31	134.206	-97	280.461	134.203	-96
280.611	134.2	-97	280.912	134.196	-96
280.912	134.193	-96	281.077	134.19	-98
281.242	134.187	-96	281.407	134.184	-99
281.572	134.18	-97	281.737	134.177	-98
281.902	134.174	-99	282.067	134.171	-97
282.232	134.168	-96	282.562	134.165	-86
282.562	134.166	-84	282.673	134.168	-99
282.785	134.17	-99	282.897	134.172	-99
283.008	134.173	-99	283.12	134.175	-98
283.232	134.177	-98	283.344	134.178	-99
283.455	134.18	-98	283.679	134.182	-98
283.679	134.178	-97	283.829	134.175	-98
283.98	134.172	-84	284.13	134.168	-86
284.281	134.165	-82	284.431	134.162	-85
284.582	134.158	-97	284.732	134.155	-97
284.883	134.152	-96	285.184	134.148	-95
285.184	134.153	-95	285.298	134.158	-88
285.412	134.162	-95	285.527	134.167	-95
285.641	134.172	-95	285.756	134.176	-95
285.87	134.181	-96	285.985	134.186	-95

286.099	134.19	-96	286.328	134.195	-96
286.328	134.196	-96	286.473	134.197	-96
286.619	134.197	-96	286.764	134.198	-97
286.91	134.199	-96	287.056	134.2	-96
287.201	134.2	-96	287.347	134.201	-97
287.492	134.202	-97	287.783	134.202	-96
287.783	134.198	-98	287.94	134.193	-97
288.097	134.188	-97	288.254	134.184	-98
288.411	134.179	-98	288.567	134.174	-98
288.724	134.17	-98	288.881	134.165	-99
289.038	134.16	-99	289.351	134.156	-100
289.351	134.151	-100	289.494	134.146	-99
289.636	134.141	-101	289.778	134.136	-100
289.921	134.132	-102	290.063	134.127	-101
290.205	134.122	-102	290.348	134.117	-101
290.49	134.112	-101	290.775	134.107	-101
290.775	134.111	-102	290.895	134.114	-99
291.015	134.117	-102	291.135	134.12	-101
291.255	134.123	-99	291.375	134.126	-101
291.494	134.129	-98	291.614	134.133	-101
291.734	134.136	-100	291.974	134.139	-100
291.974	134.14	-100	292.135	134.141	-101
292.296	134.142	-101	292.457	134.143	-101
292.617	134.144	-101	292.778	134.145	-101

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292.939	134.146	-103	293.1	134.147	-101
293.261	134.148	-101	293.582	134.149	-99
293.582	134.152	-99	293.702	134.155	-100
293.822	134.159	-99	293.942	134.162	-99
294.062	134.165	-100	294.182	134.168	-100
294.302	134.171	-99	294.422	134.174	-100
294.541	134.177	-101	294.781	134.18	-100
294.781	134.182	-99	294.893	134.183	-102
295.005	134.185	-99	295.117	134.186	-100
295.228	134.188	-100	295.34	134.189	-100
295.452	134.191	-98	295.564	134.193	-98
295.675	134.194	-101	295.899	134.196	-99
295.899	134.193	-99	296.064	134.19	-99
296.229	134.186	-99	296.394	134.183	-98
296.559	134.18	-98	296.724	134.177	-99
296.869	134.174	-99	297.054	134.171	-100
297.219	134.168	-99	297.549	134.165	-98
297.549	134.168	-96	297.669	134.171	-100
297.789	134.174	-97	297.909	134.177	-98
298.029	134.18	-97	298.149	134.183	-97
298.269	134.186	-98	298.389	134.189	-98
298.509	134.192	-99	298.749	134.195	-99
298.749	134.196	-99	298.861	134.198	-100

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298.973	134.2	-99	299.005	134.201	-101
299.197	134.203	-101	299.308	134.204	-99
299.42	134.206	-101	299.532	134.207	-102
299.644	134.209	-101	299.867	134.21	-100
299.867	134.211	-101	300.028	134.212	-100
300.188	134.213	-101	300.348	134.213	-100
300.508	134.214	-99	300.668	134.215	-100
300.828	134.216	-102	300.988	134.217	-103
301.148	134.217	-101	301.469	134.218	-100
301.469	134.22	-102	301.595	134.221	-99
301.721	134.223	-102	301.847	134.225	-102
301.973	134.226	-99	302.1	134.228	-101
302.226	134.23	-97	302.352	134.231	-96
302.478	134.233	-98	302.731	134.235	-101
302.731	134.229	-102	302.895	134.223	-103
303.058	134.218	-102	303.222	134.212	-103
303.386	134.206	-102	303.55	134.201	-103
303.714	134.195	-100	303.878	134.189	-101
304.042	134.184	-103	304.369	134.178	-102

304.369	134.182	-100	304.483	134.186	-102
304.597	134.19	-102	304.711	134.195	-102
304.825	134.199	-103	304.938	134.203	-104
305.052	134.207	-101	305.166	134.211	-103
305.28	134.215	-102	305.507	134.22	-101
305.507	134.22	-96	305.682	134.221	-95
305.857	134.222	-95	306.031	134.223	-93
306.206	134.224	-100	306.38	134.225	-102
306.555	134.226	-102	306.73	134.227	-101
306.904	134.228	-103	307.254	134.229	-103
307.254	134.231	-94	307.359	134.234	-103
307.465	134.237	-103	307.57	134.239	-101
307.676	134.242	-100	307.781	134.245	-101
307.887	134.248	-102	307.993	134.25	-103
308.098	134.253	-103	308.309	134.256	-102
308.309	134.248	-101	308.464	134.241	-102
308.619	134.234	-84	308.774	134.227	-84
308.929	134.22	-87	309.084	134.213	-101
309.239	134.205	-102	309.394	134.198	-101

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309.549	134.191	-101	309.859	134.184	-101
309.859	134.185	-101	309.985	134.187	-102
310.111	134.189	-100	310.237	134.19	-101
310.364	134.192	-101	310.49	134.193	-99
310.616	134.195	-101	310.742	134.197	-100
310.869	134.198	-101	311.121	134.2	-101
311.121	134.204	-99	311.25	134.208	-100
311.378	134.212	-101	311.507	134.217	-101
311.635	134.221	-100	311.763	134.225	-100
311.892	134.229	-100	312.02	134.233	-104
312.149	134.238	-103	312.406	134.242	-103
312.406	134.24	-102	312.564	134.238	-103
312.722	134.236	-102	312.88	134.234	-103
313.038	134.232	-105	313.196	134.23	-102
313.354	134.228	-102	313.513	134.226	-102
313.671	134.224	-102	313.987	134.222	-105
313.987	134.226	-103	314.101	134.23	-103
314.215	134.234	-104	314.329	134.238	-104

314.443	134.242	-103	314.557	134.246	-103
314.671	134.25	-103	314.784	134.254	-103
314.898	134.258	-101	315.126	134.262	-103
315.126	134.265	-103	315.246	134.267	-102
315.366	134.27	-103	315.487	134.273	-103
315.607	134.276	-102	315.727	134.278	-101
315.847	134.281	-102	315.967	134.284	-103
316.087	134.287	-102	316.328	134.289	-104
316.328	134.284	-103	316.491	134.278	-103
316.654	134.272	-103	316.817	134.267	-103
316.98	134.261	-103	317.143	134.255	-102
317.306	134.25	-104	317.47	134.244	-101
317.633	134.238	-100	317.959	134.233	-102
317.959	134.234	-99	318.085	134.236	-102
318.212	134.237	-103	318.338	134.239	-102
318.464	134.24	-100	318.591	134.242	-101
318.717	134.243	-101	318.843	134.245	-104
318.97	134.246	-103	319.222	134.248	-102

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319.222 134.256 -101

319.431 134.274 -103

319.639 134.291 -103

319.847 134.309 -101

320.055 134.326 -98

RN= 2

INPUT DESIRED RUN NO.

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319.326 134.265 -103

319.535 134.283 -101

319.743 134.3 -101

319.951 134.318 -99

320.263 134.335 -98

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RUN NO. 2 OCEANIC FLT., 11-4-81
132.15

FREQUENCY=

HMI	AZIMUTH	DBM	HMI	AZIMUTH	DBM
317.182	134.427	-104	317.113	134.52	-101
317.045	134.612	-103	316.977	134.704	-101
316.909	134.796	-103	316.841	134.898	-103
316.773	134.98	-102	316.704	135.073	-103
316.636	135.165	-102	316.5	135.257	-102
316.5	135.239	-102	316.457	135.221	-101
316.413	135.203	-100	316.37	135.185	-103
316.326	135.167	-98	316.283	135.149	-98
316.239	135.132	-102	316.196	135.114	-102
316.153	135.096	-103	316.066	135.078	-103
316.066	135.056	-103	316.027	135.034	-103
315.987	135.012	-97	315.948	134.99	-103
315.909	134.969	-102	315.87	134.947	-102
315.831	134.925	-103	315.791	134.903	-103
315.752	134.881	-103	315.674	134.859	-104
315.674	134.843	-99	315.626	134.826	-103

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315.579	134.809	-103	315.531	134.792	-102
315.483	134.775	-103	315.436	134.759	-103
315.388	134.742	-104	315.34	134.725	-103
315.293	134.708	-100	315.197	134.692	-100
315.197	134.675	-103	315.086	134.659	-100
314.975	134.642	-94	314.864	134.626	-91
314.754	134.61	-101	314.643	134.593	-99
314.532	134.577	-99	314.421	134.561	-103
314.31	134.544	-103	314.088	134.528	-101
314.088	134.519	-102	313.998	134.511	-102
313.907	134.502	-102	313.817	134.493	-102
313.727	134.485	-88	313.636	134.476	-88
313.546	134.468	-87	313.456	134.459	-89
313.365	134.45	-86	313.185	134.442	-90
313.185	134.436	-100	313.062	134.431	-102
312.939	134.426	-102	312.816	134.421	-101
312.694	134.415	-102	312.571	134.41	-103
312.448	134.405	-103	312.326	134.4	-99
312.203	134.394	-102	311.957	134.389	-101
311.957	134.384	-86	311.849	134.379	-89
311.741	134.374	-101	311.633	134.369	-103

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311.524	134.363	-102	311.416	134.358	-102
311.308	134.353	-90	311.199	134.348	-94
311.091	134.343	-102	310.875	134.338	-100
310.875	134.336	-101	310.763	134.335	-102
310.651	134.334	-103	310.539	134.332	-100
310.427	134.331	-102	310.315	134.33	-101
310.203	134.328	-102	310.091	134.327	-102
309.98	134.326	-101	309.756	134.324	-102
309.756	134.328	-102	309.647	134.332	-91
309.539	134.336	-102	309.43	134.34	-101
309.322	134.343	-100	309.213	134.347	-101
309.105	134.351	-101	308.996	134.355	-97
308.888	134.359	-102	308.671	134.363	-100
308.671	134.364	-100	308.546	134.365	-102
308.421	134.366	-98	308.296	134.367	-103
308.171	134.368	-102	308.046	134.369	-84
307.921	134.37	-86	307.796	134.371	-102
307.671	134.372	-102	307.421	134.373	-100
307.421	134.369	-103	307.349	134.366	-102
307.277	134.362	-103	307.205	134.358	-102

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307.134	134.355	-102	307.062	134.351	-101
306.99	134.348	-102	306.918	134.344	-100
306.846	134.341	-102	306.703	134.337	-101
306.703	134.34	-100	306.587	134.342	-101
306.471	134.345	-100	306.355	134.347	-99
306.239	134.35	-100	306.123	134.352	-99
306.007	134.355	-98	305.891	134.357	-99
305.774	134.36	-100	305.542	134.363	-98
305.542	134.363	-99	305.375	134.363	-96
305.208	134.364	-98	305.041	134.364	-93
304.874	134.365	-91	304.707	134.365	-92
304.54	134.366	-93	304.373	134.366	-99
304.205	134.367	-99	303.871	134.367	-98
303.871	134.362	-99	303.792	134.357	-98
303.713	134.352	-99	303.633	134.347	-101
303.554	134.343	-99	303.475	134.338	-100
303.396	134.333	-99	303.316	134.328	-99
303.237	134.323	-100	303.078	134.318	-100
303.078	134.323	-100	302.964	134.328	-100
302.849	134.333	-99	302.734	134.339	-99
302.62	134.344	-100	302.505	134.349	-100
302.39	134.354	-99	302.275	134.359	-99
302.161	134.364	-99	301.931	134.37	-98
301.931	134.371	-96	301.835	134.372	-96
301.739	134.374	-99	301.643	134.375	-97

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301.547	134.376	-99	301.451	134.378	-100
301.355	134.379	-99	301.259	134.38	-102
301.163	134.382	-99	300.971	134.383	-100
300.971	134.391	-99	300.859	134.399	-101
300.747	134.407	-100	300.635	134.414	-99
300.523	134.422	-98	300.411	134.43	-99
300.298	134.438	-99	300.186	134.446	-99
300.074	134.454	-99	299.85	134.462	-98
299.85	134.464	-100	299.748	134.467	-99
299.646	134.47	-99	299.543	134.472	-99
299.441	134.475	-99	299.339	134.478	-99
299.237	134.48	-100	299.134	134.483	-98
299.032	134.486	-100	298.828	134.488	-99
298.828	134.491	-99	298.739	134.494	-98
298.651	134.497	-101	298.562	134.499	-99
298.473	134.502	-99	298.385	134.505	-101
298.296	134.508	-101	298.208	134.51	-100
298.119	134.513	-99	297.942	134.516	-100
297.942	134.525	-99	297.824	134.534	-100
297.706	134.544	-99	297.587	134.553	-100
297.469	134.562	-98	297.351	134.571	-100
297.233	134.581	-96	297.115	134.59	-96
296.997	134.599	-100	296.76	134.608	-100
296.76	134.61	-100	296.679	134.612	-100

296.597	134.613	-94	296.515	134.615	-94
296.434	134.617	-94	296.352	134.618	-102
296.271	134.62	-100	296.189	134.621	-100
296.108	134.623	-99	295.944	134.625	-101
295.944	134.623	-101	295.817	134.621	-100
295.69	134.619	-102	295.563	134.618	-100
295.436	134.616	-101	295.309	134.614	-90
295.183	134.613	-90	295.055	134.611	-87
294.929	134.609	-91	294.675	134.607	-92
294.675	134.612	-100	294.567	134.616	-103
294.459	134.62	-100	294.351	134.624	-102
294.244	134.628	-102	294.136	134.633	-100
294.028	134.637	-100	293.921	134.641	-102
293.813	134.645	-102	293.598	134.649	-102

RN= 3
 INPUT DESIRED RUN NO.
 ?

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RUN NO. 3 OCEANIC FLT., 11-4-81

132.15

FREQUENCY=

NMI	AZIMUTH	DBM	NMI	AZIMUTH	DBM
289.582	134.716	-102	289.527	134.783	-101
289.471	134.85	-103	289.416	134.916	-100
289.361	134.983	-101	289.305	135.05	-99
289.25	135.116	-99	289.194	135.183	-91
289.139	135.25	-98	289.028	135.317	-100
289.028	135.344	-100	288.994	135.371	-101
289.959	135.398	-101	288.925	135.425	-101
288.89	135.452	-96	288.856	135.479	-94
288.821	135.507	-94	288.787	135.534	-92
288.752	135.561	-92	288.683	135.588	-91
288.683	135.61	-91	288.687	135.632	-87
288.692	135.654	-99	288.696	135.676	-87
288.7	135.698	-91	288.704	135.72	-92
288.709	135.742	-91	288.713	135.764	-99
288.717	135.786	-98	288.726	135.808	-98
288.726	135.83	-99	288.744	135.852	-98
288.763	135.874	-99	288.781	135.896	-98
288.8	135.918	-98	288.818	135.94	-98
288.836	135.962	-99	288.855	135.984	-98
288.873	136.006	-98	288.91	136.028	-97
288.91	136.047	-98	288.926	136.067	-98
288.943	136.086	-97	288.959	136.105	-96
288.975	136.124	-96	288.992	136.143	-97
289.008	136.162	-97	289.024	136.181	-97
289.041	136.201	-97	289.073	136.22	-97
289.073	136.276	-96	289.117	136.333	-97

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289.16	136.389	-98	289.204	136.446	-97
289.247	136.502	-97	289.291	136.559	-97
289.334	136.615	-96	289.378	136.672	-98
289.421	136.728	-96	289.508	136.785	-97
289.508	136.808	-99	289.508	136.831	-99
289.508	136.854	-98	289.508	136.877	-99
289.507	136.901	-100	289.507	136.924	-99
289.507	136.947	-100	289.507	136.97	-99
289.506	136.993	-98	289.506	137.017	-100
289.506	137.043	-101	289.524	137.069	-101
289.542	137.095	-101	289.56	137.121	-90
289.578	137.148	-94	289.596	137.174	-101
289.614	137.2	-85	289.633	137.226	-86
289.651	137.253	-89	289.687	137.279	-91
289.687	137.297	-91	289.725	137.314	-100
289.763	137.332	-100	289.801	137.35	-101
289.839	137.368	-100	289.878	137.386	-100
289.916	137.403	-91	289.954	137.421	-91
289.992	137.439	-90	290.068	137.457	-91
290.068	137.488	-89	290.064	137.52	-92
290.059	137.551	-90	290.055	137.583	-88
290.05	137.614	-100	290.045	137.646	-98
290.041	137.677	-99	290.036	137.709	-97
290.032	137.74	-95	290.023	137.772	-99
290.023	137.785	-99	290.065	137.799	-98
290.106	137.812	-89	290.148	137.826	-98
290.19	137.839	-99	290.232	137.853	-99
290.274	137.866	-99	290.316	137.88	-98
290.358	137.893	-96	290.442	137.907	-98

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290.442 137.934 -99
 290.47 137.989 -99
 290.499 138.044 -98
 290.527 138.099 -98
 290.555 138.154 -97
 290.584 138.197 -97
 290.657 138.226 -96
 290.73 138.256 -96
 290.803 138.286 -95
 290.876 138.315 -95
 290.949 138.363 -94
 290.933 138.429 -95
 290.917 138.494 -96
 290.901 138.56 -97
 290.885 138.625 -98
 290.868 138.681 -99
 290.933 138.727 -98

 290.998 138.773 -99
 291.062 138.82 -99

 291.127 138.866 -99

 291.192 138.904 -74
 291.268 138.933 -97
 291.344 138.963 -98
 291.421 138.993 -75
 291.497 139.022 -74
 291.573 139.078 -82
 291.609 139.16 -84

 291.644 139.241 -98

 291.679 139.323 -98
 291.714 139.405 -100

290.456 137.962 -98
 290.484 138.017 -99
 290.513 138.072 -87
 290.541 138.127 -98
 290.584 138.182 -98
 290.62 138.211 -97
 290.693 138.241 -97
 290.767 138.271 -95
 290.84 138.3 -92
 290.949 138.33 -95
 290.941 138.396 -94
 290.925 138.461 -95
 290.909 138.527 -97
 290.893 138.593 -97
 290.868 138.658 -97
 290.901 138.704 -99
 290.965 138.75 -100

 291.03 138.796 -99
 291.095 138.843 -100

 291.192 138.889 -100

 291.23 138.918 -99
 291.306 138.948 -97
 291.382 138.978 -78
 291.459 139.008 -79
 291.573 139.037 -80
 291.591 139.119 -72
 291.626 139.201 -100

 291.662 139.282 -100

 291.697 139.364 -99
 291.75 139.446 -99

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291.75	139.46	-99	291.788	139.475	-98
291.826	139.489	-97	291.864	139.504	-99
291.902	139.519	-98	291.94	139.533	-97
291.978	139.548	-99	292.016	139.563	-99
292.054	139.577	-98	292.13	139.592	-99
292.13	139.623	-78	292.116	139.655	-80
292.103	139.686	-82	292.089	139.717	-82
292.076	139.749	-101	292.062	139.78	-102
292.048	139.812	-100	292.035	139.843	-101
292.021	139.874	-101	291.994	139.906	-100
291.994	139.926	-100	292.012	139.946	-101
292.03	139.966	-100	292.047	139.987	-102
292.065	140.007	-102	292.082	140.027	-99
292.1	140.047	-103	292.118	140.068	-102
292.135	140.088	-102	292.171	140.108	-101
292.171	140.128	-103	292.203	140.149	-102
292.235	140.169	-91	292.268	140.189	-82
292.3	140.209	-84	292.333	140.229	-101
292.365	140.249	-102	292.397	140.27	-101
292.43	140.29	-103	292.495	140.31	-102
292.495	140.337	-101	292.471	140.365	-102
292.448	140.392	-90	292.425	140.419	-91
292.401	140.447	-92	292.378	140.474	-92

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292.354	140.501	-92	292.331	140.529	-91
292.308	140.556	-102	292.261	140.583	-103
292.261	140.604	-103	292.265	140.624	-101
292.27	140.644	-102	292.274	140.665	-102
292.278	140.685	-100	292.283	140.705	-103
292.287	140.726	-103	292.291	140.746	-102
292.295	140.766	-102	292.304	140.787	-100
292.304	140.804	-89	292.32	140.822	-82
292.335	140.839	-87	292.351	140.857	-93
292.366	140.874	-102	292.382	140.891	-100
292.397	140.909	-101	292.413	140.926	-100
292.428	140.944	-100	292.459	140.961	-102
292.459	140.993	-103	292.407	141.025	-103
292.355	141.056	-103	292.303	141.088	-103
292.25	141.12	-81	292.198	141.152	-92
292.146	141.184	-92	292.094	141.215	-92
292.042	141.247	-103	291.937	141.279	-103
291.937	141.295	-103	291.944	141.311	-103
291.951	141.327	-103	291.959	141.343	-102
291.966	141.36	-101	291.973	141.376	-90
291.98	141.392	-91	291.987	141.408	-90

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291.994	141.424	-103	292.009	141.44	-100
292.009	141.464	-102	291.976	141.487	-102
291.943	141.511	-102	291.91	141.534	-91
291.878	141.558	-91	291.845	141.581	-93
291.812	141.605	-93	291.779	141.629	-100
291.746	141.652	-102	291.681	141.676	-101
291.681	141.697	-100	291.645	141.717	-87
291.608	141.738	-84	291.572	141.759	-88
291.536	141.78	-100	291.5	141.801	-100
291.464	141.822	-99	291.428	141.842	-83
291.392	141.863	-80	291.319	141.884	-100
291.319	141.901	-98	291.271	141.918	-97
291.222	141.935	-99	291.173	141.951	-97
291.125	141.968	-98	291.076	141.985	-98
291.027	142.002	-98	290.979	142.019	-99
290.93	142.036	-98	290.832	142.052	-99
290.832	142.072	-93	290.774	142.092	-93
290.716	142.112	-96	290.657	142.132	-99
290.599	142.152	-97	290.541	142.172	-96
290.482	142.192	-95	290.424	142.212	-98
290.366	142.232	-96	290.249	142.252	-96
290.249	142.277	-98	290.185	142.303	-97
290.121	142.329	-96	290.056	142.354	-97
289.992	142.38	-98	289.928	142.405	-98
289.864	142.431	-97	289.799	142.457	-97
289.735	142.482	-97	289.607	142.508	-93
289.607	142.516	-85	289.575	142.525	-89
289.544	142.533	-96	289.513	142.542	-97
289.482	142.55	-97	289.451	142.559	-96

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289.42	142.567	-96	289.389	142.575	-96
289.358	142.584	-97	289.296	142.592	-96
289.296	142.617	-96	289.223	142.641	-96
289.15	142.666	-97	289.077	142.69	-84
289.005	142.715	-80	288.932	142.739	-78
288.859	142.764	-82	288.787	142.788	-97
288.714	142.813	-96	288.568	142.837	-97
288.568	142.859	-96	288.506	142.881	-96
288.444	142.903	-95	288.382	142.924	-96
288.319	142.946	-95	288.257	142.968	-96
288.195	142.99	-95	288.133	143.011	-97
288.07	143.033	-97	287.946	143.055	-96
287.946	143.065	-97	287.925	143.075	-97
287.904	143.085	-83	287.884	143.095	-77
287.863	143.104	-76	287.842	143.114	-98
287.821	143.124	-98	287.801	143.134	-99
287.78	143.144	-97	287.739	143.154	-97
287.739	143.176	-98	287.662	143.198	-97
287.585	143.22	-97	287.509	143.241	-98
287.432	143.263	-97	287.356	143.285	-98
287.279	143.307	-98	287.203	143.329	-97
287.126	143.351	-98	286.973	143.373	-98
286.973	143.4	-96	286.906	143.428	-97
286.839	143.456	-97	286.772	143.483	-97
286.705	143.511	-96	286.638	143.539	-95
286.571	143.566	-96	286.504	143.594	-94
286.437	143.622	-94	286.303	143.65	-95
286.303	143.67	-96	286.247	143.691	-95
286.192	143.711	-95	286.136	143.732	-95
286.08	143.752	-96	286.025	143.773	-96
285.969	143.793	-96	285.913	143.814	-96
285.857	143.835	-96	285.746	143.855	-95
285.746	143.873	-95	285.686	143.891	-96
285.625	143.908	-96	285.565	143.926	-96
285.504	143.944	-95	285.444	143.961	-95

285.383	143.979	-87
285.262	144.015	-96
285.142	144.048	-97
285.062	144.081	-95
284.982	144.113	-96
284.903	144.145	-97
284.823	144.177	-86
284.744	144.214	-84
284.663	144.255	-87
284.582	144.296	-87
284.501	144.337	-87
284.421	144.378	-89
284.34	144.424	-96
284.171	144.475	-96
284.002	144.526	-96
283.834	144.577	-88
283.665	144.628	-97
283.496	144.673	-97
283.398	144.712	-97
283.3	144.751	-97
283.202	144.789	-84
283.104	144.828	-96
283.006	144.867	-96
282.908	144.906	-96
282.811	144.945	-95
282.713	144.984	-96
282.616	145.023	-97
282.519	145.054	-95
282.47	145.077	-95
282.422	145.101	-97
282.374	145.125	-97
282.326	145.148	-97
282.278	145.177	-96
282.17	145.21	-98
282.063	145.243	-97

285.323	143.997	-96
285.142	144.032	-97
285.102	144.065	-97
285.022	144.097	-96
284.943	144.129	-97
284.863	144.161	-84
284.744	144.193	-87
284.703	144.234	-86
284.623	144.275	-87
284.542	144.316	-87
284.461	144.357	-88
284.34	144.398	-86
284.256	144.449	-90
284.087	144.5	-96
283.918	144.551	-96
283.749	144.603	-88
283.496	144.654	-96
283.447	144.692	-97
283.349	144.731	-98
283.251	144.77	-88
283.153	144.809	-97
283.006	144.848	-95
282.957	144.886	-95
282.86	144.925	-93
282.762	144.964	-96
282.665	145.003	-95
282.519	145.042	-94
282.495	145.066	-97
282.446	145.089	-96
282.398	145.113	-97
282.35	145.136	-96
282.278	145.16	-96
282.224	145.193	-96
282.117	145.227	-97
282.01	145.26	-97

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281.956	145.276	-97	281.902	145.293	-97
281.849	145.31	-96	281.742	145.326	-96
281.742	145.352	-96	281.689	145.377	-97
281.635	145.403	-97	281.583	145.428	-97
281.53	145.454	-98	281.478	145.479	-99
281.425	145.504	-98	281.372	145.53	-99
281.319	145.555	-99	281.214	145.581	-95
281.214	145.61	-102	281.137	145.639	-101
281.06	145.668	-100	280.984	145.697	-100
280.907	145.726	-100	280.831	145.755	-100
280.754	145.785	-102	280.678	145.814	-102
280.601	145.843	-95	280.448	145.872	-102
280.448	145.913	-102	280.349	145.954	-101
280.25	145.995	-103	280.151	146.036	-94
280.052	146.077	-92	279.952	146.118	-94
279.853	146.159	-95	279.754	146.2	-93
279.655	146.241	-96	279.456	146.282	-95
279.456	146.306	-103	279.396	146.331	-104
279.335	146.356	-103	279.275	146.38	-104
279.214	146.405	-104	279.154	146.43	-103
279.093	146.454	-103	279.033	146.479	-103
278.972	146.503	-102	278.851	146.528	-102
278.851	146.548	-102	278.805	146.568	-102

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278.758	146.588	-101	278.711	146.608	-103
278.664	146.628	-103	278.617	146.648	-102
278.57	146.668	-102	278.523	146.687	-100
278.476	146.707	-100	278.382	146.727	-100
278.382	146.748	-101	278.345	146.77	-100
278.306	146.791	-101	278.271	146.812	-100
278.234	146.833	-98	278.197	146.854	-98
278.16	146.875	-98	278.123	146.897	-98
278.086	146.918	-98	278.012	146.939	-96
278.012	146.965	-96	277.976	146.99	-97
277.94	147.016	-96	277.903	147.042	-95
277.867	147.067	-95	277.83	147.093	-95
277.794	147.119	-96	277.757	147.144	-96
277.721	147.17	-96	277.648	147.196	-94
277.648	147.219	-96	277.631	147.243	-96
277.614	147.267	-96	277.597	147.29	-95
277.58	147.314	-95	277.563	147.338	-96
277.546	147.361	-96	277.53	147.385	-96
277.513	147.409	-96	277.479	147.432	-96
277.479	147.452	-96	277.485	147.472	-95
277.492	147.492	-96	277.498	147.512	-96
277.504	147.532	-96	277.511	147.552	-95
277.517	147.572	-96	277.524	147.591	-96
277.53	147.611	-95	277.543	147.631	-94
277.543	147.651	-96	277.55	147.671	-95
277.557	147.691	-95	277.564	147.712	-96
277.572	147.732	-96	277.579	147.752	-96
277.586	147.772	-96	277.593	147.792	-96
277.6	147.812	-96	277.614	147.832	-96

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277.614	147.854	-94	277.64	147.877	-95
277.665	147.899	-95	277.69	147.921	-95
277.715	147.943	-96	277.74	147.966	-96
277.766	147.988	-97	277.791	148.01	-96
277.816	148.032	-97	277.867	148.055	-97
277.867	148.083	-98	277.904	148.11	-98
277.94	148.138	-96	277.977	148.166	-95
278.014	148.194	-95	278.051	148.222	-94
278.088	148.25	-94	278.124	148.278	-95
278.161	148.306	-95	278.235	148.334	-95
278.235	148.352	-94	278.284	148.371	-95
278.333	148.389	-94	278.382	148.408	-95
278.431	148.426	-95	278.46	148.445	-95
278.529	148.463	-97	278.578	148.482	-89
278.628	148.5	-90	278.726	148.519	-90
278.726	148.532	-97	278.803	148.545	-96
278.879	148.558	-97	278.956	148.571	-96
279.033	148.584	-96	279.11	148.597	-97
279.187	148.611	-88	279.264	148.624	-95
279.341	148.637	-96	279.494	148.65	-97
279.494	148.734	-86	279.94	148.818	-89
280.386	148.902	-87	280.032	148.986	-90
281.278	149.07	-91	281.724	149.154	-92
282.17	149.238	-98	282.616	149.322	-87
283.062	149.407	-98	283.953	149.491	-99
283.953	149.498	-98	284.057	149.505	-99
284.162	149.512	-96	284.266	149.52	-98
284.37	149.527	-98	284.474	149.534	-98
284.578	149.542	-97	284.682	149.549	-98
284.786	149.556	-97	284.995	149.563	-98
284.995	149.581	-97	285.084	149.599	-97
285.173	149.617	-97	285.262	149.635	-97
285.35	149.653	-98	285.439	149.671	-99
285.528	149.689	-97	285.617	149.707	-96
285.706	149.725	-97	285.884	149.743	-96

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285.884	149.751	-97	285.975	149.759	-98
285.955	149.767	-98	286.157	149.774	-98
286.248	149.782	-97	286.338	149.79	-98
286.429	149.798	-97	286.52	149.805	-98
286.611	149.813	-96	286.793	149.821	-95
286.793	149.847	-98	286.883	149.873	-98
286.973	149.899	-98	287.064	149.925	-98
287.154	149.951	-98	287.245	149.977	-96
287.335	150.003	-97	287.426	150.03	-98
287.516	150.056	-98	287.697	150.082	-97
287.697	150.094	-87	287.79	150.105	-85
287.882	150.117	-86	287.975	150.129	-95
288.068	150.141	-98	288.161	150.152	-99
288.254	150.164	-99	288.346	150.176	-100
288.439	150.188	-100	288.625	150.199	-100
288.625	150.221	-102	288.678	150.243	-101
288.731	150.265	-103	288.784	150.287	-101
288.837	150.309	-100	288.891	150.33	-101
288.944	150.352	-103	288.997	150.374	-102
289.05	150.396	-98	289.156	150.418	-102
289.156	150.44	-103	289.234	150.462	-101
289.312	150.484	-100	289.39	150.506	-100
289.468	150.529	-102	289.545	150.551	-100
289.623	150.573	-99	289.701	150.595	-100

289.779	150.617	-99	289.934	150.64	-100
289.934	150.652	-102	289.999	150.665	-100
290.065	150.677	-102	290.13	150.69	-99
290.195	150.702	-100	290.26	150.715	-101
290.325	150.727	-102	290.391	150.74	-100
290.456	150.752	-101	290.586	150.765	-101
290.586	150.792	-99	290.637	150.819	-101
290.688	150.847	-98	290.739	150.874	-100
290.791	150.901	-98	290.842	150.928	-100
290.893	150.955	-99	290.944	150.983	-99
290.995	151.01	-99	291.097	151.037	-97
291.097	151.054	-98	291.165	151.071	-100
291.233	151.087	-98	291.301	151.104	-99
291.369	151.121	-99	291.438	151.137	-99
291.506	151.154	-99	291.574	151.171	-100
291.642	151.188	-100	291.778	151.204	-102
291.778	151.227	-101	291.805	151.249	-101
291.832	151.272	-101	291.859	151.294	-100
291.886	151.317	-100	291.913	151.339	-99
291.94	151.362	-100	291.967	151.384	-100
291.994	151.407	-100	292.048	151.429	-99

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292.048	151.47	-89	292.103	151.511	-91
292.158	151.552	-91	292.213	151.593	-93
292.268	151.634	-99	292.323	151.675	-100
292.378	151.716	-99	292.433	151.756	-99
292.488	151.797	-88	292.598	151.838	-91
292.598	151.859	-102	292.631	151.88	-102
292.664	151.901	-102	292.697	151.922	-102
292.73	151.942	-102	292.763	151.963	-101
292.796	151.984	-102	292.829	152.005	-101
292.862	152.026	-101	292.929	152.047	-100
292.929	152.069	-99	292.934	152.091	-101
292.94	152.113	-99	292.945	152.135	-100
292.951	152.157	-99	292.956	152.179	-98
292.962	152.201	-99	292.967	152.223	-100
292.973	152.245	-100	292.984	152.267	-99
292.984	152.291	-99	292.972	152.315	-100
292.961	152.34	-100	292.95	152.364	-87
292.938	152.388	-89	292.927	152.413	-89
292.916	152.437	-99	292.904	152.462	-99
292.893	152.486	-99	292.87	152.51	-99
292.87	152.532	-100	292.853	152.554	-98
292.836	152.576	-98	292.819	152.597	-99
292.802	152.619	-99	292.785	152.641	-100
292.768	152.663	-98	292.751	152.685	-97

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292.734	152.706	-98	292.7	152.728	-97
292.7	152.749	-95	292.673	152.77	-98
292.646	152.791	-99	292.619	152.812	-99
292.592	152.832	-98	292.566	152.853	-97
292.539	152.874	-98	292.512	152.895	-97
292.485	152.916	-96	292.431	152.937	-97
292.431	152.964	-99	292.39	152.991	-99
292.348	153.019	-99	292.306	153.046	-100
292.264	153.073	-100	292.222	153.101	-99
292.18	153.128	-98	292.139	153.155	-100
292.097	153.183	-100	292.013	153.21	-98
292.013	153.229	-91	291.968	153.248	-90
291.922	153.268	-95	291.877	153.287	-97
291.831	153.306	-97	291.786	153.325	-99
291.74	153.344	-99	291.695	153.363	-98
291.649	153.383	-98	291.558	153.402	-100
291.558	153.42	-101	291.503	153.438	-99
291.448	153.457	-99	291.392	153.475	-98
291.337	153.493	-99	291.281	153.512	-101
291.226	153.53	-100	291.171	153.548	-99
291.115	153.566	-100	291.005	153.585	-99
291.005	153.604	-97	290.961	153.624	-99
290.917	153.643	-99	290.873	153.662	-99
290.829	153.682	-96	290.784	153.701	-99
290.74	153.72	-100	290.696	153.74	-100
290.652	153.759	-100	290.564	153.778	-99
290.564	153.794	-95	290.503	153.81	-89
290.442	153.826	-102	290.381	153.842	-101
290.319	153.858	-95	290.258	153.873	-94

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290.197	153.889	-93	290.136	153.905	-93
290.074	153.921	-94	289.952	153.937	-92
289.952	154.24	-91	289.613	154.543	-101
289.275	154.846	-101	288.936	155.149	-103
288.598	155.452	-104	288.259	155.755	-104
287.92	156.059	-101	287.582	156.362	-102
287.243	156.665	-102	286.566	156.968	-104
286.566	156.985	-104	286.591	157.003	-103
286.616	157.02	-103	286.642	157.038	-101
286.667	157.055	-103	286.692	157.072	-103
286.717	157.09	-102	286.743	157.107	-102
286.768	157.124	-104	286.818	157.142	-104
286.818	157.159	-102	286.843	157.176	-101
286.867	157.194	-101	286.892	157.211	-101
286.916	157.228	-101	286.941	157.246	-101
286.965	157.263	-101	286.989	157.28	-101
287.014	157.297	-99	287.063	157.315	-100
287.063	157.342	-92	287.068	157.37	-92
287.073	157.397	-101	287.078	157.424	-100

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287.084	157.452	-101	287.089	157.479	-100
287.094	157.507	-99	287.099	157.534	-99
287.104	157.562	-98	287.115	157.589	-99
287.115	157.607	-100	287.151	157.625	-98
287.188	157.643	-100	287.225	157.662	-93
287.261	157.68	-94	287.298	157.698	-99
287.334	157.716	-99	287.371	157.734	-100
287.407	157.752	-99	287.481	157.77	-99
287.481	157.79	-100	287.513	157.81	-99
287.546	157.829	-99	287.578	157.849	-99
287.611	157.869	-99	287.644	157.888	-98
287.676	157.908	-98	287.709	157.928	-98
287.742	157.948	-97	287.807	157.967	-97
287.807	157.99	-91	287.833	158.013	-95
287.859	158.036	-98	287.885	158.059	-97
287.91	158.082	-97	287.936	158.105	-97
287.962	158.128	-97	287.988	158.151	-98
288.014	158.174	-98	288.066	158.196	-97
288.066	158.226	-99	288.071	158.255	-99
288.075	158.284	-97	288.08	158.313	-98
288.085	158.342	-98	288.09	158.371	-87
288.095	158.4	-91	288.1	158.43	-94
288.104	158.459	-93	288.114	158.498	-99
288.114	158.505	-97	288.14	158.522	-100
288.167	158.539	-100	288.193	158.556	-99
288.22	158.573	-100	288.246	158.591	-100
288.272	158.608	-99	288.299	158.625	-99
288.325	158.642	-89	288.378	158.659	-88
288.378	158.674	-99	288.409	158.69	-97
288.439	158.705	-96	288.47	158.721	-99
288.501	158.736	-99	288.531	158.751	-98

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288.562	158.767	-100	288.593	158.782	-99
288.623	158.798	-99	288.685	158.813	-99
288.625	158.845	-100	288.684	158.878	-99
288.684	158.91	-97	288.683	158.942	-96
288.683	158.975	-99	288.682	159.007	-101
288.681	159.039	-101	288.681	159.072	-100
288.69	159.104	-100	288.679	159.136	-99
288.679	159.155	-94	288.704	159.174	-101
288.728	159.192	-101	288.752	159.211	-101
288.776	159.23	-99	288.801	159.249	-101
288.825	159.267	-99	288.849	159.286	-99
288.873	159.305	-100	288.922	159.324	-101
288.922	159.346	-102	288.941	159.368	-101
288.959	159.39	-100	288.978	159.412	-100
288.997	159.434	-100	289.016	159.456	-100
289.034	159.478	-98	289.053	159.5	-99
289.072	159.522	-101	289.109	159.544	-99
289.109	159.561	-101	289.138	159.578	-98
289.167	159.595	-99	289.196	159.612	-100
289.224	159.629	-89	289.253	159.646	-90
289.282	159.663	-91	289.311	159.68	-90
289.34	159.697	-92	289.397	159.714	-92
289.397	159.748	-99	289.386	159.781	-98
289.374	159.814	-98	289.362	159.847	-99
289.35	159.881	-99	289.338	159.914	-97

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289.327	159.947	-98	289.315	159.981	-91
289.303	160.014	-93	289.279	160.047	-100
289.279	160.063	-100	289.322	160.079	-99
289.364	160.095	-100	289.406	160.111	-99
289.448	160.127	-99	289.49	160.142	-101
289.533	160.158	-99	289.575	160.174	-100
289.617	160.19	-98	289.701	160.206	-101
289.701	160.223	-98	289.742	160.241	-99
289.782	160.259	-99	289.823	160.276	-99
289.863	160.294	-98	289.903	160.312	-97
289.944	160.329	-98	289.984	160.347	-97
290.024	160.365	-97	290.105	160.382	-97
290.105	160.409	-97	290.107	160.435	-96
290.108	160.461	-96	290.109	160.488	-96
290.11	160.514	-96	290.112	160.541	-96
290.113	160.567	-96	290.114	160.594	-96
290.116	160.62	-96	290.118	160.646	-96
290.118	160.661	-95	290.151	160.676	-94
290.183	160.691	-92	290.215	160.707	-95
290.247	160.722	-95	290.28	160.737	-95
290.312	160.752	-95	290.344	160.767	-96
290.376	160.782	-95	290.441	160.797	-96
290.441	160.826	-95	290.452	160.855	-95
290.463	160.884	-95	290.474	160.912	-94
290.485	160.941	-95	290.496	160.97	-95
290.507	160.999	-94	290.518	161.028	-94
290.529	161.057	-94	290.551	161.086	-94
290.551	161.108	-94	290.559	161.131	-95
290.567	161.154	-95	290.576	161.177	-94
290.584	161.2	-95	290.592	161.223	-96
290.601	161.246	-95	290.609	161.269	-96

290.618	161.292	-95	290.634	161.314	-96
290.634	161.335	-96	290.66	161.355	-98
290.686	161.375	-98	290.712	161.395	-98
290.738	161.415	-98	290.764	161.435	-99
290.79	161.455	-99	290.816	161.475	-98
290.842	161.495	-98	290.895	161.516	-98
290.895	161.541	-98	290.888	161.567	-99
290.882	161.593	-97	290.876	161.618	-97
290.87	161.644	-99	290.864	161.67	-99
290.858	161.696	-98	290.852	161.721	-98
290.846	161.747	-99	290.834	161.773	-100
290.834	161.823	-100	290.836	161.873	-99
290.838	161.924	-99	290.841	161.974	-100
290.843	162.024	-100	290.845	162.074	-101
290.847	162.124	-99	290.85	162.175	-99
290.852	162.225	-101	290.856	162.275	-99
290.856	162.297	-99	290.858	162.32	-100
290.86	162.342	-100	290.861	162.364	-99
290.863	162.387	-100	290.865	162.409	-100
290.866	162.431	-101	290.868	162.454	-101
290.87	162.476	-100	290.873	162.498	-100
290.873	162.525	-100	290.856	162.552	-98
290.839	162.578	-99	290.822	162.605	-100
290.805	162.632	-99	290.788	162.659	-99
290.77	162.685	-99	290.753	162.712	-99
290.736	162.739	-99	290.702	162.766	-99
290.702	162.776	-99	290.698	162.787	-98

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290.694	162.798	-99	290.69	162.808	-100
290.686	162.819	-97	290.682	162.83	-101
290.678	162.841	-101	290.675	162.851	-103
290.671	162.862	-101	290.663	162.873	-103
290.663	162.895	-101	290.641	162.918	-101
290.618	162.941	-103	290.596	162.964	-103
290.573	162.987	-102	290.551	163.01	-103
290.529	163.032	-102	290.506	163.055	-102
290.484	163.078	-101	290.439	163.101	-97
290.439	163.121	-100	290.434	163.141	-101
290.429	163.161	-101	290.424	163.181	-101
290.419	163.201	-101	290.414	163.221	-99
290.409	163.241	-99	290.404	163.261	-99
290.399	163.281	-98	290.389	163.301	-98
290.369	163.322	-99	290.37	163.343	-98
290.351	163.364	-99	290.332	163.385	-99
290.313	163.406	-98	290.293	163.427	-99
290.274	163.448	-99	290.255	163.469	-95
290.236	163.491	-92	290.198	163.512	-95
290.198	163.532	-99	290.17	163.553	-98
290.141	163.573	-98	290.112	163.594	-98
290.084	163.615	-99	290.055	163.635	-99
290.027	163.656	-98	289.998	163.676	-98
289.97	163.697	-99	289.913	163.718	-98
289.913	163.748	-98	289.893	163.779	-97

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289.874	163.809	-98
289.836	163.87	-98
289.797	163.931	-99
289.759	163.992	-98
289.72	164.046	-98
289.704	164.093	-98
289.687	164.14	-98
289.671	164.187	-99
289.654	164.235	-100
289.638	164.278	-94
289.609	164.317	-99
289.581	164.355	-99
289.553	164.394	-98
289.525	164.433	-97
289.496	164.474	-98
289.462	164.517	-97
289.428	164.559	-96
289.394	164.602	-98
289.36	164.644	-97
289.326	164.743	-96
289.109	164.898	-99
288.831	165.053	-98
288.673	165.208	-99
288.456	165.363	-99
288.238	165.458	-99
288.198	165.493	-95
288.158	165.527	-95
288.118	165.562	-99
288.078	165.597	-98
288.038	165.637	-98
287.982	165.682	-98
287.925	165.728	-100
287.869	165.773	-99
287.813	165.818	-99

289.855	163.839	-98
289.816	163.9	-97
289.778	163.961	-97
289.72	164.022	-99
289.712	164.069	-98
289.696	164.117	-99
289.679	164.164	-99
289.662	164.211	-98
289.638	164.258	-91
289.624	164.297	-99
289.595	164.336	-99
289.567	164.375	-99
289.539	164.414	-98
289.496	164.453	-96
289.479	164.495	-97
289.445	164.538	-96
289.411	164.58	-97
289.377	164.623	-97
289.326	164.665	-97
289.218	164.82	-98
289	164.975	-98
288.782	165.13	-100
288.565	165.285	-99
288.238	165.441	-99
288.218	165.475	-99
288.178	165.51	-98
288.138	165.545	-94
288.098	165.579	-97
288.038	165.614	-98
288.01	165.659	-97
287.953	165.705	-98
287.897	165.75	-97
287.841	165.796	-99
287.757	165.841	-98

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287.757	165.865	-91	287.752	165.889	-90
287.748	165.912	-92	287.743	165.936	-90
287.738	165.96	-92	287.733	165.984	-91
287.729	166.008	-93	287.724	166.031	-94
287.719	166.055	-97	287.71	166.079	-96
287.71	166.102	-97	287.688	166.136	-96
287.667	166.165	-97	287.646	166.193	-97
287.625	166.222	-98	287.603	166.25	-98
287.582	166.279	-97	287.561	166.308	-97
287.539	166.336	-97	287.497	166.365	-99
287.497	166.384	-95	287.475	166.403	-95
287.454	166.422	-94	287.432	166.442	-96
287.41	166.461	-98	287.389	166.48	-98
287.367	166.499	-91	287.345	166.518	-90
287.324	166.538	-90	287.28	166.557	-90
287.28	166.58	-98	287.254	166.602	-97
287.228	166.625	-98	287.201	166.648	-97
287.175	166.671	-99	287.149	166.694	-98
287.122	166.717	-97	287.096	166.74	-98
287.07	166.762	-96	287.017	166.785	-99
287.017	166.801	-99	287.011	166.817	-97
286.995	166.834	-98	286.999	166.85	-99
286.993	166.866	-98	286.987	166.882	-99
286.98	166.898	-99	286.974	166.914	-98
286.968	166.93	-95	286.956	166.947	-98
286.956	166.979	-99	286.944	167.012	-99
286.932	167.045	-100	286.92	167.078	-100
286.908	167.111	-100	286.896	167.143	-96
286.884	167.176	-97	286.872	167.209	-95
286.86	167.242	-101	286.836	167.274	-101
286.836	167.287	-96	286.833	167.3	-96
286.83	167.312	-94	286.827	167.325	-95
286.824	167.338	-94	286.822	167.35	-101

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286.819	167.363	-100	286.816	167.376	-102
286.813	167.388	-101	286.808	167.401	-95
286.808	167.421	-93	286.81	167.441	-89
286.812	167.462	-90	286.814	167.482	-91
286.816	167.502	-93	286.818	167.522	-91
286.82	167.543	-92	286.822	167.563	-94
286.824	167.583	-96	286.828	167.604	-97
286.828	167.636	-96	286.816	167.669	-94
286.805	167.702	-88	286.794	167.735	-86
286.783	167.767	-87	286.771	167.8	-86
286.76	167.833	-102	286.749	167.866	-104
286.738	167.899	-102	286.715	167.931	-103
286.715	168.008	-101	286.697	168.084	-103
286.678	168.161	-102	286.66	168.237	-102
286.641	168.313	-103	286.623	168.39	-101
286.604	168.466	-99	286.586	168.542	-103
286.567	168.619	-103	286.53	168.695	-102
286.53	168.717	-103	286.532	168.739	-101
286.533	168.761	-103	286.535	168.783	-101
286.536	168.805	-92	286.538	168.827	-94
286.539	168.85	-93	286.541	168.872	-91
286.542	168.894	-95	286.545	168.916	-94
286.545	168.927	-95	286.569	168.939	-100

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286.592	168.951	-96	286.616	168.962	-101
286.64	168.974	-100	286.663	168.986	-91
286.687	168.998	-91	286.711	169.009	-90
286.734	169.021	-95	286.762	169.033	-101
286.782	169.065	-99	286.774	169.098	-96
286.767	169.131	-98	286.759	169.164	-96
286.752	169.197	-97	286.744	169.23	-95
286.737	169.263	-99	286.729	169.295	-97
286.722	169.328	-96	286.707	169.361	-98
286.707	169.381	-98	286.711	169.402	-93
286.716	169.422	-92	286.72	169.442	-93
286.724	169.462	-93	286.728	169.482	-92
286.733	169.503	-97	286.737	169.523	-95
286.741	169.543	-95	286.75	169.563	-97
286.75	169.588	-97	286.785	169.613	-96
286.819	169.638	-96	286.854	169.663	-97
286.889	169.688	-96	286.924	169.713	-97
286.959	169.738	-91	286.993	169.763	-96
287.028	169.788	-96	287.098	169.813	-96
287.098	169.835	-94	287.101	169.857	-94
287.105	169.879	-96	287.108	169.901	-96
287.112	169.923	-96	287.115	169.945	-96
287.119	169.967	-96	287.123	169.989	-97
287.126	170.011	-96	287.133	170.033	-97
287.133	170.056	-96	287.159	170.079	-96
287.185	170.101	-96	287.212	170.124	-95
287.238	170.147	-95	287.264	170.17	-95
287.29	170.192	-95	287.316	170.215	-95
287.342	170.238	-95	287.395	170.26	-96
287.395	170.274	-95	287.416	170.287	-94
287.438	170.3	-96	287.459	170.314	-96
287.481	170.327	-96	287.502	170.34	-94
287.524	170.354	-96	287.545	170.367	-96

287.567	170.38	-95
287.61	170.418	-95
287.638	170.466	-95
287.667	170.514	-95
287.695	170.563	-95
287.724	170.611	-94
287.753	170.657	-97
287.854	170.699	-95
287.956	170.742	-97
288.058	170.785	-96
288.159	170.828	-92
288.261	170.924	-97
288.505	171.072	-96
288.749	171.22	-96
288.993	171.368	-95
289.237	171.516	-97
289.481	171.616	-97
289.535	171.668	-97
289.588	171.72	-96
289.641	171.773	-79
289.694	171.825	-90
289.748	171.868	-96
289.856	171.903	-96
289.965	171.938	-96
290.074	171.973	-96
290.183	172.008	-89
290.292	172.053	-96
290.344	172.109	-98
290.397	172.164	-86
290.449	172.22	-99
290.502	172.275	-99
290.554	172.314	-96
290.606	172.337	-97
290.658	172.359	-97
290.71	172.382	-97

287.61	170.394	-92
287.624	170.442	-95
287.653	170.49	-95
287.681	170.538	-95
287.71	170.587	-94
287.753	170.635	-94
287.803	170.678	-96
287.905	170.721	-97
288.007	170.764	-97
288.108	170.807	-97
288.261	170.85	-91
288.383	170.998	-95
288.627	171.146	-96
288.871	171.294	-96
289.115	171.442	-96
289.481	171.59	-97
289.508	171.642	-96
289.561	171.694	-96
289.614	171.747	-98
289.668	171.799	-91
289.748	171.851	-96
289.802	171.886	-97
289.911	171.921	-96
290.02	171.955	-95
290.128	171.99	-96
290.292	172.025	-96
290.318	172.081	-96
290.37	172.136	-98
290.423	172.192	-88
290.476	172.247	-98
290.554	172.303	-98
290.58	172.326	-96
290.632	172.348	-97
290.684	172.37	-97
290.735	172.393	-97

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290.761 172.404 -97
 290.813 172.437 -98
 290.852 172.481 -97
 290.89 172.525 -97
 290.929 172.569 -98
 290.968 172.613 -96
 291.007 172.664 -95
 291.015 172.722 -96
 291.024 172.779 -95
 291.033 172.837 -94
 291.041 172.894 -94
 291.05 172.945 -95
 291.046 172.987 -95
 291.042 173.03 -95
 291.038 173.073 -95
 291.033 173.116 -95
 291.029 173.159 -95
 291.028 173.202 -95
 291.026 173.245 -95
 291.025 173.288 -95
 291.023 173.33 -95
 291.022 173.375 -96
 291.039 173.422 -97
 291.057 173.469 -98
 291.075 173.516 -97
 291.093 173.563 -96
 291.111 173.615 -96
 291.081 173.672 -92
 291.052 173.728 -93
 291.022 173.785 -96
 290.992 173.842 -96
 290.963 173.888 -95
 290.945 173.923 -97
 290.928 173.958 -97
 290.91 173.993 -96

290.813 172.415 -96
 290.832 172.459 -98
 290.871 172.503 -97
 290.91 172.547 -97
 290.949 172.591 -97
 291.007 172.635 -96
 291.011 172.693 -95
 291.02 172.75 -95
 291.028 172.808 -95
 291.037 172.865 -94
 291.05 172.923 -96
 291.048 172.966 -96
 291.044 173.009 -95
 291.04 173.052 -95
 291.035 173.095 -95
 291.029 173.137 -95
 291.028 173.18 -95
 291.027 173.223 -93
 291.025 173.266 -95
 291.024 173.309 -95
 291.022 173.352 -95
 291.03 173.399 -96
 291.048 173.446 -95
 291.066 173.493 -96
 291.084 173.54 -98
 291.111 173.587 -98
 291.096 173.643 -96
 291.066 173.7 -94
 291.037 173.757 -95
 291.007 173.814 -96
 290.963 173.87 -97
 290.954 173.905 -96
 290.936 173.941 -97
 290.919 173.976 -97
 290.901 174.011 -96

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290.892 174.028 -97
 290.875 174.066 -89
 290.878 174.105 -90
 290.882 174.144 -97
 290.885 174.183 -96
 290.889 174.223 -95
 290.892 174.27 -94
 290.801 174.326 -93
 290.709 174.381 -93
 290.617 174.437 -89
 290.525 174.493 -92
 290.433 174.539 -93
 290.351 174.577 -94
 290.268 174.615 -93
 290.186 174.653 -93
 290.103 174.691 -94
 290.02 174.734 -93
 289.934 174.783 -93
 289.847 174.832 -93
 289.76 174.881 -93
 289.674 174.93 -94
 289.587 174.973 -94
 289.506 175.011 -94
 289.424 175.049 -95
 289.343 175.087 -96
 289.262 175.125 -96
 289.181 175.167 -97
 289.097 175.213 -96
 289.014 175.258 -96
 288.93 175.304 -97
 288.847 175.349 -97
 288.763 175.395 -99

 288.725 175.441 -100
 288.687 175.487 -99

290.875 174.046 -96
 290.876 174.085 -91
 290.88 174.125 -98
 290.884 174.164 -96
 290.887 174.203 -95
 290.892 174.242 -93
 290.846 174.298 -93
 290.755 174.354 -94
 290.663 174.409 -92
 290.571 174.465 -92
 290.433 174.521 -92
 290.392 174.558 -93
 290.309 174.596 -93
 290.227 174.634 -93
 290.144 174.672 -93
 290.02 174.71 -93
 289.977 174.759 -94
 289.89 174.807 -94
 289.804 174.856 -94
 289.717 174.905 -94
 289.587 174.954 -94
 289.546 174.992 -94
 289.465 175.03 -95
 289.384 175.068 -95
 289.303 175.106 -96
 289.181 175.144 -96
 289.139 175.19 -97
 289.055 175.235 -96
 288.972 175.281 -97
 288.888 175.326 -96
 288.763 175.372 -98
 288.744 175.418 -100

 288.706 175.464 -99
 288.668 175.511 -100

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288.649	175.534	-98	288.63	175.557	-97
288.611	175.58	-97	288.574	175.603	-96
288.574	175.622	-96	288.5	175.641	-97
288.427	175.659	-97	288.354	175.678	-96
288.28	175.697	-96	288.207	175.715	-96
288.134	175.734	-98	288.061	175.753	-97
287.987	175.771	-98	287.841	175.79	-98
287.941	175.813	-99	287.779	175.835	-98
287.717	175.858	-99	287.655	175.881	-98
287.593	175.903	-98	287.531	175.926	-98
287.469	175.949	-98	287.407	175.971	-97
287.345	175.994	-96	287.221	176.017	-96
287.221	176.023	-96	287.131	176.029	-96
287.042	176.035	-96	286.953	176.041	-96
286.864	176.047	-95	286.775	176.053	-95
286.686	176.058	-96	286.596	176.064	-95
286.507	176.07	-97	286.329	176.076	-96
286.329	176.089	-96	286.204	176.102	-95
286.079	176.115	-96	285.953	176.128	-96
285.828	176.141	-95	285.703	176.154	-96
285.578	176.168	-96	285.453	176.181	-95
285.328	176.194	-97	285.078	176.207	-96
285.078	176.2	-98	284.971	176.193	-97
284.864	176.186	-96	284.758	176.179	-95
284.651	176.172	-97	284.545	176.165	-97
284.438	176.158	-99	284.331	176.151	-98
284.225	176.144	-98	284.012	176.137	-99
284.012	176.139	-97	283.857	176.14	-98
283.703	176.142	-99	283.548	176.144	-98
283.394	176.146	-97	283.239	176.147	-99
283.085	176.149	-98	282.93	176.151	-98
282.776	176.153	-98	282.467	176.154	-98
282.467	176.149	-97	282.348	176.144	-98
282.23	176.139	-97	282.111	176.134	-97

275.037	175.783	-102	274.91	175.771	-99
274.782	175.76	-101	274.654	175.748	-100
274.527	175.737	-102	274.399	175.726	-101
274.271	175.714	-101	274.144	175.703	-99
274.016	175.691	-102	273.761	175.68	-99
273.761	175.672	-100	273.631	175.665	-101
273.501	175.657	-101	273.371	175.649	-101
273.241	175.642	-100	273.111	175.634	-100
272.982	175.626	-101	272.852	175.619	-99
272.722	175.611	-100	272.462	175.603	-99
272.462	175.594	-98	272.335	175.584	-97
272.208	175.575	-95	272.081	175.565	-96
271.953	175.555	-96	271.926	175.546	-95
271.699	175.536	-96	271.572	175.526	-94
271.445	175.517	-94	271.191	175.507	-94
271.191	175.511	-94	271.057	175.515	-94
270.923	175.519	-95	270.789	175.522	-96
270.655	175.526	-95	270.522	175.53	-97
270.388	175.534	-97	270.254	175.538	-96
270.12	175.542	-96	269.853	175.545	-96
269.853	175.537	-87	269.714	175.529	-89
269.575	175.521	-89	269.436	175.513	-88
269.297	175.506	-86	269.158	175.498	-96
269.018	175.49	-99	268.879	175.482	-97
268.74	175.474	-98	268.462	175.466	-97
268.462	175.454	-98	268.346	175.442	-97
268.23	175.431	-96	268.114	175.419	-95
267.998	175.408	-95	267.882	175.396	-95
267.765	175.384	-94	267.649	175.373	-95
267.533	175.361	-96	267.301	175.349	-96

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267.301	175.345	-95
267.061	175.337	-95
266.822	175.329	-92
266.582	175.321	-95
266.342	175.314	-94

267.181	175.341	-94
266.941	175.333	-89
266.702	175.325	-92
266.462	175.318	-95
266.103	175.31	-94

RN= 4

INPUT DESIRED RUN NO.

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RUN NO. 4 OCEANIC FLT., 11-4-81
132.15

FREQUENCY=

NMI	AZIMUTH	DBM	NMI	AZIMUTH	DBM
257.818	177.18	-98	257.698	176.957	-97
257.578	176.733	-96	257.457	176.509	-98
257.337	176.285	-97	257.217	176.061	-97
257.096	175.837	-97	256.976	175.614	-99
256.856	175.39	-97	256.615	175.166	-98
256.615	175.164	-98	256.506	175.162	-99
256.397	175.16	-98	256.287	175.158	-99
256.178	175.156	-100	256.069	175.154	-98
255.96	175.152	-99	255.85	175.15	-100
255.741	175.148	-98	255.523	175.146	-98
255.523	175.144	-95	255.403	175.142	-97
255.283	175.14	-96	255.164	175.138	-96
255.044	175.135	-95	254.925	175.133	-95
254.805	175.131	-94	254.685	175.129	-95
254.566	175.127	-94	254.327	175.125	-94
254.327	175.123	-93	254.218	175.121	-93
254.11	175.119	-92	254.002	175.117	-93
253.893	175.115	-93	253.785	175.113	-92
253.677	175.111	-92	253.569	175.109	-92
253.46	175.107	-92	253.244	175.105	-91
253.244	175.105	-90	253.123	175.105	-91
253.001	175.104	-91	252.88	175.104	-90
252.759	175.104	-79	252.638	175.104	-83
252.516	175.104	-83	252.395	175.104	-85
252.274	175.104	-87	252.031	175.104	-88
252.031	175.101	-88	251.89	175.098	-88
251.749	175.096	-88	251.608	175.093	-87
251.467	175.09	-87	251.326	175.088	-87
251.185	175.085	-87	251.044	175.083	-87
250.903	175.08	-87	250.621	175.077	-87

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250.621	175.075	-87
250.357	175.07	-87
250.094	175.065	-87
249.83	175.06	-87
249.567	175.055	-87
249.303	175.046	-87
249.09	175.034	-88
248.876	175.021	-88
248.663	175.009	-88
248.449	174.996	-88
248.235	175.006	-88
247.981	175.039	-87
247.727	175.072	-88
247.473	175.105	-87
247.218	175.138	-88
246.964	175.163	-87
246.761	175.18	-86
246.558	175.197	-86
246.355	175.214	-86
246.151	175.231	-86
245.948	175.261	-86
245.739	175.303	-85
245.53	175.345	-84
245.32	175.387	-84
245.111	175.429	-84
244.902	175.477	-86
244.752	175.529	-86
244.602	175.581	-86
244.452	175.633	-86
244.302	175.686	-87
244.152	175.728	-86
244.079	175.76	-86
244.006	175.793	-88
243.932	175.825	-88
243.859	175.857	-87

250.489	175.072	-87
250.226	175.068	-87
249.962	175.063	-87
249.699	175.058	-87
249.303	175.053	-87
249.197	175.04	-87
248.983	175.027	-87
248.769	175.015	-88
248.556	175.002	-88
248.235	174.99	-88
248.108	175.023	-88
247.854	175.056	-88
247.6	175.089	-88
247.345	175.122	-88
246.964	175.155	-88
246.862	175.172	-86
246.659	175.189	-86
246.456	175.206	-86
246.253	175.223	-86
245.948	175.24	-86
245.844	175.282	-86
245.634	175.324	-85
245.425	175.366	-85
245.216	175.408	-83
244.902	175.45	-86
244.827	175.503	-86
244.677	175.555	-86
244.527	175.607	-86
244.377	175.659	-86
244.152	175.712	-85
244.116	175.744	-85
244.042	175.776	-87
243.969	175.809	-87
243.895	175.841	-86
243.785	175.873	-87

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243.785	175.898	-87
243.726	175.948	-87
243.667	175.998	-87
243.608	176.047	-88
243.549	176.097	-88
243.49	176.149	-88
243.521	176.205	-89
243.551	176.26	-79
243.522	176.316	-77
243.612	176.371	-87
243.643	176.424	-88
243.694	176.475	-89
243.746	176.527	-87
243.797	176.578	-78
243.848	176.629	-89
243.899	176.674	-89
244.001	176.713	-88
244.103	176.753	-86
244.205	176.792	-86
244.307	176.831	-87
244.409	176.87	-88
244.598	176.91	-90
244.786	176.95	-92
244.975	176.99	-92
245.163	177.03	-91
245.351	177.059	-91
245.5	177.077	-90
245.648	177.096	-89
245.796	177.114	-88
245.944	177.132	-87
246.092	177.157	-87
246.306	177.188	-88
246.519	177.22	-86
246.733	177.251	-88
246.946	177.283	-88

243.756	175.923	-87
243.697	175.973	-87
243.638	176.022	-87
243.578	176.072	-88
243.49	176.122	-88
243.505	176.177	-88
243.536	176.233	-88
243.567	176.288	-82
243.597	176.343	-87
243.643	176.399	-88
243.669	176.45	-88
243.72	176.501	-89
243.771	176.552	-86
243.822	176.604	-89
243.899	176.655	-89
243.95	176.694	-88
244.052	176.733	-87
244.154	176.772	-86
244.256	176.811	-86
244.409	176.85	-87
244.503	176.89	-88
244.692	176.93	-90
244.88	176.97	-92
245.069	177.01	-92
245.351	177.05	-91
245.425	177.068	-90
245.574	177.096	-90
245.722	177.105	-89
245.87	177.123	-87
246.092	177.141	-87
246.199	177.172	-88
246.412	177.204	-88
246.626	177.235	-88
246.839	177.267	-88
247.159	177.299	-88

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247.159	177.306	-88
247.354	177.32	-88
247.548	177.335	-88
247.742	177.349	-89
247.936	177.363	-89
248.131	177.38	-90
248.412	177.4	-91
248.694	177.419	-91
248.976	177.439	-92
249.257	177.458	-92
249.539	177.461	-92
249.935	177.449	-94
250.331	177.436	-94
250.728	177.423	-96
251.124	177.411	-96

247.257	177.313	-88
247.451	177.327	-88
247.645	177.342	-87
247.839	177.356	-89
248.131	177.371	-89
248.271	177.39	-91
248.553	177.41	-91
248.835	177.429	-91
249.116	177.448	-93
249.539	177.468	-92
249.737	177.455	-94
250.133	177.442	-94
250.53	177.43	-92
250.926	177.417	-95
251.52	177.404	-95

RN= 6

INPUT DESIRED RUN NO.

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RUN NO. 6 OCEANIC FLT., 11-4-81
132.15

FREQUENCY=

NMI	AZIMUTH	DBM	NMI	AZIMUTH	DBM
259.918	177.222	-101	259.946	177.041	-100
259.975	176.859	-101	260.003	176.677	-99
260.031	176.495	-101	260.06	176.313	-99
260.088	176.131	-92	260.117	175.95	-91
260.145	175.768	-93	260.202	175.586	-99
260.202	175.566	-100	260.22	175.547	-101
260.238	175.528	-99	260.255	175.508	-100
260.273	175.489	-101	260.291	175.47	-101
260.309	175.45	-102	260.327	175.431	-100
260.344	175.411	-99	260.38	175.392	-101
260.38	175.352	-101	260.383	175.313	-101
260.386	175.273	-102	260.389	175.233	-101
260.392	175.194	-101	260.395	175.154	-99
260.398	175.114	-99	260.401	175.074	-98
260.404	175.035	-99	260.41	174.995	-101
260.41	174.967	-100	260.388	174.939	-101
260.366	174.911	-101	260.344	174.883	-101
260.322	174.854	-102	260.3	174.826	-101
260.277	174.798	-102	260.255	174.77	-103

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260.233	174.742	-100	260.189	174.714	-102
260.189	174.691	-98	260.154	174.669	-102
260.119	174.647	-102	260.083	174.624	-102
260.048	174.602	-101	260.013	174.579	-103
259.978	174.557	-101	259.943	174.534	-103
259.907	174.512	-97	259.837	174.489	-98
259.837	174.464	-98	259.782	174.439	-99
259.726	174.414	-100	259.671	174.389	-101
259.616	174.364	-104	259.56	174.339	-103
259.505	174.314	-102	259.45	174.289	-103
259.394	174.264	-101	259.283	174.239	-103
259.283	174.21	-104	259.242	174.181	-103
259.2	174.152	-104	259.158	174.123	-102
259.116	174.095	-103	259.075	174.066	-104
259.033	174.037	-100	258.991	174.008	-101
258.949	173.979	-102	258.866	173.95	-103
258.866	173.932	-103	258.785	173.914	-94
258.705	173.897	-95	258.624	173.879	-103
258.544	173.861	-103	258.463	173.843	-103

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258.383	173.826	-103	258.302	173.808	-104
258.222	173.79	-103	258.061	173.772	-100
258.061	173.754	-102	257.971	173.736	-103
257.882	173.718	-102	257.792	173.7	-103
257.703	173.682	-102	257.613	173.664	-101
257.524	173.646	-103	257.435	173.628	-100
257.345	173.61	-97	257.166	173.592	-101
257.166	173.565	-103	257.079	173.539	-101
256.992	173.512	-101	256.905	173.486	-100
256.818	173.46	-98	256.731	173.433	-96
256.644	173.407	-99	256.556	173.38	-102
256.469	173.354	-101	256.295	173.327	-103
256.295	173.323	-103	256.199	173.319	-101
256.103	173.314	-102	256.007	173.31	-102
255.911	173.306	-101	255.815	173.302	-99
255.72	173.297	-100	255.624	173.293	-101
255.528	173.289	-99	255.336	173.284	-99
255.336	173.276	-97	255.241	173.267	-98
255.146	173.259	-97	255.051	173.25	-96
254.957	173.242	-96	254.862	173.234	-95

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254.767	173.225	-95
254.577	173.203	-94
254.388	173.199	-93
254.19	173.198	-92
253.992	173.198	-92
253.795	173.197	-90
253.597	173.196	-91
253.4	173.198	-90
253.131	173.204	-90
252.862	173.209	-90
252.593	173.214	-90
252.325	173.22	-90
252.056	173.226	-90
251.877	173.234	-90
251.697	173.242	-90
251.518	173.25	-89
251.339	173.257	-90
251.16	173.259	-89
251.009	173.255	-90
250.859	173.251	-89
250.708	173.246	-88
250.557	173.242	-86
250.407	173.258	-86
250.234	173.295	-88
250.062	173.333	-87
249.89	173.37	-87
249.717	173.407	-86
249.545	173.446	-88
249.416	173.489	-88
249.286	173.532	-87
249.157	173.574	-87
249.028	173.617	-87
248.899	173.656	-87
248.795	173.69	-85
248.69	173.725	-88

254.672	173.217	-94
254.388	173.2	-92
254.289	173.199	-93
254.091	173.198	-92
253.894	173.197	-91
253.696	173.196	-91
253.4	173.196	-91
253.265	173.201	-90
252.996	173.206	-90
252.728	173.212	-91
252.459	173.217	-90
252.056	173.223	-90
251.966	173.23	-90
251.787	173.238	-89
251.608	173.246	-90
251.429	173.253	-90
251.16	173.261	-90
251.065	173.257	-89
250.934	173.253	-90
250.783	173.248	-89
250.633	173.244	-87
250.407	173.24	-84
250.321	173.277	-88
250.148	173.314	-88
249.976	173.351	-88
249.803	173.388	-88
249.545	173.425	-87
249.48	173.468	-88
249.351	173.51	-88
249.222	173.553	-87
249.093	173.595	-87
248.899	173.638	-87
248.847	173.673	-88
248.742	173.708	-86
248.638	173.743	-87

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248.586	173.76	-88	248.534	173.777	-87
248.482	173.795	-88	248.378	173.812	-88
248.378	173.818	-89	248.353	173.823	-89
248.328	173.829	-89	248.303	173.834	-89
248.278	173.84	-88	248.252	173.845	-88
248.227	173.85	-88	248.202	173.856	-88
248.177	173.861	-86	248.127	173.867	-86
248.127	173.896	-87	248.115	173.925	-87
248.103	173.954	-88	248.09	173.982	-88
248.078	174.011	-88	248.065	174.04	-87
248.053	174.069	-87	248.041	174.098	-88
248.028	174.127	-89	248.004	174.156	-89
248.004	174.177	-89	248.018	174.198	-88
248.031	174.219	-88	248.045	174.241	-87
248.059	174.262	-87	248.073	174.283	-87
248.087	174.304	-87	248.101	174.325	-87
248.115	174.346	-87	248.143	174.367	-87
248.143	174.383	-88	248.18	174.398	-88
248.217	174.413	-89	248.255	174.428	-89
248.292	174.443	-89	248.329	174.458	-89
248.366	174.474	-88	248.403	174.489	-88
248.441	174.504	-88	248.515	174.519	-88
248.515	174.543	-88	248.55	174.567	-87
248.585	174.59	-87	248.621	174.614	-86
248.656	174.637	-86	248.691	174.661	-86
248.726	174.685	-86	248.761	174.708	-86
248.796	174.732	-86	248.867	174.756	-86
248.867	174.767	-87	248.928	174.778	-89
248.99	174.79	-89	249.051	174.801	-89
249.113	174.813	-90	249.175	174.824	-91
249.236	174.836	-90	249.298	174.847	-91
249.359	174.859	-83	249.482	174.87	-91
249.482	174.874	-92	249.558	174.877	-91
249.634	174.881	-92	249.71	174.884	-91
249.786	174.887	-90	249.862	174.891	-91

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249.938	174.894	-91	250.014	174.898	-91
250.09	174.901	-91	250.241	174.904	-91
250.241	174.92	-91	250.302	174.936	-91
250.362	174.951	-91	250.422	174.967	-91
250.482	174.982	-90	250.542	174.998	-91
250.602	175.014	-87	250.663	175.029	-89
250.723	175.045	-91	250.843	175.06	-91
250.843	175.079	-92	250.935	175.097	-91
251.028	175.115	-92	251.12	175.133	-91
251.212	175.151	-93	251.305	175.17	-93
251.397	175.188	-93	251.489	175.206	-93
251.582	175.224	-94	251.766	175.242	-94
251.766	175.242	-94	251.854	175.241	-93
251.941	175.241	-94	252.029	175.24	-94
252.117	175.24	-94	252.204	175.239	-93
252.292	175.239	-94	252.38	175.238	-94
252.467	175.238	-94	252.642	175.237	-93
252.642	175.241	-94	252.74	175.245	-94
252.837	175.249	-93	252.935	175.252	-94
253.032	175.256	-93	253.129	175.26	-94
253.227	175.264	-95	253.324	175.268	-94
253.422	175.272	-94	253.616	175.275	-95
253.616	175.265	-95	253.707	175.254	-95
253.799	175.243	-95	253.89	175.233	-94
253.981	175.222	-95	254.072	175.211	-95
254.163	175.2	-96	254.254	175.19	-97
254.345	175.179	-97	254.527	175.168	-96
254.527	175.168	-98	254.627	175.168	-98
254.727	175.168	-99	254.827	175.168	-99
254.926	175.168	-98	255.026	175.168	-99
255.126	175.167	-99	255.226	175.167	-100
255.325	175.167	-100	255.525	175.167	-100
255.525	175.155	-100	255.617	175.142	-100

255.709	175.13	-101	255.801	175.117	-100
255.892	175.105	-101	255.984	175.092	-101
256.076	175.08	-99	256.168	175.067	-99
256.26	175.055	-100	256.444	175.042	-98
256.444	175.032	-96	256.535	175.022	-86
256.626	175.011	-96	256.718	175.001	-96
256.809	174.99	-96	256.9	174.98	-95
256.991	174.97	-84	257.083	174.959	-88
257.174	174.949	-88	257.356	174.939	-96
257.356	174.83	-98	257.698	174.722	-98
258.04	174.613	-95	258.382	174.504	-95
258.724	174.396	-98	259.065	174.287	-97
259.407	174.178	-98	259.749	174.07	-97
260.091	173.961	-98	260.774	173.853	-98
260.774	173.831	-97	260.796	173.81	-98
260.817	173.789	-98	260.838	173.768	-98
260.859	173.746	-98	260.881	173.725	-98
260.902	173.704	-99	260.923	173.683	-99
260.944	173.661	-99	260.987	173.64	-99
260.987	173.616	-98	260.987	173.592	-98
260.988	173.569	-99	260.988	173.545	-100
260.988	173.521	-101	260.988	173.497	-101
260.989	173.474	-101	260.989	173.45	-100
260.989	173.426	-100	260.99	173.402	-100
260.99	173.388	-99	260.986	173.375	-99
260.983	173.361	-98	260.979	173.347	-98
260.976	173.333	-99	260.972	173.319	-97
260.969	173.306	-99	260.966	173.292	-101

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260.962	173.278	-99	260.955	173.264	-100
260.955	173.227	-100	260.93	173.191	-100
260.905	173.154	-100	260.879	173.118	-99
260.854	173.081	-99	260.829	173.045	-100
260.803	173.008	-100	260.778	172.972	-99
260.753	172.935	-99	260.702	172.899	-98
260.702	172.892	-100	260.655	172.864	-99
260.609	172.847	-98	260.562	172.83	-99
260.516	172.813	-100	260.469	172.796	-87
260.423	172.779	-93	260.376	172.762	-91
260.33	172.745	-95	260.237	172.728	-93
260.237	172.709	-99	260.193	172.69	-98
260.148	172.671	-99	260.104	172.651	-99
260.06	172.632	-99	260.016	172.613	-99
259.972	172.594	-98	259.927	172.575	-99
259.883	172.556	-99	259.795	172.537	-100
259.795	172.517	-96	259.729	172.497	-100
259.664	172.478	-98	259.599	172.458	-98
259.534	172.438	-99	259.468	172.418	-99
259.403	172.398	-99	259.338	172.379	-98
259.273	172.359	-99	259.142	172.339	-99
259.142	172.327	-98	259.06	172.315	-99
258.978	172.302	-97	258.897	172.29	-97
258.815	172.278	-99	258.733	172.265	-98
258.651	172.253	-98	258.57	172.241	-97
258.488	172.229	-98	258.324	172.216	-97
258.324	172.2	-97	258.256	172.184	-96
258.188	172.168	-96	258.12	172.152	-97
258.052	172.136	-96	257.984	172.12	-95

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257.916	172.104	-95
257.78	172.071	-95
257.644	172.05	-95
257.52	172.038	-95
257.397	172.026	-93
257.273	172.015	-94
257.15	172.003	-95
257.026	171.984	-93
256.841	171.958	-93
256.656	171.933	-93
256.471	171.907	-92
256.286	171.881	-92
256.101	171.865	-92
255.951	171.861	-92
255.801	171.856	-92
255.65	171.852	-92
255.5	171.847	-92
255.35	171.852	-92
255.165	171.867	-92
254.98	171.882	-93
254.795	171.897	-94
254.61	171.912	-93
254.426	171.921	-93
254.269	171.924	-92
254.112	171.928	-92
253.954	171.931	-92
253.797	171.934	-93
253.64	171.95	-93
253.491	171.979	-91
253.342	172.007	-91
253.193	172.036	-91
253.044	172.064	-91
252.895	172.089	-91
252.772	172.11	-91
252.648	172.131	-90

257.848	172.088	-95
257.644	172.055	-95
257.582	172.044	-95
257.458	172.032	-94
257.335	172.021	-95
257.211	172.009	-94
257.026	171.997	-93
256.934	171.971	-92
256.749	171.946	-93
256.564	171.92	-92
256.379	171.894	-93
256.101	171.868	-92
256.026	171.863	-92
255.876	171.858	-92
255.725	171.854	-92
255.575	171.849	-92
255.35	171.845	-93
255.257	171.86	-92
255.072	171.875	-93
254.888	171.89	-93
254.703	171.905	-93
254.426	171.92	-92
254.347	171.923	-92
254.19	171.926	-92
254.033	171.929	-93
253.876	171.933	-92
253.64	171.936	-92
253.566	171.964	-92
253.417	171.993	-91
253.268	172.021	-90
253.119	172.05	-91
252.895	172.078	-91
252.834	172.099	-91
252.71	172.12	-90
252.587	172.141	-90

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252.525	172.152	-90
252.401	172.172	-90
252.278	172.192	-90
252.203	172.21	-90
252.129	172.228	-90
252.054	172.247	-90
251.98	172.265	-90
251.905	172.285	-89
251.827	172.308	-90
251.748	172.33	-90
251.669	172.352	-90
251.591	172.375	-91
251.512	172.403	-91
251.447	172.439	-90
251.383	172.474	-91
251.318	172.509	-89
251.254	172.544	-89
251.189	172.57	-89
251.18	172.586	-89
251.172	172.602	-89
251.163	172.618	-88
251.155	172.634	-89
251.146	172.663	-89
251.169	172.705	-86
251.193	172.746	-87
251.216	172.788	-87
251.239	172.83	-88
251.263	172.875	-90
251.303	172.921	-90
251.344	172.968	-89
251.384	173.014	-90
251.424	173.061	-89
251.465	173.096	-88
251.565	173.119	-89
251.665	173.141	-89

252.463	172.162	-89
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252.166	172.219	-90
252.091	172.238	-90
252.017	172.256	-89
251.905	172.274	-90
251.866	172.296	-90
251.787	172.319	-90
251.709	172.341	-90
251.63	172.363	-90
251.512	172.386	-90
251.48	172.421	-91
251.415	172.456	-90
251.35	172.491	-90
251.286	172.527	-89
251.189	172.562	-89
251.185	172.578	-89
251.176	172.594	-89
251.167	172.61	-89
251.159	172.626	-89
251.146	172.642	-90
251.158	172.684	-89
251.181	172.726	-88
251.204	172.767	-88
251.228	172.809	-88
251.263	172.851	-89
251.283	172.898	-90
251.323	172.944	-90
251.364	172.991	-89
251.404	173.037	-89
251.465	173.084	-89
251.515	173.107	-88
251.615	173.13	-89
251.715	173.153	-89

251.765 173.164 -89
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 251.964 173.204 -92
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 252.172 173.226 -92
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 254.051 173.467 -94
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 254.401 173.467 -94
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 253.701 173.467 -88
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 256.29 173.571 -98
 256.385 173.539 -100

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256.671	173.491	-99	256.767	173.475	-99
256.862	173.459	-101	256.957	173.443	-98
257.053	173.427	-101	257.243	173.411	-100
257.243	173.413	-101	257.32	173.415	-99
257.396	173.417	-101	257.472	173.419	-100
257.549	173.421	-101	257.625	173.423	-100
257.701	173.425	-101	257.778	173.427	-100
257.854	173.429	-101	258.006	173.431	-100
258.006	173.41	-102	258.105	173.388	-100
258.203	173.366	-101	258.302	173.344	-101
258.4	173.322	-100	258.499	173.301	-99
258.597	173.279	-98	258.696	173.257	-99
258.794	173.235	-99	258.991	173.214	-99
258.991	173.207	-99	259.061	173.201	-100
259.131	173.195	-98	259.201	173.189	-98
259.271	173.183	-98	259.341	173.177	-99
259.411	173.171	-97	259.482	173.165	-97
259.552	173.159	-98	259.692	173.152	-98
259.692	173.138	-97	259.765	173.124	-97
259.838	173.11	-97	259.912	173.097	-97
259.985	173.083	-98	260.058	173.069	-97
260.132	173.055	-96	260.205	173.041	-97
260.278	173.027	-98	260.425	173.013	-98
260.425	172.984	-97	260.472	172.955	-97
260.52	172.926	-98	260.567	172.898	-98
260.614	172.869	-97	260.662	172.84	-97
260.709	172.811	-99	260.757	172.782	-98

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260.804	172.754	-99	260.899	172.725	-99
260.899	172.711	-99	260.962	172.697	-99
261.026	172.683	-98	261.089	172.669	-99
261.153	172.655	-97	261.216	172.64	-98
261.28	172.626	-97	261.343	172.612	-97
261.407	172.598	-96	261.534	172.584	-96
261.534	172.563	-99	261.567	172.542	-97
261.601	172.522	-98	261.634	172.501	-97
261.668	172.48	-97	261.701	172.459	-98
261.735	172.438	-97	261.768	172.418	-97
261.802	172.397	-97	261.868	172.376	-96
261.868	172.351	-96	261.894	172.326	-97
261.921	172.301	-97	261.947	172.276	-95
261.973	172.251	-97	261.999	172.226	-96
262.025	172.201	-96	262.051	172.176	-96
262.077	172.15	-95	262.129	172.125	-96
262.129	172.112	-92	262.137	172.098	-91
262.145	172.085	-93	262.153	172.071	-93
262.161	172.058	-92	262.169	172.044	-97
262.177	172.031	-97	262.185	172.017	-97
262.194	172.004	-96	262.21	171.99	-97
262.21	171.965	-97	262.214	171.939	-96
262.219	171.913	-96	262.223	171.888	-97
262.227	171.862	-96	262.232	171.837	-96
262.236	171.811	-94	262.241	171.785	-91
262.245	171.76	-96	262.254	171.734	-92
262.254	171.711	-97	262.224	171.689	-96
262.193	171.666	-96	262.163	171.643	-97
262.133	171.621	-97	262.103	171.598	-97
262.073	171.575	-98	262.043	171.553	-98
262.013	171.53	-97	261.953	171.507	-98
261.953	171.479	-99	261.936	171.451	-99
261.923	171.422	-98	261.909	171.394	-98
261.894	171.366	-98	261.879	171.337	-98
261.865	171.309	-97	261.85	171.281	-98

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261.836	171.252	-98	261.806	171.224	-98
261.806	171.205	-98	261.764	171.185	-98
261.722	171.166	-98	261.68	171.147	-97
261.638	171.128	-98	261.596	171.109	-98
261.554	171.089	-98	261.512	171.07	-96
261.47	171.051	-97	261.386	171.032	-98
261.386	170.993	-98	261.292	170.954	-98
261.197	170.915	-97	261.193	170.876	-99
261.009	170.836	-98	260.914	170.797	-99
260.82	170.758	-98	260.726	170.719	-86
260.631	170.68	-87	260.443	170.641	-98
260.443	170.625	-97	260.365	170.602	-97
260.288	170.591	-98	260.211	170.574	-97
260.133	170.558	-87	260.056	170.541	-84
259.979	170.524	-87	259.901	170.507	-98
259.824	170.491	-97	259.67	170.474	-96
259.67	170.472	-98	259.606	170.47	-97
259.542	170.463	-98	259.478	170.466	-97
259.414	170.464	-97	259.35	170.462	-96
259.286	170.46	-97	259.222	170.457	-96
259.158	170.455	-96	259.03	170.453	-96
259.03	170.439	-95	258.963	170.424	-85
258.895	170.41	-87	258.828	170.395	-88
258.761	170.381	-88	258.693	170.367	-93
258.626	170.352	-92	258.558	170.338	-92
258.491	170.323	-92	258.356	170.309	-92
258.356	170.3	-92	258.273	170.291	-92
258.191	170.282	-91	258.108	170.273	-91
258.025	170.264	-92	257.943	170.254	-87
257.86	170.245	-91	257.777	170.236	-91
257.694	170.227	-91	257.529	170.218	-91
257.529	170.205	-91	257.44	170.191	-90
257.351	170.178	-91	257.263	170.164	-91
257.174	170.151	-90	257.085	170.137	-90
256.996	170.124	-91	256.907	170.11	-91

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256.818	170.097	-90
256.641	170.09	-91
256.452	170.104	-90
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256.075	170.131	-91
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255.698	170.144	-91
255.532	170.13	-91
255.366	170.115	-91
255.2	170.101	-90
255.034	170.066	-90
254.869	170.084	-85
254.705	170.094	-91
254.542	170.105	-91
254.376	170.115	-90
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253.894	170.134	-89
253.737	170.136	-90
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253.265	170.152	-90
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251.563	170.461	-86
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250.923	170.587	-85	170.593	-86
250.825	170.6	-85	170.606	-86
250.727	170.621	-85	170.626	-85
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250.554	170.681	-86	170.696	-86
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250.381	170.741	-87	170.756	-87
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250.242	170.822	-87	170.844	-87
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250.033	171.032	-88	171.051	-88
250.032	171.069	-89	171.088	-88
250.031	171.106	-87	171.125	-88
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249.925	171.346	-88	171.366	-88
249.899	171.384	-87	171.402	-88
249.854	171.42	-88	171.438	-88
249.809	171.456	-87	171.474	-87
249.764	171.492	-87	171.51	-87
249.719	171.528	-87	171.546	-87
249.674	171.556	-88	171.586	-88
249.685	171.577	-89	171.587	-88
249.695	171.598	-87	171.608	-88
249.705	171.619	-88	171.629	-88

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251.356	170.522	-86
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249.674	171.546	-87
249.679	171.566	-88
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251.299	172.425	-89
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251.525	172.489	-90
251.637	172.521	-90
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251.894	172.567	-87
252.038	172.588	-87
252.182	172.608	-89
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252.583	172.692	-93
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252.809	172.764	-92

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249.797	171.711	-88
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249.991	171.866	-89
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251.005	172.352	-89
251.186	172.376	-89
251.243	172.409	-89
251.356	172.441	-89
251.468	172.473	-89
251.581	172.505	-90
251.75	172.537	-89
251.822	172.557	-88
251.966	172.578	-87
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252.254	172.618	-89
252.47	172.638	-90
252.526	172.674	-93
252.639	172.71	-93
252.752	172.746	-92
252.866	172.782	-92

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252.922	172.801	-91	253.035	172.819	-91
253.035	172.833	-91	253.105	172.847	-90
253.175	172.861	-91	253.245	172.875	-91
253.315	172.889	-91	253.385	172.903	-90
253.455	172.917	-90	253.525	172.931	-91
253.595	172.946	-92	253.736	172.96	-92
253.736	172.958	-92	253.835	172.957	-92
253.935	172.955	-92	254.035	172.953	-92
254.135	172.952	-92	254.235	172.95	-93
254.335	172.949	-93	254.435	172.947	-93
254.535	172.946	-94	254.734	172.944	-95
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254.907	172.951	-96	254.994	172.953	-96
255.08	172.955	-98	255.167	172.958	-97
255.253	172.96	-96	255.34	172.962	-96
255.426	172.964	-96	255.599	172.967	-96
255.599	172.969	-95	255.697	172.972	-96
255.795	172.974	-95	255.893	172.977	-91
255.991	172.98	-90	256.088	172.982	-87
256.186	172.985	-87	256.284	172.987	-93
256.382	172.99	-93	256.577	172.992	-87
256.577	172.999	-86	256.673	173.005	-87
256.768	173.012	-86	256.864	173.018	-86
256.96	173.024	-93	257.055	173.031	-94
257.151	173.037	-93	257.247	173.044	-92
257.343	173.05	-93	257.534	173.057	-94
257.534	173.067	-94	257.616	173.077	-93
257.699	173.087	-93	257.781	173.097	-94
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258.029	173.128	-94	258.111	173.138	-94
258.194	173.148	-94	258.359	173.158	-95
258.359	173.169	-93	258.453	173.179	-93
258.548	173.19	-93	258.643	173.2	-93
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259.306	173.286	-92	259.635	173.31	-92
259.963	173.334	-93	260.291	173.357	-92
260.62	173.381	-86	260.948	173.405	-89
261.277	173.429	-89	261.605	173.452	-89
261.934	173.476	-93	262.59	173.5	-93
262.59	173.508	-93	262.685	173.516	-93
262.78	173.524	-92	262.875	173.532	-92
262.97	173.54	-93	263.065	173.548	-93
263.16	173.556	-90	263.255	173.565	-90
263.35	173.573	-93	263.54	173.581	-93
263.54	173.593	-93	263.623	173.604	-92
263.706	173.616	-94	263.789	173.628	-92
263.872	173.64	-95	263.954	173.652	-96
264.037	173.663	-96	264.12	173.675	-99
264.203	173.687	-98	264.369	173.699	-98
264.369	173.705	-94	264.475	173.711	-94
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265.219	173.755	-91	265.431	173.761	-92
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265.56	173.771	-98	265.624	173.774	-98
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265.817	173.784	-95	265.892	173.787	-95
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266.075	173.819	-96	266.141	173.844	-95
266.206	173.869	-96	266.272	173.893	-95
266.337	173.918	-96	266.403	173.943	-95
266.469	173.968	-95	266.534	173.993	-95
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257.227	174.83	-88	257.135	174.841	-87
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256.321	174.899	-86	256.235	174.897	-87
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252.365	174.842	-86
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248.49	174.955	-92

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245.609	175.714	-89
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245.629	175.799	-84
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245.888	175.968	-90

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247.637	175.074	-92
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247.355	175.123	-91
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247.077	175.168	-90
246.937	175.19	-90
246.728	175.213	-90
246.679	175.244	-90
246.58	175.276	-89
246.481	175.307	-89
246.382	175.339	-89
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245.928	175.983	-90

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246.301	176.261	-91	246.364	176.275	-92
246.426	176.288	-93	246.488	176.301	-93
246.55	176.315	-92	246.613	176.328	-92
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248.89	176.587	-89	248.989	176.585	-90
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265.797	176.877	-91	265.745	176.896	-90
265.745	176.917	-90	265.696	176.938	-90
265.647	176.959	-90	265.598	176.98	-90
265.549	177.001	-90	265.5	177.022	-90
265.451	177.043	-90	265.402	177.064	-91
265.353	177.085	-91	265.255	177.106	-90
265.255	177.113	-91	265.232	177.121	-91
265.209	177.128	-91	265.186	177.135	-91
265.163	177.143	-91	265.14	177.15	-91
265.116	177.158	-91	265.093	177.165	-91
265.07	177.172	-92	265.024	177.18	-92
265.024	177.195	-92	264.998	177.21	-92
264.972	177.226	-93	264.947	177.241	-92
264.921	177.256	-88	264.895	177.271	-88
264.87	177.287	-92	264.844	177.302	-93
264.818	177.317	-92	264.767	177.332	-91
264.767	177.352	-88	264.764	177.371	-87
264.761	177.391	-88	264.758	177.41	-92
264.756	177.43	-92	264.753	177.449	-92
264.75	177.469	-92	264.747	177.488	-91
264.745	177.508	-87	264.739	177.527	-91
264.739	177.547	-90	264.736	177.566	-91
264.732	177.586	-90	264.729	177.605	-90
264.725	177.625	-89	264.722	177.644	-90
264.718	177.664	-90	264.714	177.683	-90
264.711	177.703	-89	264.704	177.722	-89
264.704	177.741	-89	264.678	177.761	-89
264.652	177.78	-90	264.627	177.799	-89
264.601	177.819	-89	264.575	177.838	-90
264.549	177.857	-89	264.523	177.877	-90
264.498	177.896	-90	264.446	177.915	-89
264.446	177.933	-89	264.433	177.95	-90
264.42	177.968	-90	264.408	177.985	-90
264.395	178.003	-90	264.382	178.02	-91

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264.369	178.038	-90	264.356	178.055	-91
264.343	178.072	-90	264.317	178.09	-90
264.317	178.105	-90	264.281	178.12	-90
264.246	178.136	-91	264.21	178.151	-91
264.174	178.166	-91	264.138	178.182	-92
264.102	178.197	-90	264.066	178.212	-91
264.03	178.228	-92	263.958	178.243	-92
263.958	178.25	-92	263.935	178.258	-91
263.913	178.265	-91	263.89	178.273	-92
263.868	178.281	-92	263.845	178.288	-92
263.823	178.296	-91	263.8	178.303	-92
263.777	178.311	-92	263.732	178.318	-91
263.732	178.336	-92	263.72	178.353	-92
263.708	178.371	-92	263.695	178.388	-96
263.683	178.406	-93	263.671	178.423	-93
263.658	178.441	-93	263.646	178.458	-93
263.634	178.476	-93	263.609	178.493	-93
263.609	178.515	-93	263.551	178.536	-93
263.494	178.557	-94	263.436	178.579	-94
263.379	178.6	-94	263.321	178.621	-94
263.264	178.643	-93	263.206	178.664	-94
263.148	178.685	-95	263.033	178.707	-94
263.033	178.714	-92	263	178.722	-95
262.966	178.729	-95	262.933	178.737	-95
262.899	178.744	-95	262.866	178.752	-94
262.832	178.76	-95	262.799	178.767	-94
262.765	178.775	-94	262.698	178.782	-94
262.698	178.802	-94	262.652	178.821	-95
262.607	178.841	-93	262.561	178.86	-95
262.515	178.88	-94	262.469	178.899	-95
262.424	178.919	-93	262.378	178.938	-99
262.332	178.958	-95	262.241	178.977	-94
262.241	178.999	-95	262.208	179.02	-95
262.174	179.042	-95	262.141	179.063	-95
262.108	179.085	-95	262.075	179.107	-95

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262.041	179.128	-96	262.008	179.15	-95
261.975	179.172	-95	261.908	179.193	-96
261.908	179.201	-96	261.864	179.208	-95
261.819	179.216	-96	261.775	179.224	-96
261.73	179.231	-95	261.686	179.239	-96
261.641	179.246	-96	261.597	179.254	-95
261.552	179.262	-97	261.463	179.269	-96
261.463	179.291	-94	261.397	179.313	-96
261.33	179.334	-96	261.263	179.356	-96
261.197	179.378	-95	261.13	179.399	-95
261.064	179.421	-95	260.997	179.443	-96
260.931	179.464	-96	260.798	179.486	-96
260.798	179.493	-97	260.743	179.501	-97
260.688	179.509	-96	260.634	179.516	-96
260.579	179.524	-96	260.524	179.532	-96
260.47	179.54	-96	260.415	179.547	-96
260.361	179.555	-96	260.251	179.563	-95
260.251	179.578	-89	260.185	179.594	-89
260.119	179.61	-96	260.053	179.626	-95
259.987	179.642	-96	259.921	179.658	-94
259.855	179.674	-95	259.789	179.69	-95
259.723	179.705	-87	259.591	179.721	-95
259.591	179.731	-95	259.536	179.741	-95
259.48	179.751	-94	259.425	179.76	-88
259.369	179.77	-89	259.314	179.78	-94
259.258	179.79	-93	259.203	179.8	-92
259.148	179.809	-93	259.037	179.819	-93
259.037	179.827	-92	258.982	179.835	-92
258.928	179.843	-93	258.873	179.85	-93
258.819	179.858	-92	258.765	179.866	-92
258.71	179.874	-92	258.656	179.882	-92
258.602	179.889	-93	258.493	179.897	-92
258.493	179.915	-92	258.427	179.933	-93
258.361	179.951	-92	258.296	179.969	-92
258.23	179.987	-91	258.165	180.005	-92

258.099	180.023	-92
257.968	180.059	-92
257.837	180.099	-92
257.727	180.143	-90
257.617	180.187	-91
257.506	180.231	-91
257.396	180.276	-91
257.286	180.306	-91
257.201	180.321	-91
257.115	180.337	-90
257.029	180.353	-90
256.944	180.369	-90
256.858	180.397	-90
256.771	180.437	-90
256.684	180.478	-89
256.598	180.518	-89
256.511	180.558	-89
256.424	180.599	-89
256.338	180.639	-89
256.252	180.68	-89
256.166	180.72	-89
256.08	180.76	-89
255.994	180.797	-88
255.887	180.829	-89
255.78	180.862	-88
255.674	180.894	-88
255.567	180.926	-88
255.46	180.961	-88
255.375	180.997	-88
255.29	181.034	-88
255.204	181.071	-88
255.119	181.107	-88
255.034	181.144	-87
254.973	181.18	-87
254.913	181.217	-87

258.033	180.041	-92
257.837	180.077	-91
257.782	180.121	-91
257.672	180.165	-91
257.561	180.209	-91
257.451	180.253	-91
257.286	180.298	-91
257.244	180.313	-91
257.158	180.329	-91
257.072	180.345	-91
256.987	180.361	-90
256.858	180.377	-90
256.815	180.417	-90
256.728	180.458	-89
256.641	180.498	-89
256.554	180.538	-89
256.424	180.579	-89
256.381	180.619	-89
256.295	180.659	-89
256.209	180.7	-88
256.123	180.74	-89
255.994	180.781	-89
255.94	180.813	-89
255.834	180.845	-89
255.727	180.878	-89
255.62	180.91	-88
255.46	180.943	-88
255.418	180.979	-88
255.332	181.016	-88
255.247	181.052	-88
255.162	181.089	-87
255.034	181.125	-88
255.003	181.162	-88
254.943	181.199	-87
254.883	181.235	-87

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254.852	181.253	-87	254.822	181.272	-88
254.792	181.29	-88	254.732	181.308	-88
254.732	181.325	-88	254.689	181.341	-88
254.647	181.357	-88	254.604	181.373	-88
254.562	181.39	-88	254.52	181.406	-88
254.477	181.422	-88	254.435	181.439	-88
254.392	181.455	-87	254.308	181.471	-88
254.308	181.5	-88	254.267	181.529	-88
254.226	181.557	-88	254.185	181.586	-88
254.145	181.615	-88	254.104	181.643	-89
254.063	181.672	-88	254.023	181.701	-88
253.982	181.729	-88	253.9	181.758	-88
253.9	181.777	-88	253.859	181.795	-88
253.817	181.814	-88	253.776	181.832	-88
253.734	181.851	-88	253.692	181.869	-89
253.651	181.888	-89	253.609	181.906	-87
253.568	181.925	-88	253.484	181.943	-88
253.484	181.96	-88	253.454	181.976	-88
253.424	181.992	-89	253.393	182.009	-89
253.363	182.025	-88	253.332	182.042	-89
253.302	182.058	-89	253.272	182.074	-88
253.241	182.091	-88	253.18	182.107	-88
253.18	182.124	-88	253.15	182.14	-89
253.12	182.156	-88	253.09	182.173	-88
253.06	182.189	-88	253.029	182.206	-88
252.999	182.222	-88	252.969	182.239	-88
252.939	182.255	-88	252.878	182.272	-88
252.878	182.29	-89	252.849	182.309	-89
252.819	182.327	-89	252.79	182.346	-88
252.76	182.364	-87	252.731	182.383	-88
252.701	182.401	-88	252.671	182.42	-88
252.642	182.439	-87	252.583	182.457	-88
252.583	182.482	-88	252.554	182.507	-89
252.526	182.531	-88	252.498	182.556	-88
252.47	182.581	-89	252.441	182.605	-89

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252.413	182.63	-89
252.357	182.679	-88
252.3	182.729	-89
252.245	182.778	-89
252.189	182.828	-88
252.134	182.877	-89
252.078	182.927	-89
252.023	182.983	-89
251.971	183.045	-89
251.919	183.107	-89
251.867	183.169	-87
251.816	183.232	-89
251.764	183.277	-87
251.705	183.306	-89
251.647	183.335	-89
251.588	183.365	-89
251.529	183.394	-89
251.471	183.435	-89
251.441	183.489	-88
251.412	183.542	-89
251.382	183.596	-89
251.353	183.65	-89
251.324	183.693	-89
251.289	183.726	-89
251.255	183.76	-89
251.221	183.793	-89
251.187	183.826	-89
251.153	183.867	-89
251.079	183.918	-89
251.005	183.968	-89
250.931	184.018	-89
250.857	184.069	-88
250.783	184.119	-88
250.755	184.168	-89
250.727	184.218	-89

252.385	182.655	-88
252.3	182.704	-89
252.273	182.754	-89
252.217	182.803	-88
252.161	182.853	-88
252.106	182.902	-89
252.023	182.952	-89
251.997	183.014	-88
251.945	183.076	-88
251.893	183.138	-87
251.842	183.2	-89
251.764	183.263	-89
251.735	183.292	-89
251.676	183.321	-89
251.617	183.35	-89
251.559	183.379	-89
251.471	183.408	-90
251.456	183.462	-89
251.427	183.516	-89
251.397	183.569	-88
251.368	183.623	-89
251.324	183.677	-89
251.306	183.71	-89
251.272	183.743	-89
251.238	183.776	-89
251.204	183.809	-89
251.153	183.842	-89
251.116	183.893	-89
251.042	183.943	-89
250.968	183.993	-88
250.894	184.044	-89
250.783	184.094	-88
250.769	184.143	-89
250.741	184.193	-89
250.713	184.243	-89

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250.699	184.268	-90
250.671	184.317	-89
250.643	184.372	-89
250.596	184.43	-88
250.55	184.489	-89
250.503	184.547	-90
250.456	184.606	-89
250.409	184.65	-89
250.331	184.68	-90
250.253	184.71	-89
250.174	184.74	-88
250.096	184.77	-88
250.017	184.812	-88
249.971	184.867	-89
249.924	184.921	-89
249.878	184.976	-89
249.832	185.03	-89
249.785	185.075	-90
249.732	185.108	-90
249.678	185.142	-90
249.625	185.176	-91
249.572	185.21	-90
249.518	185.263	-88
249.458	185.335	-88
249.398	185.407	-90
249.337	185.478	-91
249.277	185.55	-90
249.216	185.601	-90
249.164	185.631	-91
249.112	185.66	-91
249.06	185.69	-92
249.008	185.72	-92
248.956	185.763	-92
248.869	185.819	-94
248.781	185.875	-94

250.685	184.293	-90
250.643	184.342	-89
250.62	184.401	-89
250.573	184.459	-89
250.526	184.518	-89
250.479	184.577	-89
250.409	184.635	-88
250.37	184.665	-89
250.292	184.695	-90
250.213	184.725	-89
250.135	184.755	-88
250.017	184.785	-88
249.994	184.839	-89
249.948	184.894	-89
249.901	184.949	-88
249.855	185.003	-89
249.785	185.058	-89
249.758	185.092	-90
249.705	185.125	-90
249.652	185.159	-91
249.598	185.193	-90
249.518	185.227	-90
249.488	185.299	-88
249.428	185.371	-90
249.367	185.442	-90
249.307	185.514	-91
249.216	185.586	-91
249.19	185.616	-90
249.138	185.646	-91
249.066	185.675	-92
249.034	185.705	-92
248.956	185.735	-92
248.913	185.791	-93
248.825	185.847	-94
248.738	185.903	-93

248.694	185.931	-94
248.606	185.987	-94
248.519	186.042	-94
248.499	186.097	-94
248.48	186.151	-94
248.461	186.206	-95
248.442	186.26	-94
248.422	186.302	-95
248.392	186.332	-96
248.362	186.361	-96
248.332	186.391	-96
248.302	186.42	-96
248.273	186.465	-95
248.234	186.524	-95
248.196	186.583	-97
248.158	186.642	-96
248.12	186.701	-94
248.082	186.758	-94
248.041	186.813	-89
248	186.869	-89
247.96	186.924	-96
247.919	186.979	-95
247.878	187.036	-95
247.865	187.095	-91
247.852	187.154	-95
247.839	187.213	-97
247.825	187.272	-95
247.812	187.327	-98
247.816	187.377	-97
247.82	187.426	-97
247.824	187.476	-98
247.828	187.526	-98
247.831	187.57	-98
247.809	187.608	-98
247.786	187.646	-97

248.65	185.959	-95
248.519	186.015	-94
248.509	186.069	-94
248.49	186.124	-94
248.471	186.178	-94
248.451	186.233	-95
248.422	186.287	-93
248.407	186.317	-96
248.377	186.347	-96
248.347	186.376	-96
248.317	186.406	-96
248.273	186.435	-97
248.253	186.494	-95
248.215	186.553	-97
248.177	186.612	-98
248.139	186.671	-97
248.082	186.73	-93
248.062	186.786	-95
248.021	186.841	-89
247.98	186.896	-97
247.939	186.952	-95
247.878	187.007	-95
247.871	187.066	-95
247.858	187.125	-98
247.845	187.184	-96
247.832	187.243	-97
247.812	187.302	-97
247.814	187.352	-97
247.818	187.402	-97
247.822	187.451	-98
247.826	187.501	-97
247.831	187.551	-96
247.82	187.589	-98
247.797	187.627	-99
247.775	187.665	-99

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247.763	187.684	-99	247.752	187.703	-100
247.741	187.722	-98	247.718	187.74	-99
247.718	187.766	-100	247.699	187.792	-99
247.681	187.817	-99	247.662	187.843	-100
247.643	187.869	-100	247.625	187.894	-99
247.606	187.92	-99	247.587	187.946	-99
247.569	187.971	-98	247.532	187.997	-100
247.532	188.024	-99	247.537	188.051	-103
247.542	188.078	-99	247.548	188.105	-101
247.553	188.132	-101	247.558	188.159	-101
247.564	188.186	-98	247.569	188.213	-99
247.574	188.24	-100	247.585	188.267	-100
247.595	188.293	-102	247.567	188.319	-100
247.55	188.344	-102	247.532	188.37	-100
247.515	188.396	-98	247.497	188.421	-100
247.479	188.447	-101	247.461	188.473	-100
247.444	188.498	-99	247.408	188.524	-95
247.408	188.552	-95	247.392	188.58	-95
247.375	188.608	-94	247.358	188.636	-93
247.341	188.663	-98	247.324	188.691	-97
247.307	188.719	-97	247.291	188.747	-95
247.274	188.775	-95	247.24	188.803	-96
247.24	188.837	-96	247.229	188.871	-97
247.217	188.905	-95	247.206	188.939	-95

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247.195	188.973	-96	247.183	189.007	-96
247.172	189.041	-96	247.161	189.075	-94
247.149	189.109	-95	247.127	189.143	-95
247.127	189.187	-95	247.113	189.232	-95
247.099	189.276	-95	247.085	189.321	-93
247.072	189.366	-95	247.058	189.41	-95
247.044	189.455	-93	247.031	189.499	-93
247.017	189.544	-94	246.989	189.589	-93
246.989	189.61	-93	246.981	189.631	-92
246.973	189.652	-93	246.965	189.673	-93
246.957	189.695	-91	246.949	189.716	-93
246.941	189.737	-91	246.933	189.758	-92
246.925	189.779	-91	246.908	189.801	-92
246.908	189.828	-92	246.895	189.856	-92
246.882	189.884	-92	246.868	189.912	-92
246.855	189.94	-92	246.842	189.968	-91
246.828	189.996	-92	246.815	190.024	-92
246.802	190.052	-91	246.775	190.08	-92
246.775	190.107	-92	246.785	190.134	-92
246.794	190.161	-91	246.803	190.188	-92
246.813	190.215	-93	246.822	190.242	-92
246.831	190.269	-92	246.841	190.297	-93
246.85	190.324	-93	246.869	190.351	-93
246.869	190.376	-94	246.876	190.401	-94
246.884	190.426	-94	246.891	190.451	-94
246.898	190.476	-95	246.906	190.501	-95
246.913	190.526	-95	246.92	190.551	-94
246.927	190.576	-95	246.942	190.601	-95
246.942	190.63	-96	246.954	190.658	-96
246.966	190.687	-96	246.978	190.716	-95
246.99	190.745	-95	247.002	190.774	-95
247.013	190.803	-95	247.025	190.832	-94
247.037	190.861	-94	247.061	190.89	-92
247.061	190.905	-94	247.061	190.919	-95
247.061	190.934	-92	247.061	190.948	-95

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247.061	190.963	-95	247.062	190.972	-96
247.062	190.992	-96	247.062	191.007	-97
247.062	191.022	-96	247.062	191.036	-96
247.062	191.074	-97	247.07	191.112	-96
247.077	191.15	-96	247.085	191.188	-97
247.092	191.225	-96	247.1	191.263	-98
247.108	191.301	-98	247.115	191.339	-97
247.123	191.377	-99	247.138	191.415	-98
247.138	191.427	-98	247.138	191.44	-95
247.138	191.452	-97	247.137	191.465	-98
247.137	191.477	-98	247.137	191.49	-98
247.137	191.502	-98	247.137	191.515	-97
247.137	191.527	-97	247.136	191.539	-98
247.136	191.565	-97	247.125	191.591	-96
247.113	191.617	-98	247.101	191.643	-97
247.09	191.669	-98	247.078	191.695	-98
247.066	191.721	-97	247.055	191.747	-98
247.043	191.772	-97	247.02	191.798	-97
247.02	191.837	-96	247.019	191.875	-98
247.019	191.913	-98	247.018	191.952	-97
247.018	191.99	-98	247.018	192.028	-96
247.017	192.066	-98	247.017	192.105	-97
247.016	192.143	-99	247.015	192.181	-98
247.015	192.207	-98	246.971	192.232	-97
246.926	192.257	-99	246.882	192.283	-99
246.837	192.308	-97	246.793	192.334	-96
246.748	192.359	-95	246.704	192.384	-97
246.659	192.41	-96	246.57	192.435	-96
246.57	192.455	-93	246.509	192.475	-96
246.449	192.495	-97	246.388	192.515	-97
246.327	192.535	-96	246.267	192.555	-97
246.206	192.575	-98	246.145	192.594	-98
246.085	192.614	-99	245.963	192.634	-98
245.963	192.649	-97	245.876	192.664	-97
245.789	192.679	-96	245.702	192.694	-96

245.615 192.709 -96
245.441 192.739 -96
245.267 192.769 -96
245.093 192.806 -94
244.91 192.849 -93
244.726 192.893 -92
244.542 192.937 -92
244.358 192.981 -91
244.174 193.009 -92
243.94 193.021 -92
243.705 193.033 -93
243.471 193.045 -93
243.236 193.057 -93
243.002 193.067 -93
242.786 193.074 -92
242.569 193.08 -93
242.353 193.087 -93
242.137 193.094 -92
241.92 193.104 -91
241.662 193.118 -92
241.404 193.131 -90
241.146 193.145 -91
240.887 193.159 -90
240.629 193.164 -90
240.357 193.16 -90
240.085 193.157 -89
239.813 193.154 -89
239.542 193.151 -88
239.27 193.154 -88
239.01 193.164 -89
238.75 193.174 -89
238.49 193.183 -89
238.23 193.193 -89
237.97 193.192 -89
237.761 193.182 -88

245.528 192.724 -96
245.354 192.754 -95
245.093 192.784 -94
245.002 192.827 -94
244.818 192.871 -93
244.634 192.915 -92
244.45 192.959 -92
244.174 193.003 -92
244.057 193.015 -91
243.822 193.027 -92
243.588 193.039 -93
243.353 193.051 -93
243.002 193.063 -93
242.894 193.07 -92
242.677 193.077 -93
242.461 193.084 -93
242.245 193.091 -93
241.92 193.097 -92
241.791 193.111 -92
241.533 193.125 -91
241.275 193.138 -91
241.016 193.152 -90
240.629 193.165 -90
240.493 193.162 -90
240.221 193.159 -89
239.949 193.156 -89
239.678 193.153 -89
239.27 193.149 -88
239.14 193.159 -88
238.88 193.169 -88
238.62 193.178 -89
238.36 193.188 -89
237.97 193.198 -89
237.866 193.187 -89
237.656 193.176 -88

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237.552	193.171	-88	237.447	193.166	-88
237.342	193.16	-88	237.238	193.155	-88
237.133	193.15	-88	236.924	193.144	-88
236.924	193.117	-88	236.809	193.09	-88
236.694	193.062	-88	236.579	193.035	-88
236.465	193.006	-87	236.35	192.981	-87
236.235	192.953	-87	236.12	192.926	-87
236.005	192.899	-87	235.776	192.871	-87
235.776	192.855	-87	235.672	192.838	-87
235.568	192.821	-88	235.464	192.805	-87
235.36	192.788	-87	235.256	192.771	-87
235.153	192.755	-87	235.049	192.738	-87
234.945	192.722	-87	234.737	192.705	-87
234.737	192.683	-87	234.651	192.66	-87
234.565	192.638	-87	234.478	192.616	-87
234.392	192.594	-87	234.306	192.571	-87
234.219	192.549	-87	234.133	192.527	-88
234.047	192.505	-87	233.874	192.482	-88
233.874	192.458	-88	233.775	192.434	-88
233.676	192.41	-87	233.577	192.386	-87
233.478	192.362	-88	233.38	192.338	-87
233.281	192.314	-87	233.182	192.29	-87
233.083	192.265	-87	232.985	192.241	-87
232.885	192.219	-87	232.789	192.197	-87
232.692	192.175	-87	232.595	192.153	-86
232.499	192.131	-87	232.402	192.109	-87
232.305	192.087	-87	232.209	192.065	-87
232.112	192.043	-88	231.919	192.021	-88
231.919	191.998	-88	231.845	191.974	-89
231.77	191.951	-89	231.696	191.928	-89
231.622	191.904	-89	231.548	191.881	-88
231.473	191.858	-89	231.399	191.834	-89
231.325	191.811	-88	231.176	191.788	-89
231.176	191.767	-89	231.104	191.745	-89
231.032	191.724	-89	230.96	191.703	-89

230.888	191.682	-90
230.744	191.639	-89
230.6	191.597	-89
230.456	191.546	-90
230.254	191.488	-90
230.053	191.43	-90
229.852	191.372	-90
229.651	191.314	-90
229.449	191.261	-90
229.303	191.213	-90
229.157	191.166	-90
229.011	191.118	-90
228.865	191.071	-90
228.719	191.023	-90
228.551	190.977	-89
228.384	190.93	-90
228.216	190.883	-90
228.048	190.836	-90
227.881	190.78	-90
227.724	190.714	-90
227.566	190.648	-91
227.409	190.582	-91
227.252	190.516	-91
227.095	190.457	-91
226.904	190.406	-91
226.713	190.355	-91
226.522	190.304	-92
226.331	190.253	-92
226.14	190.21	-91
225.961	190.177	-91
225.783	190.144	-91
225.605	190.111	-92
225.427	190.078	-92
225.248	190.038	-93
225.062	189.99	-93

230.816	191.66	-89
230.672	191.618	-90
230.456	191.576	-89
230.355	191.517	-89
230.154	191.459	-89
229.953	191.401	-89
229.751	191.343	-89
229.449	191.285	-90
229.376	191.237	-90
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229.084	191.142	-90
228.938	191.094	-90
228.719	191.047	-90
228.635	191	-90
228.467	190.953	-89
228.3	190.906	-90
228.132	190.86	-89
227.881	190.813	-89
227.802	190.747	-90
227.645	190.681	-91
227.488	190.615	-91
227.331	190.549	-90
227.095	190.483	-91
226.999	190.432	-88
226.808	190.38	-91
226.617	190.329	-92
226.426	190.278	-92
226.14	190.227	-92
226.05	190.194	-92
225.872	190.161	-92
225.694	190.128	-92
225.516	190.094	-93
225.248	190.061	-93
225.155	190.014	-92
224.968	189.967	-92

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224.875	189.943	-93	224.782	189.919	-94
224.688	189.896	-94	224.595	189.872	-94
224.502	189.848	-92	224.315	189.825	-93
224.315	189.801	-93	224.234	189.776	-92
224.153	189.752	-93	224.072	189.728	-93
223.991	189.703	-93	223.91	189.679	-93
223.829	189.655	-93	223.749	189.63	-93
223.668	189.606	-93	223.506	189.582	-93
223.506	189.557	-93	223.423	189.533	-93
223.341	189.508	-92	223.258	189.484	-91
223.176	189.46	-93	223.093	189.435	-92
223.011	189.411	-92	222.929	189.386	-92
222.846	189.362	-93	222.681	189.338	-93
222.681	189.304	-92	222.585	189.271	-91
222.488	189.237	-91	222.391	189.204	-90
222.295	189.171	-90	222.198	189.137	-90
222.101	189.104	-90	222.005	189.07	-90
221.908	189.037	-90	221.715	189.004	-90
221.715	188.98	-89	221.612	188.956	-89
221.509	188.932	-89	221.406	188.908	-89
221.303	188.884	-89	221.2	188.86	-89
221.097	188.836	-89	220.994	188.812	-89
220.891	188.788	-89	220.686	188.764	-89
220.686	188.736	-89	220.604	188.709	-89
220.523	188.681	-89	220.441	188.654	-89
220.36	188.627	-89	220.278	188.599	-88
220.197	188.572	-88	220.115	188.544	-88
220.034	188.517	-88	219.871	188.49	-88
219.871	188.467	-88	219.792	188.444	-87
219.714	188.421	-87	219.635	188.398	-87
219.557	188.375	-87	219.478	188.352	-88
219.4	188.33	-88	219.321	188.307	-88
219.243	188.284	-88	219.085	188.261	-88
219.085	188.233	-89	219.006	188.205	-89
218.926	188.178	-89	218.847	188.15	-89

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218.767	188.122	-89
218.606	188.066	-89
218.449	188.011	-89
218.29	187.958	-90
218.109	187.907	-89
217.929	187.857	-90
217.749	187.807	-90
217.568	187.756	-90
217.388	187.705	-90
217.231	187.654	-89
217.074	187.602	-89
216.917	187.551	-89
216.759	187.499	-90
216.602	187.441	-90
216.395	187.377	-91
216.188	187.312	-89
215.98	187.248	-90
215.773	187.183	-73
215.566	187.125	-89
215.41	187.072	-90
215.255	187.02	-90
215.1	186.968	-90
214.944	186.915	-112
214.789	186.863	-98
214.635	186.81	-90
214.48	186.758	-89
214.326	186.705	-90
214.172	186.652	-90
214.018	186.592	-90
213.833	186.526	-91
213.659	186.459	-92
213.479	186.392	-91
213.3	186.326	-91
213.121	186.268	-91

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218.528	188.039	-89
218.29	187.983	-90
218.199	187.933	-90
218.019	187.882	-90
217.839	187.832	-90
217.658	187.782	-90
217.388	187.731	-90
217.309	187.68	-90
217.152	187.628	-90
216.995	187.577	-90
216.838	187.525	-90
216.602	187.473	-89
216.499	187.409	-91
216.291	187.344	-91
216.084	187.28	-90
215.877	187.215	-90
215.566	187.151	-90
215.488	187.099	-90
215.333	187.046	-90
215.177	186.994	-90
215.022	186.941	-90
214.789	186.889	-92
214.712	186.837	-115
214.558	186.784	-89
214.403	186.731	-90
214.249	186.679	-90
214.018	186.626	-90
213.928	186.559	-91
213.749	186.492	-92
213.569	186.426	-92
213.39	186.359	-91
213.121	186.292	-91
213.045	186.244	-91

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212.97	186.219	-90
212.819	186.171	-89
212.669	186.122	-88
212.518	186.073	-89
212.367	186.022	-87
212.216	185.968	-87
212.064	185.914	-88
211.912	185.861	-87
211.761	185.807	-86
211.609	185.752	-87
211.479	185.698	-87
211.349	185.643	-87
211.219	185.588	-88
211.089	185.534	-87
210.959	185.467	-87
210.801	185.388	-87
210.644	185.309	-87
210.486	185.23	-87
210.329	185.151	-87
210.171	185.086	-87
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209.797	184.934	-87
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209.548	184.823	-86
209.44	184.752	-86
209.331	184.682	-86
209.222	184.611	-86
209.114	184.54	-86
209.005	184.462	-86
208.863	184.436	-86
208.721	184.39	-86
208.58	184.344	-85
208.438	184.299	-86
208.296	184.233	-115

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212.744	186.146	-89
212.593	186.098	-88
212.367	186.049	-88
212.291	185.995	-88
212.14	185.941	-87
211.988	185.888	-87
211.837	185.834	-87
211.689	185.78	-87
211.544	185.725	-87
211.414	185.67	-87
211.284	185.616	-88
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210.959	185.506	-87
210.88	185.427	-87
210.723	185.348	-87
210.565	185.269	-87
210.408	185.19	-87
210.171	185.111	-87
210.109	185.061	-87
209.984	185.01	-87
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209.548	184.859	-87
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209.005	184.505	-86
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208.792	184.413	-86
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208.509	184.321	-86
208.296	184.276	-86
208.22	184.19	-93

208.143	184.147	-93
207.991	184.061	-85
207.838	183.975	-115
207.685	183.889	-95
207.533	183.821	-85
207.387	183.769	-85
207.242	183.718	-84
207.097	183.666	-85
206.952	183.615	-84
206.807	183.563	-84
206.687	183.511	-84
206.569	183.459	-84
206.448	183.406	-84
206.328	183.354	-51
206.208	183.292	-83
206.041	183.22	-83
205.873	183.149	-83
205.706	183.077	-83
205.538	183.005	-82
205.371	182.94	-82
205.229	182.883	-81
205.088	182.825	-81
204.947	182.767	-81
204.806	182.709	-80
204.664	182.654	-80
204.548	182.601	-80
204.431	182.548	-79
204.314	182.494	-79
204.197	182.441	-79
204.08	182.373	-78
203.937	182.289	-78
203.795	182.205	-78
203.652	182.122	-78

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207.762	183.932	-116
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207.46	183.795	-85
207.315	183.743	-85
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206.807	183.589	-84
206.747	183.537	-84
206.627	183.485	-84
206.508	183.432	-84
206.388	183.38	-84
206.208	183.328	-84
206.124	183.256	-83
205.957	183.184	-83
205.789	183.113	-83
205.622	183.041	-83
205.371	182.969	-82
205.3	182.911	-82
205.159	182.854	-81
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204.606	182.627	-80
204.489	182.574	-80
204.372	182.521	-79
204.255	182.468	-79
204.08	182.415	-79
204.009	182.331	-78
203.866	182.247	-78
203.724	182.163	-78
203.581	182.08	-78

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203.51	182.038	-78	203.367	181.996	-78
203.367	181.959	-78	203.298	181.922	-78
203.228	181.885	-78	203.159	181.848	-78
203.089	181.811	-78	203.019	181.774	-78
202.95	181.737	-78	202.88	181.7	-78
202.81	181.663	-78	202.671	181.626	-78
202.671	181.602	-78	202.603	181.577	-78
202.536	181.553	-78	202.468	181.529	-78
202.4	181.504	-78	202.332	181.48	-78
202.264	181.455	-78	202.196	181.431	-78
202.128	181.406	-78	201.993	181.382	-78
201.993	181.336	-78	201.935	181.291	-78
201.878	181.246	-78	201.82	181.201	-78
201.763	181.155	-78	201.706	181.11	-78
201.648	181.065	-78	201.591	181.02	-78
201.533	180.974	-78	201.418	180.929	-78
201.418	180.902	-77	201.363	180.874	-77
201.307	180.847	-77	201.251	180.819	-77
201.196	180.792	-77	201.14	180.764	-77
201.084	180.737	-77	201.028	180.709	-77
200.973	180.682	-77	200.861	180.654	-77
200.861	180.629	-77	200.794	180.604	-77
200.726	180.579	-77	200.659	180.554	-77
200.591	180.529	-77	200.524	180.504	-77
200.457	180.479	-77	200.389	180.454	-77
200.322	180.429	-77	200.187	180.404	-76
200.187	180.358	-77	200.143	180.312	-76
200.1	180.266	-76	200.056	180.22	-77
200.013	180.175	-76	199.969	180.129	-76
199.926	180.083	-76	199.882	180.037	-76
199.838	179.991	-76	199.751	179.945	-76
199.751	179.907	-76	199.636	179.868	-76
199.621	179.83	-76	199.556	179.792	-76
199.491	179.754	-76	199.426	179.715	-76
199.361	179.677	-76	199.295	179.639	-76

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177.423
177.365
177.306
177.247

195.064	177.188	-73
194.941	177.132	-74
194.841	177.079	-74
194.741	177.026	-73
194.641	176.973	-73
194.542	176.919	-73
194.442	176.852	-73
194.303	176.771	-73
194.163	176.691	-73
194.024	176.61	-73
193.885	176.529	-73
193.746	176.446	-73
193.678	176.361	-73
193.609	176.275	-73
193.541	176.19	-74
193.472	176.104	-73
193.404	176.029	-73
193.285	175.963	-73
193.167	175.898	-74
193.048	175.832	-74
192.93	175.767	-74
192.811	175.704	-74
192.717	175.644	-74
192.623	175.584	-74
192.528	175.524	-74
192.434	175.464	-74
192.34	175.376	-74
192.217	175.262	-74
192.094	175.147	-74
191.97	175.032	-74
191.847	174.918	-74
191.724	174.83	-74
191.632	174.769	-75
191.541	174.709	-75
191.45	174.648	-75

194.941	177.159	-73
194.891	177.106	-74
194.791	177.053	-73
194.691	176.999	-73
194.592	176.946	-74
194.442	176.893	-73
194.372	176.812	-73
194.233	176.731	-73
194.094	176.65	-73
193.955	176.57	-73
193.746	176.489	-74
193.712	176.403	-74
193.643	176.318	-73
193.575	176.233	-73
193.506	176.147	-73
193.404	176.062	-73
193.345	175.996	-73
193.226	175.931	-74
193.107	175.865	-74
192.989	175.799	-73
192.811	175.734	-74
192.764	175.674	-74
192.67	175.614	-74
192.576	175.554	-74
192.481	175.494	-74
192.34	175.434	-74
192.278	175.319	-74
192.155	175.204	-74
192.032	175.09	-74
191.909	174.975	-74
191.724	174.86	-74
191.678	174.8	-75
191.587	174.739	-75
191.495	174.678	-75
191.404	174.617	-75

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191.358	174.587	-75	191.267	174.557	-75
191.267	174.529	-75	191.21	174.5	-75
191.153	174.472	-75	191.096	174.444	-75
191.038	174.416	-75	190.981	174.388	-75
190.924	174.36	-75	190.867	174.332	-75
190.81	174.304	-75	190.695	174.276	-75
190.695	174.242	-75	190.64	174.208	-75
190.585	174.174	-75	190.53	174.141	-75
190.475	174.107	-75	190.42	174.073	-75
190.365	174.04	-75	190.311	174.006	-75
190.256	173.972	-75	190.146	173.938	-75
190.146	173.889	-75	190.108	173.839	-75
190.071	173.789	-75	190.034	173.74	-75
189.997	173.69	-75	189.959	173.64	-75
189.922	173.59	-74	189.885	173.541	-74
189.848	173.491	-75	189.773	173.441	-75
189.773	173.41	-75	189.719	173.379	-75
189.664	173.347	-75	189.61	173.316	-75
189.555	173.285	-75	189.501	173.253	-76
189.447	173.222	-75	189.392	173.19	-76
189.338	173.159	-76	189.229	173.128	-76
189.229	173.085	-76	189.168	173.042	-76
189.107	173	-76	189.046	172.957	-76
188.986	172.914	-76	188.925	172.872	-76
188.864	172.829	-76	188.803	172.786	-76
188.742	172.743	-77	188.621	172.701	-76
188.621	172.667	-77	188.58	172.633	-77
188.539	172.599	-77	188.498	172.564	-77
188.458	172.53	-76	188.417	172.496	-77
188.376	172.462	-76	188.335	172.428	-76
188.294	172.394	-76	188.213	172.36	-76
188.213	172.315	-76	188.166	172.269	-76
188.12	172.224	-76	188.073	172.178	-76
188.027	172.133	-76	187.98	172.088	-76
187.934	172.042	-76	187.887	171.997	-76

187.84	171.951	-76	187.747	171.906	-76
187.747	171.874	-76	187.707	171.843	-76
187.666	171.811	-76	187.626	171.779	-76
187.585	171.748	-76	187.544	171.716	-76
187.504	171.684	-76	187.463	171.653	-76
187.423	171.621	-76	187.341	171.589	-76
187.341	171.552	-76	187.293	171.514	-76
187.244	171.477	-76	187.195	171.439	-76
187.147	171.402	-76	187.098	171.364	-76
187.049	171.327	-76	187.001	171.289	-75
186.952	171.252	-76	186.855	171.214	-75
186.855	171.163	-76	186.814	171.111	-76
186.773	171.06	-76	186.732	171.008	-76
186.691	170.957	-76	186.65	170.905	-75
186.609	170.854	-75	186.568	170.802	-76
186.528	170.75	-75	186.446	170.699	-76
186.446	170.67	-76	186.405	170.64	-75
186.364	170.611	-76	186.323	170.581	-76
186.282	170.552	-76	186.241	170.523	-76
186.201	170.493	-76	186.16	170.464	-76
186.119	170.435	-76	186.037	170.405	-76
186.037	170.368	-76	186.013	170.331	-76
185.989	170.294	-76	185.965	170.257	-76
185.942	170.22	-76	185.918	170.182	-76
185.894	170.145	-76	185.87	170.108	-76
185.846	170.071	-76	185.798	170.034	-76
185.798	170.004	-76	185.748	169.973	-76
185.698	169.943	-76	185.648	169.913	-76
185.598	169.883	-76	185.548	169.853	-76
185.498	169.823	-76	185.448	169.793	-76
185.398	169.763	-76	185.298	169.732	-76
185.298	169.697	-76	185.252	169.661	-76
185.206	169.625	-76	185.16	169.589	-76
185.113	169.553	-76	185.067	169.517	-76
185.021	169.482	-76	184.974	169.446	-76

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184.928	169.41	-76	184.836	169.374	-76
184.836	169.316	-76	184.803	169.259	-75
184.771	169.201	-75	184.738	169.143	-75
184.706	169.085	-75	184.673	169.027	-75
184.641	168.97	-76	184.608	168.912	-76
184.576	168.854	-76	184.511	168.796	-76
184.511	168.763	-76	184.464	168.73	-76
184.418	168.696	-76	184.372	168.663	-77
184.326	168.629	-77	184.28	168.596	-77
184.233	168.562	-77	184.187	168.529	-77
184.141	168.496	-77	184.048	168.462	-77
184.048	168.429	-77	184.013	168.396	-77
183.977	168.363	-77	183.942	168.33	-77
183.906	168.297	-77	183.871	168.264	-77
183.835	168.231	-76	183.8	168.199	-76
183.764	168.166	-76	183.693	168.133	-76
183.693	168.086	-76	183.668	168.039	-76
183.644	167.993	-76	183.619	167.946	-76
183.594	167.899	-76	183.569	167.853	-76
183.544	167.806	-76	183.519	167.759	-76
183.494	167.713	-76	183.445	167.666	-76
183.445	167.625	-76	183.417	167.583	-76
183.389	167.542	-76	183.362	167.501	-76
183.334	167.46	-76	183.307	167.419	-76
183.279	167.377	-76	183.251	167.336	-76
183.224	167.295	-76	183.169	167.254	-76
183.169	167.201	-76	183.149	167.149	-76
183.129	167.096	-76	183.11	167.044	-76
183.09	166.991	-76	183.07	166.939	-76
183.051	166.886	-77	183.031	166.834	-77
183.011	166.781	-77	182.972	166.728	-77
182.972	166.701	-76	182.947	166.674	-76
182.923	166.647	-76	182.898	166.62	-76
182.874	166.593	-76	182.849	166.566	-76
182.825	166.539	-76	182.8	166.512	-76

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182.775	166.485	-76
182.726	166.408	-76
182.687	166.308	-75
182.648	166.209	-75
182.609	166.109	-74
182.57	166.009	-74
182.531	165.928	-74
182.466	165.866	-74
182.402	165.805	-74
182.337	165.743	-74
182.272	165.682	-74
182.208	165.604	-74
182.171	165.509	-74
182.133	165.414	-80
182.096	165.32	-82
182.059	165.225	-74
182.021	165.126	-74
181.947	165.022	-74
181.873	164.918	-74
181.799	164.814	-74
181.725	164.71	-74
181.651	164.613	-74
181.592	164.521	-74
181.534	164.43	-74
181.475	164.338	-74
181.416	164.247	-74
181.357	164.167	-74
181.303	164.099	-74
181.249	164.031	-75
181.195	163.963	-74
181.141	163.895	-74
181.087	163.823	-75
181.016	163.747	-75
180.945	163.671	-75
180.873	163.595	-75

182.726	166.458	-76
182.707	166.358	-75
182.668	166.258	-75
182.628	166.159	-75
182.569	166.059	-74
182.531	165.959	-74
182.498	165.897	-74
182.434	165.836	-74
182.369	165.774	-74
182.305	165.713	-74
182.208	165.651	-74
182.189	165.556	-74
182.152	165.462	-81
182.115	165.367	-82
182.077	165.272	-74
182.021	165.178	-74
181.984	165.074	-74
181.91	164.97	-74
181.836	164.866	-74
181.762	164.762	-74
181.651	164.658	-74
181.622	164.567	-74
181.563	164.476	-74
181.504	164.384	-74
181.445	164.293	-74
181.357	164.201	-74
181.33	164.133	-74
181.276	164.065	-74
181.222	163.997	-74
181.168	163.929	-75
181.087	163.861	-75
181.052	163.785	-75
180.98	163.709	-75
180.909	163.633	-75
180.838	163.557	-75

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180.802	163.519	-75
180.731	163.449	-75
180.653	163.384	-75
180.575	163.319	-75
180.497	163.254	-75
180.419	163.189	-76
180.341	163.094	-76
180.222	162.969	-76
180.303	162.844	-76
180.284	162.719	-76
180.265	162.594	-76
180.246	162.497	-76
180.196	162.428	-76
180.147	162.359	-76
180.097	162.29	-76
180.047	162.221	-76
179.997	162.151	-76
179.929	162.079	-76
179.861	162.008	-76
179.793	161.937	-76
179.725	161.866	-76
179.657	161.795	-76
179.611	161.726	-76
179.566	161.657	-77
179.521	161.587	-77
179.475	161.518	-77
179.43	161.421	-76
179.42	161.295	-76
179.41	161.169	-76
179.401	161.043	-76
179.391	160.917	-76
179.381	160.82	-76
179.339	160.75	-76
179.297	160.68	-76
179.256	160.611	-76

180.731	163.481	-75
180.692	163.416	-75
180.614	163.351	-75
180.536	163.286	-75
180.458	163.221	-75
180.341	163.156	-75
180.331	163.031	-76
180.312	162.907	-76
180.293	162.782	-76
180.275	162.657	-76
180.246	162.532	-76
180.221	162.463	-76
180.172	162.394	-76
180.122	162.324	-76
180.072	162.255	-76
179.997	162.186	-76
179.963	162.115	-76
179.895	162.044	-76
179.827	161.972	-76
179.759	161.901	-76
179.657	161.83	-76
179.634	161.761	-76
179.589	161.691	-77
179.543	161.622	-77
179.498	161.553	-77
179.43	161.484	-77
179.425	161.358	-76
179.415	161.232	-76
179.405	161.106	-76
179.396	160.99	-76
179.381	160.854	-76
179.36	160.785	-76
179.318	160.715	-76
179.277	160.646	-76
179.235	160.576	-76

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179.214	160.541	-76	179.172	160.506	-76
179.172	160.473	-76	179.137	160.44	-76
179.102	160.406	-76	179.068	160.373	-76
179.033	160.339	-76	178.998	160.306	-76
178.963	160.272	-76	178.929	160.239	-76
178.894	160.206	-76	178.824	160.172	-76
178.824	160.118	-76	178.825	160.064	-76
178.827	160.011	-76	178.828	159.957	-76
178.829	159.903	-76	178.83	159.849	-76
178.831	159.795	-76	178.832	159.741	-76
178.834	159.687	-76	178.836	159.633	-76
178.836	159.6	-76	178.804	159.566	-76
178.771	159.532	-76	178.739	159.499	-76
178.707	159.465	-76	178.674	159.432	-76
178.642	159.398	-76	178.609	159.365	-76
178.577	159.331	-76	178.512	159.298	-76
178.512	159.261	-76	178.484	159.225	-76
178.455	159.189	-76	178.426	159.152	-76
178.398	159.116	-76	178.369	159.079	-76
178.34	159.043	-76	178.312	159.007	-76
178.283	158.97	-76	178.226	158.934	-76
178.226	158.893	-76	178.227	158.831	-76
178.229	158.78	-76	178.23	158.729	-76
178.232	158.677	-87	178.233	158.626	-76
178.235	158.575	-76	178.236	158.523	-76
178.238	158.472	-76	178.241	158.421	-76
178.241	158.371	-76	178.206	158.321	-76
178.17	158.271	-76	178.135	158.221	-76
178.1	158.171	-76	178.065	158.122	-76
178.029	158.072	-76	177.994	158.022	-76
177.959	157.972	-76	177.888	157.922	-76
177.888	157.886	-76	177.862	157.849	-76
177.836	157.812	-76	177.81	157.776	-76
177.784	157.739	-76	177.758	157.702	-76
177.732	157.665	-76	177.706	157.629	-76

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177.68	157.592	-76	177.628	157.555	-76
177.638	157.523	-75	177.634	157.49	-75
177.64	157.457	-75	177.646	157.425	-75
177.652	157.392	-75	177.658	157.359	-75
177.664	157.326	-75	177.67	157.294	-75
177.676	157.261	-75	177.688	157.228	-75
177.688	157.175	-75	177.684	157.123	-75
177.679	157.07	-75	177.675	157.017	-75
177.671	156.964	-75	177.666	156.911	-75
177.662	156.858	-74	177.658	156.806	-74
177.653	156.753	-74	177.645	156.7	-74
177.645	156.651	-74	177.624	156.602	-74
177.604	156.553	-74	177.584	156.505	-74
177.563	156.456	-74	177.543	156.407	-74
177.523	156.358	-74	177.502	156.309	-74
177.482	156.26	-74	177.441	156.211	-74
177.441	156.176	-74	177.429	156.14	-74
177.416	156.105	-74	177.404	156.069	-74
177.391	156.034	-75	177.379	155.998	-74
177.367	155.963	-74	177.354	155.927	-74
177.342	155.891	-75	177.317	155.856	-74
177.317	155.805	-74	177.312	155.755	-74
177.307	155.705	-74	177.301	155.654	-74
177.296	155.604	-74	177.291	155.554	-74
177.286	155.503	-74	177.28	155.453	-74
177.275	155.403	-74	177.265	155.352	-74
177.265	155.283	-73	177.264	155.215	-73
177.263	155.146	-73	177.262	155.078	-73
177.261	155.009	-73	177.26	154.94	-73
177.259	154.872	-73	177.258	154.803	-73
177.257	154.734	-73	177.255	154.666	-73
177.255	154.628	-73	177.235	154.591	-73
177.215	154.554	-73	177.195	154.517	-73
177.175	154.48	-73	177.156	154.442	-73
177.136	154.405	-73	177.116	154.368	-73

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177.096	154.331	-74	177.056	154.294	-74
177.056	154.261	-73	177.044	154.227	-73
177.031	154.194	-73	177.018	154.161	-73
177.006	154.128	-73	176.993	154.095	-73
176.98	154.062	-73	176.968	154.029	-73
176.955	153.996	-73	176.93	153.963	-73
176.93	153.9	-73	176.95	153.836	-73
176.969	153.773	-73	176.989	153.71	-72
177.009	153.646	-73	177.029	153.583	-73
177.049	153.52	-73	177.068	153.457	-73
177.088	153.393	-73	177.128	153.33	-73
177.128	153.292	-73	177.111	153.255	-72
177.093	153.218	-73	177.076	153.18	-73
177.059	153.143	-73	177.042	153.106	-73
177.024	153.068	-73	177.007	153.031	-73
176.99	152.994	-73	176.955	152.956	-73
176.955	152.919	-73	176.939	152.882	-73
176.922	152.844	-73	176.906	152.807	-73
176.889	152.769	-73	176.873	152.732	-73
176.856	152.694	-73	176.84	152.657	-73
176.823	152.62	-73	176.79	152.582	-72
176.79	152.531	-72	176.808	152.479	-72
176.825	152.428	-72	176.843	152.377	-72
176.86	152.325	-72	176.878	152.274	-72
176.895	152.222	-72	176.913	152.171	-72
176.93	152.119	-72	176.965	152.068	-71
176.965	152.02	-71	176.967	151.973	-71
176.97	151.925	-71	176.972	151.878	-71
176.974	151.83	-71	176.976	151.783	-71
176.979	151.735	-71	176.981	151.688	-71
176.983	151.64	-71	176.988	151.593	-71
176.988	151.549	-72	176.995	151.506	-72
177.003	151.462	-72	177.01	151.419	-72
177.018	151.375	-72	177.025	151.332	-72
177.032	151.288	-72	177.04	151.245	-72

177.047	151.201	-72	177.062	151.158	-72
177.062	151.118	-72	177.039	151.079	-72
177.016	151.04	-72	176.993	151.001	-72
176.97	150.961	-72	176.947	150.922	-72
176.924	150.883	-72	176.902	150.844	-72
176.879	150.804	-72	176.833	150.765	-72
176.833	150.727	-72	176.835	150.688	-72
176.837	150.65	-72	176.838	150.612	-72
176.84	150.573	-72	176.842	150.535	-72
176.844	150.496	-72	176.846	150.458	-72
176.848	150.419	-72	176.852	150.381	-72
176.852	150.334	-73	176.861	150.288	-73
176.911	150.241	-73	176.941	150.194	-73
176.97	150.148	-73	177	150.101	-73
177.03	150.054	-74	177.059	150.008	-74
177.089	149.961	-73	177.148	149.914	-73
177.148	149.835	-73	177.16	149.756	-74
177.172	149.677	-74	177.183	149.597	-74
177.195	149.518	-74	177.206	149.439	-74
177.218	149.359	-74	177.23	149.28	-74
177.241	149.201	-74	177.265	149.121	-74
177.265	149.038	-74	177.261	149.055	-74
177.257	149.022	-74	177.253	148.988	-74
177.249	148.955	-74	177.245	148.922	-74
177.241	148.889	-74	177.238	148.855	-74
177.234	148.822	-74	177.226	148.789	-74
177.226	148.739	-75	177.24	148.689	-74
177.254	148.639	-74	177.268	148.589	-74
177.282	148.539	-74	177.296	148.489	-74
177.31	148.439	-74	177.324	148.389	-74
177.338	148.339	-74	177.366	148.289	-74
177.366	148.252	-74	177.359	148.214	-74
177.351	148.177	-74	177.343	148.139	-74
177.336	148.102	-74	177.328	148.064	-74
177.321	148.026	-74	177.313	147.989	-74

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177.306	147.951	-74	177.291	147.914	-74
177.291	147.864	-74	177.293	147.815	-74
177.295	147.766	-74	177.297	147.717	-74
177.299	147.667	-74	177.301	147.618	-74
177.303	147.569	-74	177.305	147.52	-74
177.307	147.47	-74	177.311	147.421	-74
177.311	147.381	-74	177.295	147.342	-74
177.28	147.302	-74	177.264	147.263	-73
177.249	147.223	-73	177.234	147.184	-74
177.218	147.144	-73	177.203	147.105	-72
177.187	147.065	-72	177.157	147.026	-74
177.157	146.988	-74	177.166	146.949	-74
177.175	146.911	-74	177.184	146.873	-73
177.194	146.835	-73	177.203	146.797	-74
177.212	146.758	-74	177.222	146.72	-74
177.231	146.682	-74	177.25	146.644	-73
177.25	146.589	-73	177.279	146.535	-74
177.308	146.48	-73	177.337	146.425	-74
177.366	146.371	-74	177.396	146.316	-74
177.425	146.261	-74	177.454	146.207	-74
177.483	146.152	-74	177.542	146.098	-74
177.542	146.064	-74	177.543	146.031	-75
177.544	145.998	-74	177.546	145.965	-75
177.547	145.932	-75	177.548	145.899	-74
177.55	145.865	-74	177.551	145.832	-75
177.552	145.799	-74	177.555	145.766	-74
177.555	145.714	-75	177.581	145.662	-75
177.607	145.609	-75	177.633	145.557	-75
177.659	145.505	-75	177.684	145.453	-75
177.71	145.401	-75	177.736	145.349	-75
177.762	145.297	-75	177.814	145.245	-75
177.814	145.202	-75	177.822	145.16	-75
177.83	145.118	-75	177.838	145.076	-75
177.846	145.034	-75	177.854	144.992	-75
177.862	144.949	-75	177.87	144.907	-75

177.879	144.865	-75	177.895	144.823	-75
177.895	144.789	-75	177.913	144.756	-75
177.93	144.723	-75	177.948	144.689	-75
177.966	144.656	-76	177.984	144.622	-76
178.002	144.589	-76	178.02	144.556	-76
178.038	144.522	-76	178.074	144.489	-76
178.074	144.444	-76	178.102	144.399	-76
178.13	144.354	-76	178.159	144.309	-76
178.187	144.264	-76	178.215	144.219	-76
178.244	144.174	-76	178.272	144.129	-76
178.3	144.084	-76	178.357	144.039	-76
178.357	143.981	-76	178.418	143.922	-76
178.478	143.864	-76	178.539	143.805	-76
178.6	143.746	-76	178.661	143.686	-76
178.722	143.629	-76	178.783	143.571	-76
178.844	143.512	-76	178.965	143.454	-76
178.965	143.423	-76	178.966	143.393	-76
178.967	143.362	-76	178.967	143.332	-77
178.968	143.301	-77	178.968	143.271	-77
178.969	143.24	-77	178.97	143.21	-67
178.97	143.179	-70	178.971	143.149	-69
178.971	143.1	-77	179.013	143.05	-77
179.055	143.001	-73	179.097	142.952	-77
179.14	142.903	-68	179.182	142.854	-69
179.224	142.805	-70	179.266	142.756	-69
179.308	142.706	-69	179.392	142.657	-69
179.392	142.615	-77	179.449	142.573	-77
179.505	142.531	-77	179.562	142.489	-77
179.619	142.446	-78	179.676	142.404	-77
179.733	142.362	-70	179.79	142.32	-70
179.847	142.278	-78	179.961	142.236	-78
179.961	142.192	-78	179.994	142.148	-78
180.028	142.104	-78	180.061	142.06	-78
180.095	142.016	-78	180.128	141.971	-77
180.162	141.927	-77	180.196	141.883	-77

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180.229	141.839	-77	180.296	141.795	-77
180.296	141.765	-77	180.314	141.734	-77
180.332	141.704	-77	180.349	141.674	-77
180.367	141.643	-78	180.384	141.613	-78
180.402	141.583	-77	180.42	141.552	-78
180.437	141.522	-78	180.473	141.492	-78
180.473	141.441	-78	180.51	141.391	-78
180.547	141.34	-78	180.584	141.29	-78
180.622	141.239	-78	180.659	141.189	-78
180.696	141.138	-78	180.733	141.088	-78
180.771	141.037	-78	180.845	140.987	-78
180.845	140.952	-78	180.875	140.918	-78
180.904	140.883	-78	180.934	140.849	-78
180.963	140.814	-78	180.993	140.78	-78
181.022	140.745	-78	181.052	140.711	-78
181.081	140.676	-77	181.14	140.642	-77
181.14	140.594	-77	181.189	140.546	-77
181.238	140.499	-77	181.288	140.451	-77
181.337	140.403	-76	181.386	140.355	-76
181.435	140.308	-76	181.484	140.26	-77
181.533	140.212	-77	181.631	140.165	-76
181.631	140.119	-77	181.675	140.074	-77
181.719	140.028	-77	181.763	139.983	-77
181.807	139.937	-77	181.851	139.892	-78
181.895	139.846	-78	181.939	139.801	-78
181.983	139.755	-78	182.07	139.71	-77
182.07	139.678	-78	182.097	139.646	-78
182.124	139.614	-78	182.15	139.582	-78
182.177	139.55	-78	182.204	139.518	-78
182.23	139.486	-78	182.257	139.454	-78
182.283	139.422	-78	182.337	139.39	-78
182.337	139.338	-78	182.399	139.287	-78
182.462	139.236	-78	182.524	139.184	-79
182.586	139.133	-80	182.649	139.081	-80
182.711	139.03	-81	182.774	138.978	-81

182.836	138.927	-81
182.961	138.848	-81
182.994	138.793	-82
183.027	138.738	-82
183.06	138.684	-81
183.093	138.629	-81
183.126	138.548	-83
183.211	138.441	-83
183.297	138.335	-83
183.383	138.228	-83
183.468	138.121	-84

182.961	138.876	-81
182.977	138.821	-81
183.01	138.766	-82
183.043	138.711	-82
183.076	138.656	-81
183.126	138.601	-82
183.169	138.495	-83
183.254	138.388	-83
183.34	138.281	-83
183.425	138.175	-83
183.554	138.068	-83

RN= 7

INPUT DESIRED RUN NO.

?

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RUN NO. 7 OCEANIC FLT., 11-4-81
132.15

FREQUENCY=

NMI	AZIMUTH	DBM	NMI	AZIMUTH	DBM
180.219	137.84	-71	180.092	137.612	-71
179.966	137.384	-71	179.84	137.156	-78
179.714	136.928	-78	179.587	136.7	-78
179.461	136.472	-79	179.335	136.244	-71
179.209	136.016	-71	178.956	135.788	-70
178.956	135.794	-70	178.821	135.8	-70
178.685	135.806	-70	178.55	135.812	-70
178.414	135.818	-70	178.278	135.824	-87
178.143	135.83	-78	178.007	135.836	-81
177.872	135.842	-78	177.601	135.848	-70
177.601	135.839	-71	177.521	135.83	-103
177.441	135.822	-78	177.361	135.813	-71
177.281	135.804	-79	177.201	135.796	-71
177.121	135.787	-71	177.041	135.778	-71
176.961	135.77	-71	176.802	135.761	-71
176.802	135.776	-72	176.67	135.791	-71
176.539	135.806	-71	176.408	135.821	-72
176.276	135.836	-72	176.145	135.85	-72
176.014	135.865	-72	175.883	135.88	-72
175.751	135.895	-71	175.489	135.91	-71
175.489	135.915	-72	175.401	135.919	-71
175.313	135.924	-72	175.225	135.928	-72
175.138	135.933	-71	175.05	135.937	-71
174.962	135.942	-71	174.875	135.946	-71
174.787	135.951	-71	174.611	135.955	-71
174.611	135.964	-71	174.513	135.973	-71
174.414	135.982	-71	174.316	135.991	-71
174.217	136	-71	174.119	136.009	-71
174.02	136.018	-71	173.921	136.027	-71
173.823	136.036	-71	173.626	136.045	-71

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164.806	137.218	-69
164.633	137.23	-69
164.46	137.241	-69
164.286	137.252	-102
164.113	137.264	-69
163.94	137.289	-69
163.695	137.328	-69
163.451	137.367	-69
163.206	137.406	-69
162.962	137.445	-69
162.717	137.47	-69
162.573	137.483	-69
162.428	137.495	-69
162.284	137.507	-69
162.14	137.519	-69
161.995	137.549	-69
161.673	137.598	-69
161.35	137.647	-69
161.027	137.696	-69
160.705	137.745	-69
160.382	137.775	-69
160.238	137.788	-69
160.094	137.8	-69
159.95	137.813	-69
159.805	137.825	-69
159.661	137.849	-69
159.401	137.885	-69
159.14	137.92	-68
158.879	137.956	-68
158.619	137.992	-68
158.358	138.016	-68
158.185	138.028	-68
158.012	138.041	-68
157.84	138.053	-68
157.667	138.066	-68

164.72	137.224	-69
164.546	137.235	-69
164.373	137.247	-76
164.2	137.258	-69
163.94	137.269	-69
163.817	137.308	-69
163.573	137.347	-69
163.328	137.386	-69
163.084	137.425	-69
162.717	137.464	-69
162.645	137.476	-69
162.501	137.489	-69
162.356	137.501	-69
162.212	137.513	-69
161.995	137.525	-69
161.834	137.574	-69
161.511	137.623	-69
161.189	137.671	-69
160.866	137.72	-69
160.382	137.769	-69
160.31	137.781	-69
160.166	137.794	-69
160.022	137.806	-69
159.878	137.819	-69
159.661	137.832	-69
159.531	137.867	-69
159.27	137.903	-68
159.01	137.938	-68
158.749	137.974	-68
158.358	138.009	-68
158.272	138.022	-68
158.099	138.034	-68
157.926	138.047	-68
157.753	138.059	-68
157.494	138.072	-68

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173.626	136.068	-70	173.519	136.09	-70
173.412	136.113	-70	173.306	136.136	-70
173.199	136.159	-70	173.092	136.181	-70
172.985	136.204	-70	172.879	136.227	-70
172.772	136.249	-70	172.559	136.272	-70
172.559	136.302	-70	172.332	136.331	-70
172.106	136.361	-70	171.88	136.391	-70
171.653	136.42	-70	171.427	136.45	-70
171.201	136.479	-70	170.975	136.509	-70
170.748	136.539	-70	170.296	136.568	-70
170.296	136.582	-70	170.17	136.595	-70
170.045	136.609	-70	169.92	136.622	-70
169.794	136.636	-70	169.669	136.649	-70
169.543	136.663	-70	169.418	136.677	-70
169.293	136.69	-70	169.042	136.704	-70
169.042	136.725	-70	168.928	136.746	-70
168.815	136.768	-70	168.701	136.789	-70
168.587	136.81	-70	168.474	136.832	-70
168.36	136.853	-70	168.246	136.875	-70
168.133	136.896	-70	167.905	136.917	-70
167.905	136.932	-70	167.795	136.946	-70
167.685	136.961	-70	167.575	136.975	-70
167.465	136.99	-70	167.355	137.004	-70
167.245	137.018	-70	167.135	137.033	-70
167.025	137.047	-70	166.805	137.062	-68
166.805	137.071	-68	166.693	137.081	-68
166.58	137.091	-70	166.468	137.101	-70
166.356	137.11	-70	166.243	137.12	-69
166.131	137.13	-69	166.018	137.139	-69
165.906	137.149	-69	165.681	137.159	-69
165.681	137.164	-70	165.594	137.17	-69
165.506	137.175	-69	165.419	137.18	-69
165.331	137.186	-69	165.244	137.191	-69
165.156	137.196	-69	165.069	137.202	-76
164.981	137.207	-69	164.806	137.213	-69

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157.494	138.083	-68	157.382	138.094	-68
157.27	138.105	-67	157.158	138.116	-67
157.046	138.126	-67	156.934	138.137	-67
156.822	138.148	-67	156.71	138.159	-67
156.598	138.17	-67	156.374	138.181	-67
156.374	138.184	-67	156.265	138.188	-67
156.155	138.192	-67	156.046	138.195	-67
155.937	138.199	-67	155.827	138.202	-67
155.718	138.206	-66	155.609	138.209	-66
155.499	138.213	-66	155.281	138.216	-66
155.281	138.235	-66	155.151	138.254	-66
155.022	138.273	-66	154.893	138.292	-66
154.764	138.31	-66	154.635	138.329	-66
154.505	138.348	-66	154.376	138.367	-66
154.247	138.386	-65	153.989	138.404	-66
153.989	138.408	-65	153.908	138.412	-65
153.827	138.417	-65	153.747	138.421	-65
153.666	138.425	-65	153.585	138.429	-65
153.505	138.433	-65	153.424	138.437	-65
153.344	138.441	-65	153.182	138.445	-65
153.182	138.452	-65	153.082	138.458	-65
152.981	138.465	-65	152.88	138.471	-65
152.78	138.478	-65	152.679	138.484	-65
152.578	138.491	-65	152.478	138.497	-65
152.377	138.504	-65	152.176	138.51	-65
152.176	138.514	-65	152.081	138.518	-65
151.986	138.522	-65	151.891	138.526	-65
151.796	138.53	-65	151.701	138.534	-65
151.606	138.538	-64	151.512	138.542	-64
151.417	138.546	-64	151.227	138.55	-64
151.227	138.572	-64	151.092	138.594	-64
150.957	138.617	-64	150.823	138.639	-64
150.688	138.661	-64	150.553	138.683	-64
150.419	138.705	-64	150.284	138.727	-64
150.149	138.749	-64	149.88	138.772	-64

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149.88	138.783	-64	149.768	138.795	-64
149.657	138.807	-64	149.545	138.819	-64
149.434	138.831	-64	149.322	138.843	-64
149.211	138.855	-64	149.099	138.867	-64
148.988	138.879	-64	148.764	138.89	-64
148.764	138.892	-64	148.661	138.893	-70
148.558	138.895	-70	148.454	138.896	-70
148.351	138.898	-71	148.247	138.899	-90
148.144	138.901	-97	148.04	138.903	-81
147.937	138.904	-64	147.73	138.906	-64
147.73	138.988	-64	147.176	139.071	-64
146.623	139.153	-64	146.069	139.236	-64
145.516	139.319	-69	144.962	139.401	-97
144.409	139.484	-70	143.855	139.566	-64
143.302	139.649	-64	142.195	139.732	-64
142.195	139.747	-64	142.092	139.763	-64
141.989	139.779	-64	141.886	139.795	-64
141.783	139.811	-64	141.68	139.827	-64
141.577	139.842	-64	141.474	139.858	-64
141.371	139.874	-64	141.165	139.89	-97
141.165	139.895	-77	141.07	139.9	-70
140.975	139.905	-71	140.881	139.91	-64
140.786	139.915	-64	140.692	139.921	-77
140.597	139.926	-64	140.502	139.931	-64
140.408	139.936	-64	140.219	139.941	-64
140.219	139.96	-64	140.097	139.98	-64
139.974	139.999	-64	139.852	140.018	-64
139.73	140.038	-64	139.608	140.057	-64
139.486	140.076	-64	139.364	140.095	-64
139.242	140.115	-64	138.998	140.134	-65
138.998	140.139	-65	138.903	140.145	-65
138.809	140.15	-65	138.714	140.155	-65
138.62	140.161	-65	138.525	140.166	-65
138.431	140.171	-65	138.336	140.177	-65
138.241	140.182	-65	138.052	140.187	-65

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138.852	140.213	-65	137.934	140.239	-65
137.815	140.265	-65	137.697	140.29	-64
137.578	140.316	-65	137.46	140.342	-65
137.341	140.367	-65	137.222	140.393	-64
137.104	140.419	-64	136.867	140.444	-64
136.867	140.447	-64	136.763	140.45	-65
136.66	140.452	-64	136.557	140.455	-64
136.453	140.458	-64	136.35	140.46	-64
136.247	140.463	-64	136.143	140.465	-65
136.04	140.468	-65	135.833	140.471	-65
135.833	140.491	-65	135.726	140.511	-65
135.619	140.532	-65	135.512	140.552	-65
135.404	140.572	-65	135.297	140.593	-65
135.19	140.613	-65	135.083	140.633	-65
134.976	140.654	-65	134.761	140.674	-65
134.761	140.677	-65	134.644	140.68	-65
134.526	140.683	-65	134.408	140.686	-65
134.29	140.688	-65	134.173	140.691	-65
134.055	140.694	-65	133.937	140.697	-65
133.82	140.7	-65	133.584	140.703	-65
133.584	140.706	-65	133.495	140.709	-65
133.406	140.711	-65	133.318	140.714	-65
133.229	140.717	-65	133.14	140.72	-65
133.051	140.723	-65	132.962	140.726	-65
132.873	140.729	-65	132.695	140.732	-65
132.695	140.762	-65	132.572	140.792	-65
132.448	140.822	-65	132.325	140.852	-65
132.201	140.883	-65	132.078	140.913	-65
131.954	140.943	-65	131.831	140.973	-65
131.707	141.003	-65	131.46	141.034	-65
131.46	141.037	-65	131.371	141.04	-65
131.283	141.043	-65	131.194	141.046	-65
131.105	141.049	-65	131.016	141.052	-65
130.928	141.055	-65	130.839	141.059	-65
130.75	141.062	-65	130.572	141.065	-65

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130.572	141.08	-65	130.448	141.096	-65
130.323	141.111	-65	130.199	141.127	-65
130.074	141.142	-65	129.949	141.157	-65
129.825	141.173	-65	129.7	141.188	-65
129.575	141.204	-65	129.326	141.219	-65
129.326	141.251	-65	129.218	141.282	-65
129.109	141.313	-65	129.001	141.344	-66
128.892	141.376	-66	128.784	141.407	-66
128.675	141.438	-66	128.567	141.47	-65
128.458	141.501	-66	128.241	141.532	-66
128.241	141.536	-66	128.152	141.539	-66
128.063	141.543	-66	127.975	141.546	-66
127.886	141.55	-66	127.797	141.553	-66
127.709	141.557	-66	127.62	141.56	-66
127.531	141.564	-66	127.353	141.567	-66
127.353	141.593	-66	127.227	141.619	-67
127.101	141.645	-67	126.975	141.671	-67
126.849	141.697	-67	126.723	141.722	-67
126.597	141.748	-67	126.471	141.774	-67
126.345	141.8	-67	126.093	141.826	-67
126.093	141.833	-67	126.013	141.84	-67
125.933	141.846	-66	125.853	141.853	-66
125.774	141.86	-66	125.694	141.867	-66
125.614	141.874	-66	125.535	141.991	-66
125.455	141.888	-66	125.296	141.895	-67
125.296	141.905	-67	125.21	141.915	-67
125.124	141.925	-67	125.038	141.935	-67
124.952	141.944	-66	124.866	141.954	-66
124.78	141.964	-66	124.695	141.974	-66
124.609	141.984	-66	124.437	141.994	-66
124.437	142.028	-66	124.301	142.061	-67
124.165	142.094	-66	124.029	142.127	-66
123.893	142.16	-66	123.757	142.193	-66
123.622	142.227	-66	123.486	142.26	-66
123.35	142.293	-66	123.078	142.326	-66

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123.078	142.337	-66	122.993	142.348	-66
122.908	142.358	-66	122.823	142.369	-66
122.739	142.38	-66	122.654	142.39	-66
122.569	142.401	-66	122.484	142.412	-66
122.399	142.423	-66	122.23	142.433	-65
122.23	142.461	-65	122.104	142.489	-65
121.979	142.517	-65	121.854	142.544	-65
121.729	142.572	-65	121.604	142.6	-65
121.478	142.628	-65	121.353	142.655	-65
121.228	142.683	-65	120.977	142.711	-65
120.977	142.722	-65	120.893	142.733	-65
120.808	142.744	-65	120.723	142.755	-65
120.638	142.766	-65	120.554	142.778	-65
120.469	142.789	-65	120.384	142.8	-65
120.299	142.811	-65	120.13	142.822	-65
120.13	142.851	-65	120.005	142.879	-65
119.88	142.908	-65	119.755	142.937	-65
119.631	142.965	-65	119.506	142.994	-65
119.381	143.022	-65	119.256	143.051	-65
119.131	143.08	-65	118.882	143.108	-65
118.882	143.12	-66	118.769	143.132	-65
118.656	143.144	-65	118.543	143.156	-65
118.43	143.168	-65	118.318	143.18	-66
118.205	143.192	-65	118.092	143.203	-65
117.979	143.215	-65	117.753	143.227	-65
117.753	143.239	-65	117.655	143.251	-65
117.556	143.263	-65	117.457	143.276	-65
117.358	143.288	-65	117.259	143.3	-65
117.16	143.312	-65	117.061	143.324	-65
116.962	143.336	-66	116.764	143.348	-66
116.764	143.357	-65	116.671	143.366	-66
116.577	143.374	-66	116.483	143.383	-66
116.39	143.392	-66	116.296	143.4	-66
116.203	143.409	-66	116.109	143.418	-66
116.015	143.427	-66	115.828	143.435	-66

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115.828	143.469	-66	115.699	143.503	-66
115.569	143.537	-66	115.44	143.571	-66
115.31	143.605	-66	115.181	143.639	-66
115.052	143.673	-66	114.922	143.706	-66
114.793	143.74	-66	114.534	143.774	-66
114.534	143.791	-65	114.416	143.807	-66
114.299	143.824	-66	114.181	143.841	-66
114.063	143.857	-66	113.945	143.874	-66
113.828	143.89	-66	113.71	143.907	-66
113.592	143.924	-66	113.357	143.94	-66
113.357	143.953	-66	113.259	143.967	-67
113.16	143.98	-67	113.061	143.993	-67
112.963	144.006	-67	112.864	144.019	-66
112.766	144.032	-66	112.667	144.045	-66
112.569	144.058	-66	112.372	144.071	-67
112.372	144.081	-66	112.292	144.09	-66
112.213	144.099	-66	112.134	144.108	-66
112.055	144.117	-66	111.976	144.126	-67
111.897	144.136	-67	111.818	144.145	-67
111.739	144.154	-67	111.581	144.163	-67
111.581	144.191	-67	111.477	144.219	-67
111.373	144.247	-67	111.269	144.275	-68
111.165	144.303	-67	111.061	144.331	-68
110.957	144.358	-68	110.853	144.386	-68
110.749	144.414	-68	110.541	144.442	-68
110.541	144.456	-68	110.442	144.469	-68
110.343	144.483	-68	110.244	144.497	-68
110.145	144.51	-69	110.045	144.524	-68
109.946	144.537	-69	109.847	144.551	-69
109.748	144.564	-69	109.549	144.578	-69
109.549	144.611	-76	109.441	144.643	-82
109.332	144.676	-76	109.224	144.709	-86
109.115	144.741	-98	109.006	144.774	-80
108.898	144.807	-70	108.789	144.839	-70
108.681	144.872	-69	108.463	144.905	-69

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108.463	144.934	-70
108.257	144.993	-70
108.05	145.051	-70
107.844	145.11	-70
107.637	145.169	-69
107.431	145.233	-69
107.186	145.302	-70
106.941	145.371	-69
106.697	145.44	-69
106.452	145.509	-70
106.208	145.554	-70
106.05	145.576	-69
105.893	145.597	-70
105.736	145.619	-71
105.579	145.64	-70
105.422	145.686	-70
105.178	145.758	-71
104.935	145.829	-71
104.691	145.901	-72
104.448	145.972	-72
104.204	146.039	-72
103.998	146.102	-73
103.792	146.164	-73
103.586	146.227	-73
103.38	146.289	-73
103.174	146.325	-74
102.979	146.335	-73
102.785	146.344	-73
102.59	146.353	-72
102.396	146.363	-72
102.201	146.405	-73
101.959	146.481	-73
101.717	146.556	-73
101.475	146.631	-72
101.233	146.706	-73

108.36	144.963	-70
108.154	145.022	-70
107.947	145.081	-70
107.74	145.14	-70
107.431	145.198	-69
107.308	145.267	-70
107.064	145.336	-70
106.819	145.406	-69
106.575	145.475	-69
106.208	145.544	-70
106.129	145.565	-69
105.972	145.586	-70
105.815	145.608	-70
105.658	145.629	-71
105.422	145.651	-70
105.3	145.722	-71
105.057	145.793	-71
104.813	145.865	-72
104.57	145.936	-72
104.204	146.008	-72
104.101	146.07	-72
103.895	146.133	-73
103.689	146.195	-73
103.483	146.258	-73
103.174	146.321	-73
103.076	146.33	-74
102.882	146.339	-73
102.687	146.349	-72
102.493	146.358	-72
102.201	146.368	-73
102.08	146.443	-73
101.838	146.518	-73
101.596	146.593	-72
101.354	146.669	-72
100.992	146.744	-73

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100.992	146.764	-72	100.918	146.784	-72
100.845	146.804	-72	100.772	146.823	-73
100.698	146.843	-73	100.625	146.863	-72
100.552	146.883	-72	100.478	146.903	-72
100.405	146.923	-72	100.258	146.943	-72
100.258	146.956	-71	100.166	146.969	-71
100.074	146.983	-71	99.9812	146.996	-72
99.8888	147.009	-72	99.7965	147.022	-71
99.7041	147.036	-71	99.6117	147.049	-71
99.5194	147.062	-71	99.3346	147.075	-71
99.3346	147.115	-72	99.2145	147.154	-72
99.0944	147.194	-72	98.9742	147.233	-73
98.8541	147.273	-73	98.734	147.312	-73
98.6138	147.352	-72	98.4937	147.392	-73
98.3736	147.431	-73	98.1333	147.471	-73
98.1333	147.468	-72	98.0508	147.506	-70
97.9682	147.523	-73	97.8857	147.54	-73
97.8031	147.558	-72	97.7206	147.575	-73
97.638	147.593	-73	97.5555	147.61	-73
97.4729	147.628	-73	97.3078	147.645	-73
97.3078	147.669	-74	97.1926	147.693	-74
97.0774	147.717	-74	96.9622	147.741	-74
96.8469	147.765	-74	96.7317	147.789	-73
96.6165	147.813	-73	96.5013	147.837	-73
96.386	147.861	-72	96.1556	147.885	-73
96.1556	147.907	-73	96.0679	147.93	-73
95.98	147.952	-73	95.8922	147.975	-70
95.8045	147.997	-70	95.7167	148.02	-68
95.6289	148.042	-73	95.5411	148.065	-70
95.4533	148.087	-71	95.2778	148.11	-72
95.2778	148.128	-73	95.1956	148.147	-73
95.1134	148.165	-72	95.0312	148.184	-73
94.9491	148.202	-72	94.8669	148.221	-73
94.7847	148.24	-72	94.7025	148.258	-72
94.6204	148.277	-72	94.456	148.295	-72

94.456	148.342	-72
94.2381	148.435	-72
94.0201	148.528	-71
93.8022	148.621	-71
93.5842	148.714	-71
93.3663	148.782	-71
93.1465	148.825	-71
92.9267	148.868	-71
92.7069	148.911	-72
92.4872	148.954	-72
92.2674	149.027	-73
92.071	149.131	-73
91.8746	149.235	-73
91.6781	149.339	-73
91.4817	149.443	-73
91.2853	149.515	-73
91.1207	149.555	-72
90.956	149.596	-73
90.7913	149.636	-72
90.6266	149.677	-71
90.462	149.747	-72
90.2479	149.848	-72
90.0338	149.948	-72
89.8198	150.049	-71
89.6057	150.149	-71
89.3916	150.211	-72
89.2451	150.233	-72
89.0985	150.256	-71
88.9519	150.278	-71
88.8054	150.301	-71
88.6588	150.38	-70
88.3933	150.517	-70
88.1278	150.654	-71
87.8622	150.791	-70
87.5967	150.928	-70

94.347	148.388	-72
94.1291	148.481	-72
93.9112	148.574	-71
93.6932	148.667	-71
93.3663	148.76	-70
93.2564	148.803	-71
93.0366	148.846	-71
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92.597	148.932	-72
92.2674	148.975	-72
92.1692	149.079	-73
91.9728	149.183	-73
91.7763	149.287	-72
91.5799	149.391	-70
91.2853	149.495	-71
91.203	149.535	-72
91.0383	149.576	-72
90.8737	149.616	-72
90.709	149.657	-71
90.462	149.697	-70
90.355	149.798	-72
90.1409	149.898	-72
89.9268	149.999	-71
89.7127	150.099	-71
89.3916	150.2	-72
89.3184	150.222	-72
89.1718	150.244	-72
89.0252	150.267	-72
88.8786	150.289	-72
88.6588	150.312	-71
88.526	150.449	-70
88.2605	150.586	-70
87.995	150.722	-70
87.7295	150.859	-71
87.3312	150.996	-71

87.3312	151.008	-72	87.259	151.021	-71
87.1869	151.033	-71	87.1147	151.046	-71
87.0426	151.058	-71	86.9704	151.071	-71
86.8982	151.083	-71	86.8261	151.096	-71
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86.6096	151.18	-71	86.5004	151.239	-71
86.3912	151.299	-71	86.2819	151.358	-71
86.1727	151.418	-71	86.0635	151.477	-71
85.9543	151.536	-66	85.8451	151.596	-67
85.7359	151.655	-67	85.5174	151.715	-67
85.5174	151.733	-70	85.4414	151.752	-70
85.3654	151.771	-69	85.2894	151.789	-69
85.2134	151.808	-68	85.1373	151.826	-66
85.0613	151.845	-67	84.9853	151.864	-67
84.9093	151.882	-71	84.7572	151.901	-69
84.7572	151.948	-69	84.6463	151.995	-69
84.5355	152.042	-70	84.4246	152.069	-70
84.3137	152.136	-70	84.2029	152.183	-70
84.092	152.23	-70	83.9811	152.277	-71
83.8703	152.324	-70	83.6485	152.371	-70
83.6485	152.391	-70	83.5728	152.41	-70
83.4971	152.43	-70	83.4215	152.45	-69
83.3458	152.469	-69	83.2701	152.489	-69
83.1944	152.508	-69	83.1187	152.528	-69
83.0431	152.548	-70	82.8917	152.567	-70
82.8917	152.64	-69	82.753	152.714	-69
82.6144	152.787	-69	82.4758	152.86	-69
82.3371	152.933	-70	82.1985	153.006	-70
82.0598	153.08	-70	81.9212	153.153	-70
81.7825	153.226	-70	81.5052	153.299	-70
81.5052	153.32	-70	81.43	153.341	-70
81.3548	153.362	-70	81.2796	153.383	-70
81.2043	153.404	-69	81.1291	153.425	-68
81.0539	153.446	-68	80.9787	153.467	-69
80.9035	153.488	-69	80.753	153.508	-70

80.753	153.567	-70	80.6654	153.626	-70
80.5777	153.685	-68	80.49	153.743	-69
80.4023	153.802	-69	80.3147	153.861	-69
80.227	153.92	-69	80.1393	153.978	-69
80.0516	154.037	-69	79.8763	154.096	-69
79.8763	154.114	-68	79.7904	154.133	-69
79.7045	154.151	-69	79.6185	154.169	-69
79.5326	154.188	-69	79.4467	154.206	-69
79.3608	154.225	-69	79.2749	154.243	-69
79.189	154.261	-69	79.0171	154.28	-69
79.0171	154.357	-69	78.8965	154.435	-69
78.7759	154.512	-69	78.6553	154.59	-69
78.5347	154.667	-69	78.414	154.744	-69
78.2934	154.822	-69	78.1728	154.899	-70
78.0522	154.977	-69	77.811	155.054	-69
77.811	155.077	-69	77.7357	155.101	-68
77.6605	155.124	-68	77.5852	155.147	-67
77.51	155.171	-68	77.4347	155.194	-67
77.3595	155.217	-67	77.2842	155.24	-68
77.209	155.264	-67	77.0585	155.287	-67
77.0585	155.353	-67	76.9596	155.42	-67
76.8607	155.486	-67	76.7618	155.552	-67
76.6629	155.618	-66	76.5641	155.685	-66
76.4652	155.751	-66	76.3663	155.817	-66
76.2674	155.883	-66	76.0697	155.949	-66
76.0697	155.982	-66	75.9545	156.015	-66
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75.609	156.114	-66	75.4938	156.146	-67
75.3786	156.179	-66	75.2634	156.212	-66
75.1483	156.245	-66	74.9179	156.278	-66
74.9179	156.347	-66	74.8205	156.417	-66
74.7231	156.486	-66	74.6257	156.555	-65
74.5283	156.625	-65	74.4309	156.694	-66
74.3335	156.763	-66	74.2361	156.833	-66
74.1387	156.902	-66	73.9439	156.971	-66

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73.9439	156.995	-67	73.8602	157.018	-67
73.7766	157.042	-66	73.6929	157.065	-66
73.6092	157.088	-66	73.5256	157.112	-66
73.4419	157.135	-66	73.3582	157.158	-67
73.2746	157.182	-66	73.1907	157.205	-66
73.1073	157.228	-67	73.0081	157.263	-66
72.9089	157.442	-66	72.8098	157.52	-66
72.7106	157.599	-67	72.6114	157.678	-67
72.5123	157.757	-67	72.4131	157.836	-66
72.314	157.915	-67	72.1156	157.993	-67
72.1156	158.041	-67	72.0094	158.089	-94
71.9031	158.137	-100	71.7968	158.185	-67
71.6906	158.232	-67	71.5843	158.28	-67
71.478	158.328	-67	71.3718	158.376	-67
71.2655	158.424	-67	71.053	158.471	-67
71.053	158.497	-67	70.9701	158.523	-66
70.8873	158.549	-67	70.8045	158.575	-67
70.7216	158.601	-67	70.6386	158.627	-67
70.5559	158.653	-67	70.4731	158.679	-66
70.3902	158.706	-78	70.2245	158.732	-107

END

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