

Polished

Taqi

```
# Setup parallel computations
future::plan(strategy = multisession)
print("Future plan has been set to multisession by default.")

## [1] "Future plan has been set to multisession by default."

norm_ens <- RME_norm(N = 20, herm = T, size = 100)
spectrum(norm_ens)
```

##		Re	Im	Norm	Order
## 1		-8.5286	0	8.5286	1
## 2		8.3566	0	8.3566	2
## 3		6.7894	0	6.7894	3
## 4		6.6231	0	6.6231	4
## 5		-6.1555	0	6.1555	5
## 6		-5.4950	0	5.4950	6
## 7		4.5264	0	4.5264	7
## 8		-4.1069	0	4.1069	8
## 9		3.9046	0	3.9046	9
## 10		-3.6220	0	3.6220	10
## 11		3.4307	0	3.4307	11
## 12		-2.7896	0	2.7896	12
## 13		2.7548	0	2.7548	13
## 14		-2.3590	0	2.3590	14
## 15		1.4991	0	1.4991	15
## 16		1.1811	0	1.1811	16
## 17		-0.9964	0	0.9964	17
## 18		0.7136	0	0.7136	18
## 19		-0.4074	0	0.4074	19
## 20		-0.3391	0	0.3391	20
## 21		-7.3725	0	7.3725	1
## 22		6.0905	0	6.0905	2
## 23		-5.9059	0	5.9059	3
## 24		5.5596	0	5.5596	4
## 25		-5.4954	0	5.4954	5
## 26		-5.0573	0	5.0573	6
## 27		4.9817	0	4.9817	7
## 28		4.3383	0	4.3383	8
## 29		-3.8833	0	3.8833	9
## 30		3.4458	0	3.4458	10
## 31		-3.3434	0	3.3434	11
## 32		3.1834	0	3.1834	12
## 33		2.4562	0	2.4562	13
## 34		-2.2555	0	2.2555	14
## 35		2.0253	0	2.0253	15

## 36	-1.9812	0	1.9812	16
## 37	1.4586	0	1.4586	17
## 38	-1.2732	0	1.2732	18
## 39	0.6811	0	0.6811	19
## 40	-0.3371	0	0.3371	20
## 41	8.4485	0	8.4485	1
## 42	-6.3161	0	6.3161	2
## 43	-5.8282	0	5.8282	3
## 44	5.8034	0	5.8034	4
## 45	5.2510	0	5.2510	5
## 46	-5.1579	0	5.1579	6
## 47	-4.7091	0	4.7091	7
## 48	4.4705	0	4.4705	8
## 49	3.9288	0	3.9288	9
## 50	-3.1560	0	3.1560	10
## 51	-3.0339	0	3.0339	11
## 52	2.8132	0	2.8132	12
## 53	2.6206	0	2.6206	13
## 54	-2.3386	0	2.3386	14
## 55	1.8353	0	1.8353	15
## 56	-1.6050	0	1.6050	16
## 57	-0.8831	0	0.8831	17
## 58	0.6765	0	0.6765	18
## 59	0.2808	0	0.2808	19
## 60	-0.0985	0	0.0985	20
## 61	8.5186	0	8.5186	1
## 62	-8.0057	0	8.0057	2
## 63	-7.3626	0	7.3626	3
## 64	6.4946	0	6.4946	4
## 65	5.3226	0	5.3226	5
## 66	-5.2567	0	5.2567	6
## 67	4.7773	0	4.7773	7
## 68	4.0059	0	4.0059	8
## 69	-3.9010	0	3.9010	9
## 70	-3.7572	0	3.7572	10
## 71	3.7399	0	3.7399	11
## 72	-3.3349	0	3.3349	12
## 73	-2.3821	0	2.3821	13
## 74	2.3174	0	2.3174	14
## 75	-1.9265	0	1.9265	15
## 76	-1.4773	0	1.4773	16
## 77	1.4574	0	1.4574	17
## 78	1.1734	0	1.1734	18
## 79	-0.8593	0	0.8593	19
## 80	-0.1429	0	0.1429	20
## 81	8.5032	0	8.5032	1
## 82	-7.9288	0	7.9288	2
## 83	6.8540	0	6.8540	3
## 84	-6.4890	0	6.4890	4
## 85	-5.6688	0	5.6688	5
## 86	-4.8053	0	4.8053	6
## 87	4.7641	0	4.7641	7
## 88	3.8325	0	3.8325	8
## 89	-3.5782	0	3.5782	9

## 90	-2.9965	0	2.9965	10
## 91	2.9224	0	2.9224	11
## 92	2.9020	0	2.9020	12
## 93	2.1333	0	2.1333	13
## 94	-2.1174	0	2.1174	14
## 95	-1.8333	0	1.8333	15
## 96	1.3284	0	1.3284	16
## 97	-1.3166	0	1.3166	17
## 98	0.6905	0	0.6905	18
## 99	-0.6385	0	0.6385	19
## 100	0.0146	0	0.0146	20
## 101	-8.1986	0	8.1986	1
## 102	7.4038	0	7.4038	2
## 103	-6.7303	0	6.7303	3
## 104	5.3924	0	5.3924	4
## 105	-5.1201	0	5.1201	5
## 106	4.9867	0	4.9867	6
## 107	-4.6337	0	4.6337	7
## 108	4.1853	0	4.1853	8
## 109	3.5701	0	3.5701	9
## 110	-3.4916	0	3.4916	10
## 111	-2.9795	0	2.9795	11
## 112	-2.6314	0	2.6314	12
## 113	2.6230	0	2.6230	13
## 114	2.4134	0	2.4134	14
## 115	1.9666	0	1.9666	15
## 116	-1.2047	0	1.2047	16
## 117	0.9555	0	0.9555	17
## 118	-0.7111	0	0.7111	18
## 119	-0.5332	0	0.5332	19
## 120	-0.4231	0	0.4231	20
## 121	7.8081	0	7.8081	1
## 122	-6.9953	0	6.9953	2
## 123	-6.5703	0	6.5703	3
## 124	6.5214	0	6.5214	4
## 125	5.2952	0	5.2952	5
## 126	-5.0808	0	5.0808	6
## 127	-4.8204	0	4.8204	7
## 128	4.0672	0	4.0672	8
## 129	-3.8194	0	3.8194	9
## 130	3.7745	0	3.7745	10
## 131	-3.4239	0	3.4239	11
## 132	3.2832	0	3.2832	12
## 133	-2.8691	0	2.8691	13
## 134	-2.6069	0	2.6069	14
## 135	2.5857	0	2.5857	15
## 136	-2.0298	0	2.0298	16
## 137	1.7960	0	1.7960	17
## 138	1.1537	0	1.1537	18
## 139	0.8946	0	0.8946	19
## 140	-0.7982	0	0.7982	20
## 141	-9.5001	0	9.5001	1
## 142	7.7652	0	7.7652	2
## 143	-7.7519	0	7.7519	3

## 144	7.1399	0	7.1399	4
## 145	-5.8673	0	5.8673	5
## 146	5.6503	0	5.6503	6
## 147	-4.8437	0	4.8437	7
## 148	4.7976	0	4.7976	8
## 149	-4.2401	0	4.2401	9
## 150	4.1895	0	4.1895	10
## 151	2.9956	0	2.9956	11
## 152	-2.9026	0	2.9026	12
## 153	-2.4702	0	2.4702	13
## 154	1.8805	0	1.8805	14
## 155	1.7313	0	1.7313	15
## 156	-1.3586	0	1.3586	16
## 157	-1.0905	0	1.0905	17
## 158	0.9746	0	0.9746	18
## 159	0.3440	0	0.3440	19
## 160	0.2599	0	0.2599	20
## 161	-8.6610	0	8.6610	1
## 162	7.7963	0	7.7963	2
## 163	7.1944	0	7.1944	3
## 164	-6.7165	0	6.7165	4
## 165	-5.8223	0	5.8223	5
## 166	5.7630	0	5.7630	6
## 167	5.5731	0	5.5731	7
## 168	-4.8404	0	4.8404	8
## 169	4.5211	0	4.5211	9
## 170	3.7538	0	3.7538	10
## 171	-3.7318	0	3.7318	11
## 172	-2.7522	0	2.7522	12
## 173	2.6996	0	2.6996	13
## 174	-2.5001	0	2.5001	14
## 175	2.3684	0	2.3684	15
## 176	-1.9480	0	1.9480	16
## 177	-1.2952	0	1.2952	17
## 178	1.0365	0	1.0365	18
## 179	0.3526	0	0.3526	19
## 180	-0.0172	0	0.0172	20
## 181	7.9948	0	7.9948	1
## 182	-7.9130	0	7.9130	2
## 183	7.0392	0	7.0392	3
## 184	-6.7836	0	6.7836	4
## 185	-6.6099	0	6.6099	5
## 186	6.1613	0	6.1613	6
## 187	-5.4594	0	5.4594	7
## 188	4.9826	0	4.9826	8
## 189	4.3759	0	4.3759	9
## 190	-4.1313	0	4.1313	10
## 191	-3.1773	0	3.1773	11
## 192	3.1671	0	3.1671	12
## 193	-2.9822	0	2.9822	13
## 194	-2.5025	0	2.5025	14
## 195	2.3606	0	2.3606	15
## 196	1.7550	0	1.7550	16
## 197	1.7235	0	1.7235	17

## 198	-0.9343	0 0.9343	18
## 199	0.8868	0 0.8868	19
## 200	-0.1568	0 0.1568	20
## 201	-7.6267	0 7.6267	1
## 202	-6.7006	0 6.7006	2
## 203	-6.3741	0 6.3741	3
## 204	6.0043	0 6.0043	4
## 205	5.7924	0 5.7924	5
## 206	5.0403	0 5.0403	6
## 207	4.4800	0 4.4800	7
## 208	-4.1341	0 4.1341	8
## 209	3.9299	0 3.9299	9
## 210	-3.6323	0 3.6323	10
## 211	-3.0940	0 3.0940	11
## 212	3.0447	0 3.0447	12
## 213	2.6913	0 2.6913	13
## 214	-2.2152	0 2.2152	14
## 215	1.9962	0 1.9962	15
## 216	-1.4555	0 1.4555	16
## 217	1.2303	0 1.2303	17
## 218	-1.0031	0 1.0031	18
## 219	-0.6297	0 0.6297	19
## 220	-0.2920	0 0.2920	20
## 221	8.3135	0 8.3135	1
## 222	-7.8406	0 7.8406	2
## 223	-6.9499	0 6.9499	3
## 224	5.9360	0 5.9360	4
## 225	5.4828	0 5.4828	5
## 226	-5.2481	0 5.2481	6
## 227	4.6000	0 4.6000	7
## 228	-4.4971	0 4.4971	8
## 229	-3.7916	0 3.7916	9
## 230	3.6913	0 3.6913	10
## 231	3.2453	0 3.2453	11
## 232	3.0961	0 3.0961	12
## 233	-3.0558	0 3.0558	13
## 234	2.3543	0 2.3543	14
## 235	-1.8899	0 1.8899	15
## 236	1.5236	0 1.5236	16
## 237	-1.1857	0 1.1857	17
## 238	0.9128	0 0.9128	18
## 239	-0.7722	0 0.7722	19
## 240	-0.4618	0 0.4618	20
## 241	8.5764	0 8.5764	1
## 242	8.4272	0 8.4272	2
## 243	-7.3493	0 7.3493	3
## 244	7.0127	0 7.0127	4
## 245	-6.3498	0 6.3498	5
## 246	6.0220	0 6.0220	6
## 247	-5.7918	0 5.7918	7
## 248	5.0475	0 5.0475	8
## 249	-4.6647	0 4.6647	9
## 250	-4.0030	0 4.0030	10
## 251	3.8219	0 3.8219	11

## 252	-3.4881	0	3.4881	12
## 253	2.8231	0	2.8231	13
## 254	-2.5127	0	2.5127	14
## 255	-2.2762	0	2.2762	15
## 256	1.1543	0	1.1543	16
## 257	-1.0112	0	1.0112	17
## 258	-0.7761	0	0.7761	18
## 259	0.3863	0	0.3863	19
## 260	-0.1657	0	0.1657	20
## 261	-8.7348	0	8.7348	1
## 262	7.5973	0	7.5973	2
## 263	7.1604	0	7.1604	3
## 264	-6.8558	0	6.8558	4
## 265	-5.8310	0	5.8310	5
## 266	5.0561	0	5.0561	6
## 267	-5.0495	0	5.0495	7
## 268	4.8473	0	4.8473	8
## 269	4.3291	0	4.3291	9
## 270	-4.2165	0	4.2165	10
## 271	3.8156	0	3.8156	11
## 272	-3.1905	0	3.1905	12
## 273	-2.9009	0	2.9009	13
## 274	2.3553	0	2.3553	14
## 275	-2.3258	0	2.3258	15
## 276	2.0484	0	2.0484	16
## 277	-1.3121	0	1.3121	17
## 278	1.2739	0	1.2739	18
## 279	-0.9443	0	0.9443	19
## 280	-0.3660	0	0.3660	20
## 281	-8.4619	0	8.4619	1
## 282	6.9436	0	6.9436	2
## 283	-6.4512	0	6.4512	3
## 284	-6.0916	0	6.0916	4
## 285	6.0007	0	6.0007	5
## 286	-5.3039	0	5.3039	6
## 287	5.1396	0	5.1396	7
## 288	4.3415	0	4.3415	8
## 289	-4.2273	0	4.2273	9
## 290	3.8028	0	3.8028	10
## 291	-3.5929	0	3.5929	11
## 292	3.0511	0	3.0511	12
## 293	-2.8682	0	2.8682	13
## 294	2.4898	0	2.4898	14
## 295	-1.6162	0	1.6162	15
## 296	-1.4481	0	1.4481	16
## 297	1.2664	0	1.2664	17
## 298	-0.8799	0	0.8799	18
## 299	0.5183	0	0.5183	19
## 300	-0.1548	0	0.1548	20
## 301	-8.1648	0	8.1648	1
## 302	-7.0671	0	7.0671	2
## 303	6.7219	0	6.7219	3
## 304	6.5100	0	6.5100	4
## 305	-6.2131	0	6.2131	5

## 306	6.0267	0 6.0267	6
## 307	5.6708	0 5.6708	7
## 308	-5.3436	0 5.3436	8
## 309	4.3284	0 4.3284	9
## 310	-4.0521	0 4.0521	10
## 311	-3.4175	0 3.4175	11
## 312	2.8054	0 2.8054	12
## 313	2.3768	0 2.3768	13
## 314	-2.3386	0 2.3386	14
## 315	1.9124	0 1.9124	15
## 316	-1.8938	0 1.8938	16
## 317	-1.5463	0 1.5463	17
## 318	1.5109	0 1.5109	18
## 319	0.9797	0 0.9797	19
## 320	0.1821	0 0.1821	20
## 321	8.3436	0 8.3436	1
## 322	-8.2232	0 8.2232	2
## 323	7.3001	0 7.3001	3
## 324	-6.9434	0 6.9434	4
## 325	-6.1874	0 6.1874	5
## 326	5.7651	0 5.7651	6
## 327	5.0675	0 5.0675	7
## 328	-4.4729	0 4.4729	8
## 329	4.3735	0 4.3735	9
## 330	-4.0749	0 4.0749	10
## 331	3.5970	0 3.5970	11
## 332	-3.5521	0 3.5521	12
## 333	2.9960	0 2.9960	13
## 334	-2.6838	0 2.6838	14
## 335	2.1485	0 2.1485	15
## 336	-1.7570	0 1.7570	16
## 337	1.5390	0 1.5390	17
## 338	-1.2493	0 1.2493	18
## 339	0.9323	0 0.9323	19
## 340	-0.2210	0 0.2210	20
## 341	9.5557	0 9.5557	1
## 342	-8.5709	0 8.5709	2
## 343	-6.5613	0 6.5613	3
## 344	6.3160	0 6.3160	4
## 345	5.9022	0 5.9022	5
## 346	-5.2317	0 5.2317	6
## 347	5.0458	0 5.0458	7
## 348	-4.9656	0 4.9656	8
## 349	4.2313	0 4.2313	9
## 350	4.0492	0 4.0492	10
## 351	-3.8730	0 3.8730	11
## 352	-3.1057	0 3.1057	12
## 353	3.0649	0 3.0649	13
## 354	2.3997	0 2.3997	14
## 355	-1.5519	0 1.5519	15
## 356	1.3890	0 1.3890	16
## 357	-1.3449	0 1.3449	17
## 358	-0.8249	0 0.8249	18
## 359	-0.3839	0 0.3839	19

## 360	0.2882	0	0.2882	20
## 361	-8.6983	0	8.6983	1
## 362	8.5849	0	8.5849	2
## 363	-6.7469	0	6.7469	3
## 364	6.1667	0	6.1667	4
## 365	-6.0974	0	6.0974	5
## 366	-5.1682	0	5.1682	6
## 367	5.0342	0	5.0342	7
## 368	-4.8692	0	4.8692	8
## 369	4.7319	0	4.7319	9
## 370	3.6394	0	3.6394	10
## 371	-3.4938	0	3.4938	11
## 372	-2.7040	0	2.7040	12
## 373	2.4519	0	2.4519	13
## 374	2.0835	0	2.0835	14
## 375	1.5885	0	1.5885	15
## 376	-1.2937	0	1.2937	16
## 377	0.8566	0	0.8566	17
## 378	-0.7279	0	0.7279	18
## 379	0.4670	0	0.4670	19
## 380	-0.0853	0	0.0853	20
## 381	7.3304	0	7.3304	1
## 382	6.4950	0	6.4950	2
## 383	-6.3965	0	6.3965	3
## 384	5.7280	0	5.7280	4
## 385	-5.1857	0	5.1857	5
## 386	-4.8977	0	4.8977	6
## 387	-4.4059	0	4.4059	7
## 388	4.1839	0	4.1839	8
## 389	3.9046	0	3.9046	9
## 390	-3.0235	0	3.0235	10
## 391	2.7285	0	2.7285	11
## 392	2.6811	0	2.6811	12
## 393	-2.2098	0	2.2098	13
## 394	2.0770	0	2.0770	14
## 395	1.8948	0	1.8948	15
## 396	-1.4366	0	1.4366	16
## 397	-0.9268	0	0.9268	17
## 398	0.3152	0	0.3152	18
## 399	-0.2649	0	0.2649	19
## 400	-0.1142	0	0.1142	20
## 401	7.6784	0	7.6784	1
## 402	-6.9028	0	6.9028	2
## 403	6.5721	0	6.5721	3
## 404	6.1631	0	6.1631	4
## 405	-6.0193	0	6.0193	5
## 406	5.8461	0	5.8461	6
## 407	-5.8040	0	5.8040	7
## 408	4.7179	0	4.7179	8
## 409	-4.6416	0	4.6416	9
## 410	4.5253	0	4.5253	10
## 411	-3.3961	0	3.3961	11
## 412	3.3835	0	3.3835	12
## 413	2.7822	0	2.7822	13

## 414	-2.6371	0	2.6371	14
## 415	-2.3349	0	2.3349	15
## 416	1.7112	0	1.7112	16
## 417	-1.5154	0	1.5154	17
## 418	1.2776	0	1.2776	18
## 419	-0.6036	0	0.6036	19
## 420	0.1862	0	0.1862	20
## 421	-9.5028	0	9.5028	1
## 422	8.3720	0	8.3720	2
## 423	-7.0816	0	7.0816	3
## 424	7.0499	0	7.0499	4
## 425	-6.1800	0	6.1800	5
## 426	5.3570	0	5.3570	6
## 427	4.9180	0	4.9180	7
## 428	-4.6917	0	4.6917	8
## 429	3.9013	0	3.9013	9
## 430	-3.5689	0	3.5689	10
## 431	3.5517	0	3.5517	11
## 432	-3.1266	0	3.1266	12
## 433	3.0525	0	3.0525	13
## 434	-2.5847	0	2.5847	14
## 435	1.8289	0	1.8289	15
## 436	-1.8139	0	1.8139	16
## 437	-1.6416	0	1.6416	17
## 438	1.4047	0	1.4047	18
## 439	-0.3080	0	0.3080	19
## 440	0.2313	0	0.2313	20
## 441	8.1212	0	8.1212	1
## 442	-7.6587	0	7.6587	2
## 443	6.9758	0	6.9758	3
## 444	-6.4176	0	6.4176	4
## 445	-5.5239	0	5.5239	5
## 446	5.1306	0	5.1306	6
## 447	4.8047	0	4.8047	7
## 448	-4.7485	0	4.7485	8
## 449	4.3009	0	4.3009	9
## 450	-3.9534	0	3.9534	10
## 451	-3.6896	0	3.6896	11
## 452	3.4044	0	3.4044	12
## 453	-2.6161	0	2.6161	13
## 454	2.5931	0	2.5931	14
## 455	-2.3647	0	2.3647	15
## 456	2.3624	0	2.3624	16
## 457	1.2668	0	1.2668	17
## 458	-0.5022	0	0.5022	18
## 459	-0.3843	0	0.3843	19
## 460	0.3793	0	0.3793	20
## 461	-8.0761	0	8.0761	1
## 462	7.6783	0	7.6783	2
## 463	7.2685	0	7.2685	3
## 464	-6.7928	0	6.7928	4
## 465	6.5074	0	6.5074	5
## 466	-5.9057	0	5.9057	6
## 467	4.4660	0	4.4660	7

## 468	-4.3075	0 4.3075	8
## 469	-3.9914	0 3.9914	9
## 470	3.9738	0 3.9738	10
## 471	3.7014	0 3.7014	11
## 472	-3.5936	0 3.5936	12
## 473	2.9653	0 2.9653	13
## 474	-2.4066	0 2.4066	14
## 475	2.3106	0 2.3106	15
## 476	-2.0511	0 2.0511	16
## 477	-1.3633	0 1.3633	17
## 478	1.2775	0 1.2775	18
## 479	0.8137	0 0.8137	19
## 480	-0.1419	0 0.1419	20
## 481	-8.6523	0 8.6523	1
## 482	7.2397	0 7.2397	2
## 483	-6.6179	0 6.6179	3
## 484	6.3114	0 6.3114	4
## 485	5.7393	0 5.7393	5
## 486	-5.5349	0 5.5349	6
## 487	-4.9060	0 4.9060	7
## 488	4.6570	0 4.6570	8
## 489	-4.4626	0 4.4626	9
## 490	-4.1130	0 4.1130	10
## 491	3.5526	0 3.5526	11
## 492	2.7622	0 2.7622	12
## 493	2.4474	0 2.4474	13
## 494	-2.1106	0 2.1106	14
## 495	1.4670	0 1.4670	15
## 496	-1.4519	0 1.4519	16
## 497	1.1340	0 1.1340	17
## 498	1.0233	0 1.0233	18
## 499	-0.7836	0 0.7836	19
## 500	-0.7107	0 0.7107	20
## 501	-7.6709	0 7.6709	1
## 502	7.4914	0 7.4914	2
## 503	-7.2547	0 7.2547	3
## 504	-6.0128	0 6.0128	4
## 505	5.9084	0 5.9084	5
## 506	5.3729	0 5.3729	6
## 507	-4.6618	0 4.6618	7
## 508	4.4496	0 4.4496	8
## 509	-4.3037	0 4.3037	9
## 510	3.9543	0 3.9543	10
## 511	3.1575	0 3.1575	11
## 512	-3.0226	0 3.0226	12
## 513	3.0008	0 3.0008	13
## 514	-2.7294	0 2.7294	14
## 515	-2.2843	0 2.2843	15
## 516	2.1599	0 2.1599	16
## 517	1.2381	0 1.2381	17
## 518	-1.0874	0 1.0874	18
## 519	0.1666	0 0.1666	19
## 520	-0.1473	0 0.1473	20
## 521	8.1238	0 8.1238	1

## 522	-7.7971	0 7.7971	2
## 523	6.7954	0 6.7954	3
## 524	-6.6745	0 6.6745	4
## 525	-6.0535	0 6.0535	5
## 526	4.6319	0 4.6319	6
## 527	4.2529	0 4.2529	7
## 528	-4.1565	0 4.1565	8
## 529	4.0769	0 4.0769	9
## 530	3.5487	0 3.5487	10
## 531	-3.1777	0 3.1777	11
## 532	-2.7541	0 2.7541	12
## 533	2.6408	0 2.6408	13
## 534	-2.6289	0 2.6289	14
## 535	2.1737	0 2.1737	15
## 536	-1.9559	0 1.9559	16
## 537	1.2516	0 1.2516	17
## 538	-0.6383	0 0.6383	18
## 539	-0.1201	0 0.1201	19
## 540	0.0837	0 0.0837	20
## 541	-8.7385	0 8.7385	1
## 542	8.1985	0 8.1985	2
## 543	-6.9769	0 6.9769	3
## 544	6.9284	0 6.9284	4
## 545	5.5399	0 5.5399	5
## 546	-5.3090	0 5.3090	6
## 547	4.9570	0 4.9570	7
## 548	-4.6568	0 4.6568	8
## 549	3.9402	0 3.9402	9
## 550	-3.4019	0 3.4019	10
## 551	-2.7089	0 2.7089	11
## 552	2.5376	0 2.5376	12
## 553	-2.4576	0 2.4576	13
## 554	2.2128	0 2.2128	14
## 555	-1.7083	0 1.7083	15
## 556	1.2971	0 1.2971	16
## 557	-0.6968	0 0.6968	17
## 558	0.6708	0 0.6708	18
## 559	0.5688	0 0.5688	19
## 560	0.1501	0 0.1501	20
## 561	-7.8512	0 7.8512	1
## 562	7.1404	0 7.1404	2
## 563	6.6698	0 6.6698	3
## 564	-6.3880	0 6.3880	4
## 565	5.9371	0 5.9371	5
## 566	-5.8141	0 5.8141	6
## 567	4.6111	0 4.6111	7
## 568	-4.5864	0 4.5864	8
## 569	3.5667	0 3.5667	9
## 570	-3.1761	0 3.1761	10
## 571	3.1039	0 3.1039	11
## 572	-2.6064	0 2.6064	12
## 573	2.0755	0 2.0755	13
## 574	-2.0163	0 2.0163	14
## 575	-1.6467	0 1.6467	15

## 576	1.6075	0 1.6075	16
## 577	-0.9782	0 0.9782	17
## 578	0.9114	0 0.9114	18
## 579	-0.6237	0 0.6237	19
## 580	-0.2303	0 0.2303	20
## 581	8.0777	0 8.0777	1
## 582	6.6561	0 6.6561	2
## 583	-6.3939	0 6.3939	3
## 584	-5.8918	0 5.8918	4
## 585	-5.6710	0 5.6710	5
## 586	5.4248	0 5.4248	6
## 587	5.0677	0 5.0677	7
## 588	-4.7243	0 4.7243	8
## 589	-4.6386	0 4.6386	9
## 590	3.7976	0 3.7976	10
## 591	-3.1388	0 3.1388	11
## 592	3.0169	0 3.0169	12
## 593	-2.7330	0 2.7330	13
## 594	2.6346	0 2.6346	14
## 595	-1.9989	0 1.9989	15
## 596	1.3483	0 1.3483	16
## 597	-1.0530	0 1.0530	17
## 598	0.6128	0 0.6128	18
## 599	-0.3530	0 0.3530	19
## 600	0.0201	0 0.0201	20
## 601	9.1647	0 9.1647	1
## 602	-6.8180	0 6.8180	2
## 603	-6.1102	0 6.1102	3
## 604	5.9389	0 5.9389	4
## 605	5.7801	0 5.7801	5
## 606	-5.7176	0 5.7176	6
## 607	-5.5318	0 5.5318	7
## 608	5.3332	0 5.3332	8
## 609	4.5462	0 4.5462	9
## 610	-4.5238	0 4.5238	10
## 611	-4.3321	0 4.3321	11
## 612	3.6530	0 3.6530	12
## 613	-3.2920	0 3.2920	13
## 614	3.1499	0 3.1499	14
## 615	-2.9011	0 2.9011	15
## 616	-1.6098	0 1.6098	16
## 617	1.2924	0 1.2924	17
## 618	-0.5940	0 0.5940	18
## 619	0.3699	0 0.3699	19
## 620	-0.3068	0 0.3068	20
## 621	-9.4929	0 9.4929	1
## 622	7.4404	0 7.4404	2
## 623	7.0995	0 7.0995	3
## 624	-7.0970	0 7.0970	4
## 625	-5.8548	0 5.8548	5
## 626	5.6168	0 5.6168	6
## 627	5.1775	0 5.1775	7
## 628	-5.0711	0 5.0711	8
## 629	-4.9864	0 4.9864	9

## 630	3.8684	0	3.8684	10
## 631	3.0096	0	3.0096	11
## 632	2.5335	0	2.5335	12
## 633	2.2245	0	2.2245	13
## 634	-2.1461	0	2.1461	14
## 635	-2.0347	0	2.0347	15
## 636	1.4209	0	1.4209	16
## 637	-1.3469	0	1.3469	17
## 638	0.9912	0	0.9912	18
## 639	-0.8679	0	0.8679	19
## 640	0.4547	0	0.4547	20
## 641	7.7910	0	7.7910	1
## 642	-7.6149	0	7.6149	2
## 643	-7.2491	0	7.2491	3
## 644	6.1565	0	6.1565	4
## 645	-5.9719	0	5.9719	5
## 646	4.4872	0	4.4872	6
## 647	-4.4326	0	4.4326	7
## 648	3.8900	0	3.8900	8
## 649	-3.4049	0	3.4049	9
## 650	-3.1923	0	3.1923	10
## 651	3.1391	0	3.1391	11
## 652	3.0188	0	3.0188	12
## 653	2.1152	0	2.1152	13
## 654	-2.1123	0	2.1123	14
## 655	-2.0474	0	2.0474	15
## 656	1.7482	0	1.7482	16
## 657	-1.2100	0	1.2100	17
## 658	-0.6730	0	0.6730	18
## 659	0.6515	0	0.6515	19
## 660	-0.4571	0	0.4571	20
## 661	-8.7884	0	8.7884	1
## 662	-7.4857	0	7.4857	2
## 663	7.3142	0	7.3142	3
## 664	6.8142	0	6.8142	4
## 665	6.3224	0	6.3224	5
## 666	-5.9957	0	5.9957	6
## 667	5.0651	0	5.0651	7
## 668	-5.0065	0	5.0065	8
## 669	-4.4478	0	4.4478	9
## 670	-4.1191	0	4.1191	10
## 671	3.7680	0	3.7680	11
## 672	-3.1826	0	3.1826	12
## 673	2.5625	0	2.5625	13
## 674	-2.2373	0	2.2373	14
## 675	-1.9513	0	1.9513	15
## 676	1.8812	0	1.8812	16
## 677	1.1225	0	1.1225	17
## 678	-1.0587	0	1.0587	18
## 679	-0.1347	0	0.1347	19
## 680	0.0747	0	0.0747	20
## 681	-8.6240	0	8.6240	1
## 682	7.8020	0	7.8020	2
## 683	6.5579	0	6.5579	3

## 684	-6.4760	0 6.4760	4
## 685	6.2573	0 6.2573	5
## 686	5.8074	0 5.8074	6
## 687	-5.7305	0 5.7305	7
## 688	-5.3870	0 5.3870	8
## 689	5.0809	0 5.0809	9
## 690	-4.3625	0 4.3625	10
## 691	-3.9442	0 3.9442	11
## 692	-2.3794	0 2.3794	12
## 693	2.3384	0 2.3384	13
## 694	1.7642	0 1.7642	14
## 695	-1.6249	0 1.6249	15
## 696	-1.0612	0 1.0612	16
## 697	0.7728	0 0.7728	17
## 698	-0.6385	0 0.6385	18
## 699	0.4748	0 0.4748	19
## 700	-0.2273	0 0.2273	20
## 701	8.4039	0 8.4039	1
## 702	7.6814	0 7.6814	2
## 703	-7.0292	0 7.0292	3
## 704	-6.8085	0 6.8085	4
## 705	5.8188	0 5.8188	5
## 706	-5.6337	0 5.6337	6
## 707	-4.7286	0 4.7286	7
## 708	4.1729	0 4.1729	8
## 709	3.1430	0 3.1430	9
## 710	-3.1296	0 3.1296	10
## 711	-2.7574	0 2.7574	11
## 712	2.4647	0 2.4647	12
## 713	-2.2502	0 2.2502	13
## 714	1.6024	0 1.6024	14
## 715	-1.2725	0 1.2725	15
## 716	-1.2322	0 1.2322	16
## 717	0.7841	0 0.7841	17
## 718	-0.7597	0 0.7597	18
## 719	0.4887	0 0.4887	19
## 720	0.3815	0 0.3815	20
## 721	-8.3270	0 8.3270	1
## 722	6.5632	0 6.5632	2
## 723	-6.0637	0 6.0637	3
## 724	5.9233	0 5.9233	4
## 725	5.5140	0 5.5140	5
## 726	-5.1092	0 5.1092	6
## 727	4.6387	0 4.6387	7
## 728	4.4107	0 4.4107	8
## 729	-4.3827	0 4.3827	9
## 730	-4.0061	0 4.0061	10
## 731	-3.5307	0 3.5307	11
## 732	2.9252	0 2.9252	12
## 733	-2.5670	0 2.5670	13
## 734	-2.0524	0 2.0524	14
## 735	2.0421	0 2.0421	15
## 736	1.4795	0 1.4795	16
## 737	-1.4709	0 1.4709	17

## 738	-0.7370	0 0.7370	18
## 739	0.4406	0 0.4406	19
## 740	0.2349	0 0.2349	20
## 741	8.4789	0 8.4789	1
## 742	-7.3530	0 7.3530	2
## 743	6.8553	0 6.8553	3
## 744	-6.7913	0 6.7913	4
## 745	6.3508	0 6.3508	5
## 746	-5.6016	0 5.6016	6
## 747	4.9564	0 4.9564	7
## 748	-4.8564	0 4.8564	8
## 749	-4.4177	0 4.4177	9
## 750	4.3562	0 4.3562	10
## 751	-3.7941	0 3.7941	11
## 752	3.2281	0 3.2281	12
## 753	-2.6343	0 2.6343	13
## 754	2.1591	0 2.1591	14
## 755	-1.9681	0 1.9681	15
## 756	1.9634	0 1.9634	16
## 757	-1.3500	0 1.3500	17
## 758	0.7512	0 0.7512	18
## 759	0.5583	0 0.5583	19
## 760	-0.4069	0 0.4069	20
## 761	8.5008	0 8.5008	1
## 762	-8.3171	0 8.3171	2
## 763	6.6110	0 6.6110	3
## 764	5.5215	0 5.5215	4
## 765	-5.2272	0 5.2272	5
## 766	4.9382	0 4.9382	6
## 767	-4.8475	0 4.8475	7
## 768	4.3055	0 4.3055	8
## 769	-4.0523	0 4.0523	9
## 770	-3.9242	0 3.9242	10
## 771	3.3264	0 3.3264	11
## 772	-3.1630	0 3.1630	12
## 773	2.8859	0 2.8859	13
## 774	2.1950	0 2.1950	14
## 775	-2.0644	0 2.0644	15
## 776	-1.6296	0 1.6296	16
## 777	-1.0336	0 1.0336	17
## 778	-0.8609	0 0.8609	18
## 779	0.5791	0 0.5791	19
## 780	-0.2309	0 0.2309	20
## 781	8.4805	0 8.4805	1
## 782	-8.4012	0 8.4012	2
## 783	-7.0333	0 7.0333	3
## 784	6.9821	0 6.9821	4
## 785	6.2204	0 6.2204	5
## 786	-5.9510	0 5.9510	6
## 787	5.6181	0 5.6181	7
## 788	-5.0539	0 5.0539	8
## 789	4.3670	0 4.3670	9
## 790	-4.1590	0 4.1590	10
## 791	4.0244	0 4.0244	11

## 792	3.1558	0 3.1558	12
## 793	-2.9059	0 2.9059	13
## 794	-2.6841	0 2.6841	14
## 795	1.8444	0 1.8444	15
## 796	-1.6739	0 1.6739	16
## 797	-1.0348	0 1.0348	17
## 798	0.9836	0 0.9836	18
## 799	-0.6530	0 0.6530	19
## 800	0.0000	0 0.0000	20
## 801	-8.9621	0 8.9621	1
## 802	7.2013	0 7.2013	2
## 803	-6.6867	0 6.6867	3
## 804	6.2775	0 6.2775	4
## 805	-6.1666	0 6.1666	5
## 806	5.3812	0 5.3812	6
## 807	-4.7738	0 4.7738	7
## 808	4.1694	0 4.1694	8
## 809	4.0215	0 4.0215	9
## 810	-3.3133	0 3.3133	10
## 811	3.0052	0 3.0052	11
## 812	-2.7000	0 2.7000	12
## 813	-2.3439	0 2.3439	13
## 814	2.0296	0 2.0296	14
## 815	1.9408	0 1.9408	15
## 816	-1.7585	0 1.7585	16
## 817	0.9073	0 0.9073	17
## 818	0.7601	0 0.7601	18
## 819	-0.6998	0 0.6998	19
## 820	0.2270	0 0.2270	20
## 821	-8.5214	0 8.5214	1
## 822	-8.1079	0 8.1079	2
## 823	7.4252	0 7.4252	3
## 824	7.0346	0 7.0346	4
## 825	-5.8808	0 5.8808	5
## 826	5.8666	0 5.8666	6
## 827	-4.9337	0 4.9337	7
## 828	-4.0556	0 4.0556	8
## 829	3.9833	0 3.9833	9
## 830	3.7036	0 3.7036	10
## 831	-3.6067	0 3.6067	11
## 832	-2.6672	0 2.6672	12
## 833	-2.3507	0 2.3507	13
## 834	-2.0912	0 2.0912	14
## 835	1.8838	0 1.8838	15
## 836	1.7060	0 1.7060	16
## 837	1.4785	0 1.4785	17
## 838	0.9833	0 0.9833	18
## 839	-0.8458	0 0.8458	19
## 840	-0.3184	0 0.3184	20
## 841	7.7322	0 7.7322	1
## 842	-7.6163	0 7.6163	2
## 843	7.3900	0 7.3900	3
## 844	-7.0236	0 7.0236	4
## 845	6.6988	0 6.6988	5

## 846	-6.2369	0 6.2369	6
## 847	5.9929	0 5.9929	7
## 848	-4.8687	0 4.8687	8
## 849	4.6174	0 4.6174	9
## 850	-4.3948	0 4.3948	10
## 851	-3.6045	0 3.6045	11
## 852	3.4358	0 3.4358	12
## 853	-3.1941	0 3.1941	13
## 854	2.8923	0 2.8923	14
## 855	2.8208	0 2.8208	15
## 856	-2.3128	0 2.3128	16
## 857	1.4911	0 1.4911	17
## 858	1.0084	0 1.0084	18
## 859	0.5286	0 0.5286	19
## 860	-0.3646	0 0.3646	20
## 861	8.6137	0 8.6137	1
## 862	-8.2624	0 8.2624	2
## 863	7.7607	0 7.7607	3
## 864	-6.6635	0 6.6635	4
## 865	5.9149	0 5.9149	5
## 866	5.3120	0 5.3120	6
## 867	4.7034	0 4.7034	7
## 868	-4.4910	0 4.4910	8
## 869	-4.0814	0 4.0814	9
## 870	3.4366	0 3.4366	10
## 871	-2.6730	0 2.6730	11
## 872	2.5657	0 2.5657	12
## 873	-2.3990	0 2.3990	13
## 874	2.0914	0 2.0914	14
## 875	1.9064	0 1.9064	15
## 876	-1.7079	0 1.7079	16
## 877	-1.3215	0 1.3215	17
## 878	1.1725	0 1.1725	18
## 879	-0.7683	0 0.7683	19
## 880	0.3216	0 0.3216	20
## 881	-7.6045	0 7.6045	1
## 882	7.4912	0 7.4912	2
## 883	-6.1020	0 6.1020	3
## 884	6.0799	0 6.0799	4
## 885	5.8044	0 5.8044	5
## 886	5.0288	0 5.0288	6
## 887	-4.8309	0 4.8309	7
## 888	-4.5048	0 4.5048	8
## 889	3.9856	0 3.9856	9
## 890	-3.7158	0 3.7158	10
## 891	3.2681	0 3.2681	11
## 892	-2.8318	0 2.8318	12
## 893	-2.6236	0 2.6236	13
## 894	2.2727	0 2.2727	14
## 895	-1.7733	0 1.7733	15
## 896	1.6057	0 1.6057	16
## 897	1.1016	0 1.1016	17
## 898	0.7035	0 0.7035	18
## 899	-0.6864	0 0.6864	19

## 900	-0.0003	0 0.0003	20
## 901	9.4197	0 9.4197	1
## 902	-8.0060	0 8.0060	2
## 903	7.7327	0 7.7327	3
## 904	-6.3562	0 6.3562	4
## 905	5.5162	0 5.5162	5
## 906	-5.3044	0 5.3044	6
## 907	-5.0596	0 5.0596	7
## 908	4.4654	0 4.4654	8
## 909	4.1925	0 4.1925	9
## 910	-4.1718	0 4.1718	10
## 911	3.6485	0 3.6485	11
## 912	-3.2882	0 3.2882	12
## 913	2.9731	0 2.9731	13
## 914	2.4671	0 2.4671	14
## 915	-2.1598	0 2.1598	15
## 916	-1.5148	0 1.5148	16
## 917	1.4826	0 1.4826	17
## 918	1.0614	0 1.0614	18
## 919	-1.0124	0 1.0124	19
## 920	-0.1776	0 0.1776	20
## 921	-9.1031	0 9.1031	1
## 922	7.4382	0 7.4382	2
## 923	-7.3129	0 7.3129	3
## 924	6.2718	0 6.2718	4
## 925	5.7340	0 5.7340	5
## 926	-5.6639	0 5.6639	6
## 927	4.5830	0 4.5830	7
## 928	-4.5059	0 4.5059	8
## 929	-4.1076	0 4.1076	9
## 930	3.8746	0 3.8746	10
## 931	3.2093	0 3.2093	11
## 932	-3.0521	0 3.0521	12
## 933	-2.7747	0 2.7747	13
## 934	2.2191	0 2.2191	14
## 935	1.9253	0 1.9253	15
## 936	1.5869	0 1.5869	16
## 937	-1.1445	0 1.1445	17
## 938	0.5121	0 0.5121	18
## 939	-0.4636	0 0.4636	19
## 940	-0.1757	0 0.1757	20
## 941	-8.3645	0 8.3645	1
## 942	-7.5564	0 7.5564	2
## 943	6.5288	0 6.5288	3
## 944	-6.4952	0 6.4952	4
## 945	5.9990	0 5.9990	5
## 946	-4.9069	0 4.9069	6
## 947	4.8685	0 4.8685	7
## 948	-4.6003	0 4.6003	8
## 949	3.6165	0 3.6165	9
## 950	-3.4475	0 3.4475	10
## 951	3.2800	0 3.2800	11
## 952	-2.9742	0 2.9742	12
## 953	2.5841	0 2.5841	13

## 954	2.2103	0	2.2103	14
## 955	-1.6627	0	1.6627	15
## 956	1.2880	0	1.2880	16
## 957	-1.1856	0	1.1856	17
## 958	-0.8458	0	0.8458	18
## 959	0.5891	0	0.5891	19
## 960	0.4104	0	0.4104	20
## 961	8.8279	0	8.8279	1
## 962	7.7956	0	7.7956	2
## 963	-7.7663	0	7.7663	3
## 964	6.4849	0	6.4849	4
## 965	-6.2351	0	6.2351	5
## 966	-5.8721	0	5.8721	6
## 967	-5.2462	0	5.2462	7
## 968	4.9976	0	4.9976	8
## 969	-4.7022	0	4.7022	9
## 970	4.1330	0	4.1330	10
## 971	-3.8890	0	3.8890	11
## 972	3.6228	0	3.6228	12
## 973	3.0872	0	3.0872	13
## 974	-2.8185	0	2.8185	14
## 975	2.2540	0	2.2540	15
## 976	1.6869	0	1.6869	16
## 977	-1.6257	0	1.6257	17
## 978	-0.9490	0	0.9490	18
## 979	0.2108	0	0.2108	19
## 980	-0.1115	0	0.1115	20
## 981	-8.3238	0	8.3238	1
## 982	7.3933	0	7.3933	2
## 983	6.8137	0	6.8137	3
## 984	-6.2097	0	6.2097	4
## 985	-5.7679	0	5.7679	5
## 986	5.6009	0	5.6009	6
## 987	-5.5678	0	5.5678	7
## 988	4.8097	0	4.8097	8
## 989	-4.4009	0	4.4009	9
## 990	3.5460	0	3.5460	10
## 991	3.2834	0	3.2834	11
## 992	-3.1358	0	3.1358	12
## 993	-2.6939	0	2.6939	13
## 994	2.3110	0	2.3110	14
## 995	1.8331	0	1.8331	15
## 996	-1.6860	0	1.6860	16
## 997	1.3059	0	1.3059	17
## 998	-1.0807	0	1.0807	18
## 999	0.5575	0	0.5575	19
## 1000	-0.1919	0	0.1919	20
## 1001	-8.3651	0	8.3651	1
## 1002	-6.7266	0	6.7266	2
## 1003	6.6475	0	6.6475	3
## 1004	-6.5129	0	6.5129	4
## 1005	6.2064	0	6.2064	5
## 1006	5.1129	0	5.1129	6
## 1007	-4.5953	0	4.5953	7

##	1008	4.4172	0	4.4172	8
##	1009	3.7247	0	3.7247	9
##	1010	-3.5610	0	3.5610	10
##	1011	-3.3092	0	3.3092	11
##	1012	2.9056	0	2.9056	12
##	1013	-2.3167	0	2.3167	13
##	1014	1.9999	0	1.9999	14
##	1015	1.6524	0	1.6524	15
##	1016	-1.4028	0	1.4028	16
##	1017	1.0882	0	1.0882	17
##	1018	0.4068	0	0.4068	18
##	1019	-0.3272	0	0.3272	19
##	1020	-0.2375	0	0.2375	20
##	1021	8.6947	0	8.6947	1
##	1022	-7.3355	0	7.3355	2
##	1023	-6.9861	0	6.9861	3
##	1024	6.9421	0	6.9421	4
##	1025	-6.1890	0	6.1890	5
##	1026	5.5615	0	5.5615	6
##	1027	-5.3723	0	5.3723	7
##	1028	5.1623	0	5.1623	8
##	1029	-4.7677	0	4.7677	9
##	1030	3.7751	0	3.7751	10
##	1031	-3.2243	0	3.2243	11
##	1032	2.7318	0	2.7318	12
##	1033	2.3866	0	2.3866	13
##	1034	-2.0447	0	2.0447	14
##	1035	1.7208	0	1.7208	15
##	1036	-1.4503	0	1.4503	16
##	1037	1.1410	0	1.1410	17
##	1038	-0.9756	0	0.9756	18
##	1039	0.6981	0	0.6981	19
##	1040	-0.3477	0	0.3477	20
##	1041	-9.2444	0	9.2444	1
##	1042	7.3802	0	7.3802	2
##	1043	6.7996	0	6.7996	3
##	1044	-6.7969	0	6.7969	4
##	1045	6.5243	0	6.5243	5
##	1046	-5.6378	0	5.6378	6
##	1047	5.0833	0	5.0833	7
##	1048	-4.7494	0	4.7494	8
##	1049	4.2860	0	4.2860	9
##	1050	-4.2790	0	4.2790	10
##	1051	3.6991	0	3.6991	11
##	1052	-3.6124	0	3.6124	12
##	1053	3.2240	0	3.2240	13
##	1054	-2.6124	0	2.6124	14
##	1055	2.4726	0	2.4726	15
##	1056	-2.2038	0	2.2038	16
##	1057	0.9951	0	0.9951	17
##	1058	-0.6870	0	0.6870	18
##	1059	-0.1180	0	0.1180	19
##	1060	-0.0498	0	0.0498	20
##	1061	7.8215	0	7.8215	1

## 1062	-6.7763	0	6.7763	2
## 1063	6.7560	0	6.7560	3
## 1064	-6.1061	0	6.1061	4
## 1065	-5.9584	0	5.9584	5
## 1066	5.6444	0	5.6444	6
## 1067	4.6758	0	4.6758	7
## 1068	-4.5262	0	4.5262	8
## 1069	4.1273	0	4.1273	9
## 1070	-3.9923	0	3.9923	10
## 1071	-3.8122	0	3.8122	11
## 1072	3.5304	0	3.5304	12
## 1073	3.0132	0	3.0132	13
## 1074	2.6898	0	2.6898	14
## 1075	1.7553	0	1.7553	15
## 1076	1.4929	0	1.4929	16
## 1077	-1.4921	0	1.4921	17
## 1078	-1.3435	0	1.3435	18
## 1079	-1.1350	0	1.1350	19
## 1080	-0.0737	0	0.0737	20
## 1081	-9.5176	0	9.5176	1
## 1082	8.2600	0	8.2600	2
## 1083	-7.2653	0	7.2653	3
## 1084	6.3434	0	6.3434	4
## 1085	-5.5987	0	5.5987	5
## 1086	5.5622	0	5.5622	6
## 1087	4.4996	0	4.4996	7
## 1088	3.9145	0	3.9145	8
## 1089	-3.7830	0	3.7830	9
## 1090	-3.2466	0	3.2466	10
## 1091	3.2298	0	3.2298	11
## 1092	2.7298	0	2.7298	12
## 1093	-2.6687	0	2.6687	13
## 1094	1.9765	0	1.9765	14
## 1095	-1.7000	0	1.7000	15
## 1096	1.5967	0	1.5967	16
## 1097	-1.2191	0	1.2191	17
## 1098	-1.1466	0	1.1466	18
## 1099	0.5290	0	0.5290	19
## 1100	0.0543	0	0.0543	20
## 1101	-8.4428	0	8.4428	1
## 1102	-7.8525	0	7.8525	2
## 1103	7.1452	0	7.1452	3
## 1104	6.4697	0	6.4697	4
## 1105	-5.8591	0	5.8591	5
## 1106	-5.4172	0	5.4172	6
## 1107	5.1607	0	5.1607	7
## 1108	-4.5628	0	4.5628	8
## 1109	4.5157	0	4.5157	9
## 1110	-3.8867	0	3.8867	10
## 1111	3.4106	0	3.4106	11
## 1112	2.7028	0	2.7028	12
## 1113	-2.4890	0	2.4890	13
## 1114	2.2751	0	2.2751	14
## 1115	-2.1369	0	2.1369	15

##	1116	1.8566	0	1.8566	16
##	1117	-1.6965	0	1.6965	17
##	1118	0.7368	0	0.7368	18
##	1119	-0.4963	0	0.4963	19
##	1120	0.4212	0	0.4212	20
##	1121	8.2500	0	8.2500	1
##	1122	-8.1348	0	8.1348	2
##	1123	7.4902	0	7.4902	3
##	1124	-6.6816	0	6.6816	4
##	1125	6.6396	0	6.6396	5
##	1126	-6.0879	0	6.0879	6
##	1127	-4.6628	0	4.6628	7
##	1128	4.1317	0	4.1317	8
##	1129	-3.9179	0	3.9179	9
##	1130	-2.7646	0	2.7646	10
##	1131	2.7166	0	2.7166	11
##	1132	-2.4828	0	2.4828	12
##	1133	2.2353	0	2.2353	13
##	1134	2.0526	0	2.0526	14
##	1135	-1.4591	0	1.4591	15
##	1136	1.2874	0	1.2874	16
##	1137	-1.2639	0	1.2639	17
##	1138	0.6114	0	0.6114	18
##	1139	-0.2795	0	0.2795	19
##	1140	0.2722	0	0.2722	20
##	1141	-8.3688	0	8.3688	1
##	1142	8.1029	0	8.1029	2
##	1143	6.9485	0	6.9485	3
##	1144	-6.6494	0	6.6494	4
##	1145	-6.1281	0	6.1281	5
##	1146	5.7504	0	5.7504	6
##	1147	5.2217	0	5.2217	7
##	1148	-4.4829	0	4.4829	8
##	1149	4.1301	0	4.1301	9
##	1150	3.3857	0	3.3857	10
##	1151	-3.1098	0	3.1098	11
##	1152	-2.8256	0	2.8256	12
##	1153	2.5708	0	2.5708	13
##	1154	-2.1566	0	2.1566	14
##	1155	-1.2470	0	1.2470	15
##	1156	1.0511	0	1.0511	16
##	1157	0.9404	0	0.9404	17
##	1158	-0.6029	0	0.6029	18
##	1159	0.5145	0	0.5145	19
##	1160	0.2559	0	0.2559	20
##	1161	7.8154	0	7.8154	1
##	1162	-7.2724	0	7.2724	2
##	1163	-6.5942	0	6.5942	3
##	1164	6.0489	0	6.0489	4
##	1165	-5.5587	0	5.5587	5
##	1166	-4.9975	0	4.9975	6
##	1167	4.5116	0	4.5116	7
##	1168	-4.1163	0	4.1163	8
##	1169	3.6329	0	3.6329	9

##	1170	3.3376	0	3.3376	10
##	1171	-3.0570	0	3.0570	11
##	1172	2.8192	0	2.8192	12
##	1173	-2.3566	0	2.3566	13
##	1174	2.0990	0	2.0990	14
##	1175	-1.7707	0	1.7707	15
##	1176	1.7124	0	1.7124	16
##	1177	1.3174	0	1.3174	17
##	1178	1.2978	0	1.2978	18
##	1179	-0.5985	0	0.5985	19
##	1180	0.2577	0	0.2577	20
##	1181	7.7726	0	7.7726	1
##	1182	-7.6544	0	7.6544	2
##	1183	-7.0244	0	7.0244	3
##	1184	6.3357	0	6.3357	4
##	1185	6.1811	0	6.1811	5
##	1186	-5.6919	0	5.6919	6
##	1187	4.9662	0	4.9662	7
##	1188	-4.6258	0	4.6258	8
##	1189	3.7412	0	3.7412	9
##	1190	-3.5092	0	3.5092	10
##	1191	3.1407	0	3.1407	11
##	1192	2.6598	0	2.6598	12
##	1193	-2.4599	0	2.4599	13
##	1194	-2.1392	0	2.1392	14
##	1195	-1.5274	0	1.5274	15
##	1196	1.3191	0	1.3191	16
##	1197	0.8871	0	0.8871	17
##	1198	-0.7525	0	0.7525	18
##	1199	0.5739	0	0.5739	19
##	1200	0.0959	0	0.0959	20
##	1201	7.8721	0	7.8721	1
##	1202	-7.3157	0	7.3157	2
##	1203	6.9837	0	6.9837	3
##	1204	-6.8243	0	6.8243	4
##	1205	-5.6163	0	5.6163	5
##	1206	5.3678	0	5.3678	6
##	1207	5.0623	0	5.0623	7
##	1208	-4.8888	0	4.8888	8
##	1209	-4.3355	0	4.3355	9
##	1210	4.2519	0	4.2519	10
##	1211	3.7613	0	3.7613	11
##	1212	3.2696	0	3.2696	12
##	1213	-3.2529	0	3.2529	13
##	1214	-2.7242	0	2.7242	14
##	1215	2.1048	0	2.1048	15
##	1216	-1.1285	0	1.1285	16
##	1217	0.9874	0	0.9874	17
##	1218	-0.9294	0	0.9294	18
##	1219	0.8953	0	0.8953	19
##	1220	0.0007	0	0.0007	20
##	1221	7.9578	0	7.9578	1
##	1222	-7.2442	0	7.2442	2
##	1223	7.2078	0	7.2078	3

##	1224	6.6740	0 6.6740	4
##	1225	-6.3456	0 6.3456	5
##	1226	-5.4745	0 5.4745	6
##	1227	-4.6770	0 4.6770	7
##	1228	-4.1505	0 4.1505	8
##	1229	4.0209	0 4.0209	9
##	1230	3.9200	0 3.9200	10
##	1231	3.2734	0 3.2734	11
##	1232	-3.0698	0 3.0698	12
##	1233	-2.7183	0 2.7183	13
##	1234	2.6058	0 2.6058	14
##	1235	2.4124	0 2.4124	15
##	1236	-1.5729	0 1.5729	16
##	1237	1.1583	0 1.1583	17
##	1238	-1.1396	0 1.1396	18
##	1239	0.3574	0 0.3574	19
##	1240	0.1375	0 0.1375	20
##	1241	-8.6433	0 8.6433	1
##	1242	8.0921	0 8.0921	2
##	1243	-6.7638	0 6.7638	3
##	1244	6.6321	0 6.6321	4
##	1245	5.4428	0 5.4428	5
##	1246	-5.2879	0 5.2879	6
##	1247	4.8569	0 4.8569	7
##	1248	4.7402	0 4.7402	8
##	1249	-4.7061	0 4.7061	9
##	1250	-4.2888	0 4.2888	10
##	1251	-3.5373	0 3.5373	11
##	1252	3.0212	0 3.0212	12
##	1253	2.8958	0 2.8958	13
##	1254	-2.6380	0 2.6380	14
##	1255	2.4608	0 2.4608	15
##	1256	-1.7537	0 1.7537	16
##	1257	1.6104	0 1.6104	17
##	1258	-1.1328	0 1.1328	18
##	1259	-0.4127	0 0.4127	19
##	1260	0.1179	0 0.1179	20
##	1261	-8.3893	0 8.3893	1
##	1262	7.7443	0 7.7443	2
##	1263	-7.3170	0 7.3170	3
##	1264	6.5040	0 6.5040	4
##	1265	-5.6730	0 5.6730	5
##	1266	5.5797	0 5.5797	6
##	1267	5.2045	0 5.2045	7
##	1268	-5.1827	0 5.1827	8
##	1269	-3.9816	0 3.9816	9
##	1270	3.7513	0 3.7513	10
##	1271	-3.7260	0 3.7260	11
##	1272	3.4414	0 3.4414	12
##	1273	3.0279	0 3.0279	13
##	1274	-2.8954	0 2.8954	14
##	1275	-2.5551	0 2.5551	15
##	1276	2.4853	0 2.4853	16
##	1277	1.6330	0 1.6330	17

##	1278	-0.9695	0	0.9695	18
##	1279	0.7539	0	0.7539	19
##	1280	0.3082	0	0.3082	20
##	1281	8.2582	0	8.2582	1
##	1282	-7.2228	0	7.2228	2
##	1283	6.9671	0	6.9671	3
##	1284	-6.8749	0	6.8749	4
##	1285	-6.0799	0	6.0799	5
##	1286	5.8202	0	5.8202	6
##	1287	5.6396	0	5.6396	7
##	1288	-4.9398	0	4.9398	8
##	1289	4.2539	0	4.2539	9
##	1290	3.5994	0	3.5994	10
##	1291	-3.4527	0	3.4527	11
##	1292	-3.0936	0	3.0936	12
##	1293	2.9136	0	2.9136	13
##	1294	2.5699	0	2.5699	14
##	1295	-2.0547	0	2.0547	15
##	1296	1.6289	0	1.6289	16
##	1297	1.0495	0	1.0495	17
##	1298	-1.0195	0	1.0195	18
##	1299	-0.8556	0	0.8556	19
##	1300	0.2066	0	0.2066	20
##	1301	8.0367	0	8.0367	1
##	1302	-7.1819	0	7.1819	2
##	1303	6.8219	0	6.8219	3
##	1304	-6.2659	0	6.2659	4
##	1305	5.2290	0	5.2290	5
##	1306	-5.1921	0	5.1921	6
##	1307	4.9519	0	4.9519	7
##	1308	-4.8672	0	4.8672	8
##	1309	-4.2292	0	4.2292	9
##	1310	4.0667	0	4.0667	10
##	1311	-3.1403	0	3.1403	11
##	1312	2.8094	0	2.8094	12
##	1313	2.7227	0	2.7227	13
##	1314	-2.4301	0	2.4301	14
##	1315	-1.9701	0	1.9701	15
##	1316	1.6655	0	1.6655	16
##	1317	1.1020	0	1.1020	17
##	1318	-0.9672	0	0.9672	18
##	1319	-0.4710	0	0.4710	19
##	1320	0.0971	0	0.0971	20
##	1321	-8.4970	0	8.4970	1
##	1322	8.1257	0	8.1257	2
##	1323	-7.1184	0	7.1184	3
##	1324	6.9291	0	6.9291	4
##	1325	-6.3779	0	6.3779	5
##	1326	-5.7538	0	5.7538	6
##	1327	5.5110	0	5.5110	7
##	1328	-5.2600	0	5.2600	8
##	1329	4.7659	0	4.7659	9
##	1330	-3.8183	0	3.8183	10
##	1331	3.6841	0	3.6841	11

##	1332	-3.3565	0	3.3565	12
##	1333	3.2228	0	3.2228	13
##	1334	3.0103	0	3.0103	14
##	1335	-2.2507	0	2.2507	15
##	1336	-2.1628	0	2.1628	16
##	1337	1.9156	0	1.9156	17
##	1338	1.0762	0	1.0762	18
##	1339	0.6009	0	0.6009	19
##	1340	-0.4579	0	0.4579	20
##	1341	-8.9636	0	8.9636	1
##	1342	7.1868	0	7.1868	2
##	1343	-7.1175	0	7.1175	3
##	1344	-6.2212	0	6.2212	4
##	1345	5.7037	0	5.7037	5
##	1346	5.5116	0	5.5116	6
##	1347	-5.2197	0	5.2197	7
##	1348	4.5052	0	4.5052	8
##	1349	-4.2057	0	4.2057	9
##	1350	4.0139	0	4.0139	10
##	1351	-3.4283	0	3.4283	11
##	1352	2.8624	0	2.8624	12
##	1353	-2.2317	0	2.2317	13
##	1354	1.8207	0	1.8207	14
##	1355	-1.5276	0	1.5276	15
##	1356	1.4769	0	1.4769	16
##	1357	-0.9859	0	0.9859	17
##	1358	0.8898	0	0.8898	18
##	1359	-0.8098	0	0.8098	19
##	1360	-0.2736	0	0.2736	20
##	1361	9.0892	0	9.0892	1
##	1362	-7.3810	0	7.3810	2
##	1363	6.9527	0	6.9527	3
##	1364	-6.4573	0	6.4573	4
##	1365	-5.2922	0	5.2922	5
##	1366	4.9473	0	4.9473	6
##	1367	-4.9333	0	4.9333	7
##	1368	4.7126	0	4.7126	8
##	1369	-4.5071	0	4.5071	9
##	1370	4.2655	0	4.2655	10
##	1371	3.6215	0	3.6215	11
##	1372	-2.9764	0	2.9764	12
##	1373	-2.3664	0	2.3664	13
##	1374	1.9211	0	1.9211	14
##	1375	-1.8049	0	1.8049	15
##	1376	-1.5022	0	1.5022	16
##	1377	1.4963	0	1.4963	17
##	1378	1.1944	0	1.1944	18
##	1379	-0.4832	0	0.4832	19
##	1380	-0.1455	0	0.1455	20
##	1381	7.5355	0	7.5355	1
##	1382	7.1448	0	7.1448	2
##	1383	-6.9708	0	6.9708	3
##	1384	6.2183	0	6.2183	4
##	1385	-6.0821	0	6.0821	5

##	1386	-5.4361	0	5.4361	6
##	1387	-5.0312	0	5.0312	7
##	1388	4.8803	0	4.8803	8
##	1389	3.7115	0	3.7115	9
##	1390	-3.6384	0	3.6384	10
##	1391	3.6076	0	3.6076	11
##	1392	-2.7747	0	2.7747	12
##	1393	-2.5002	0	2.5002	13
##	1394	2.3836	0	2.3836	14
##	1395	1.8989	0	1.8989	15
##	1396	1.4703	0	1.4703	16
##	1397	-1.2018	0	1.2018	17
##	1398	-0.5888	0	0.5888	18
##	1399	0.3433	0	0.3433	19
##	1400	0.1263	0	0.1263	20
##	1401	7.3084	0	7.3084	1
##	1402	-6.9293	0	6.9293	2
##	1403	6.2085	0	6.2085	3
##	1404	-5.9685	0	5.9685	4
##	1405	5.7346	0	5.7346	5
##	1406	-5.3244	0	5.3244	6
##	1407	4.5848	0	4.5848	7
##	1408	-4.1138	0	4.1138	8
##	1409	-3.6285	0	3.6285	9
##	1410	3.5919	0	3.5919	10
##	1411	2.9713	0	2.9713	11
##	1412	2.8336	0	2.8336	12
##	1413	-2.3829	0	2.3829	13
##	1414	-1.5623	0	1.5623	14
##	1415	1.4078	0	1.4078	15
##	1416	1.2276	0	1.2276	16
##	1417	-1.2156	0	1.2156	17
##	1418	-0.8022	0	0.8022	18
##	1419	0.3140	0	0.3140	19
##	1420	-0.0577	0	0.0577	20
##	1421	8.9176	0	8.9176	1
##	1422	-7.3753	0	7.3753	2
##	1423	7.2426	0	7.2426	3
##	1424	-6.8149	0	6.8149	4
##	1425	6.5936	0	6.5936	5
##	1426	6.2451	0	6.2451	6
##	1427	-5.8220	0	5.8220	7
##	1428	-5.2156	0	5.2156	8
##	1429	-4.6715	0	4.6715	9
##	1430	4.4573	0	4.4573	10
##	1431	-3.8310	0	3.8310	11
##	1432	-3.3370	0	3.3370	12
##	1433	3.2141	0	3.2141	13
##	1434	2.6580	0	2.6580	14
##	1435	-2.3154	0	2.3154	15
##	1436	1.7765	0	1.7765	16
##	1437	-1.1778	0	1.1778	17
##	1438	-0.9494	0	0.9494	18
##	1439	-0.3948	0	0.3948	19

##	1440	0.1249	0	0.1249	20
##	1441	-7.8048	0	7.8048	1
##	1442	7.2247	0	7.2247	2
##	1443	-6.3197	0	6.3197	3
##	1444	5.9657	0	5.9657	4
##	1445	-5.5330	0	5.5330	5
##	1446	5.4962	0	5.4962	6
##	1447	-4.8934	0	4.8934	7
##	1448	4.8872	0	4.8872	8
##	1449	4.0087	0	4.0087	9
##	1450	-3.8761	0	3.8761	10
##	1451	3.3500	0	3.3500	11
##	1452	-2.6370	0	2.6370	12
##	1453	-2.2857	0	2.2857	13
##	1454	-2.2195	0	2.2195	14
##	1455	-2.0691	0	2.0691	15
##	1456	1.7381	0	1.7381	16
##	1457	-0.9533	0	0.9533	17
##	1458	0.9385	0	0.9385	18
##	1459	0.6171	0	0.6171	19
##	1460	0.2056	0	0.2056	20
##	1461	-8.5972	0	8.5972	1
##	1462	8.3360	0	8.3360	2
##	1463	-8.0059	0	8.0059	3
##	1464	6.7357	0	6.7357	4
##	1465	-5.5450	0	5.5450	5
##	1466	5.2018	0	5.2018	6
##	1467	-5.0609	0	5.0609	7
##	1468	4.4787	0	4.4787	8
##	1469	4.1292	0	4.1292	9
##	1470	-3.8990	0	3.8990	10
##	1471	3.4364	0	3.4364	11
##	1472	-3.0894	0	3.0894	12
##	1473	-2.6465	0	2.6465	13
##	1474	2.3391	0	2.3391	14
##	1475	-1.7395	0	1.7395	15
##	1476	1.5661	0	1.5661	16
##	1477	-1.1694	0	1.1694	17
##	1478	-0.5592	0	0.5592	18
##	1479	0.5092	0	0.5092	19
##	1480	0.3787	0	0.3787	20
##	1481	8.6190	0	8.6190	1
##	1482	-7.7679	0	7.7679	2
##	1483	-7.7318	0	7.7318	3
##	1484	5.8524	0	5.8524	4
##	1485	-5.4949	0	5.4949	5
##	1486	5.2842	0	5.2842	6
##	1487	-5.1355	0	5.1355	7
##	1488	4.5164	0	4.5164	8
##	1489	-4.4944	0	4.4944	9
##	1490	-3.5705	0	3.5705	10
##	1491	3.1794	0	3.1794	11
##	1492	-2.8094	0	2.8094	12
##	1493	2.6649	0	2.6649	13

##	1494	-2.4877	0	2.4877	14
##	1495	1.8952	0	1.8952	15
##	1496	1.3008	0	1.3008	16
##	1497	1.0762	0	1.0762	17
##	1498	0.6166	0	0.6166	18
##	1499	-0.5276	0	0.5276	19
##	1500	-0.3185	0	0.3185	20
##	1501	8.5723	0	8.5723	1
##	1502	-7.4588	0	7.4588	2
##	1503	6.8199	0	6.8199	3
##	1504	-6.3525	0	6.3525	4
##	1505	6.1095	0	6.1095	5
##	1506	-5.9452	0	5.9452	6
##	1507	-5.3849	0	5.3849	7
##	1508	5.3297	0	5.3297	8
##	1509	-4.4658	0	4.4658	9
##	1510	4.0954	0	4.0954	10
##	1511	-3.9252	0	3.9252	11
##	1512	2.7900	0	2.7900	12
##	1513	-2.2416	0	2.2416	13
##	1514	-2.0134	0	2.0134	14
##	1515	1.9013	0	1.9013	15
##	1516	1.3218	0	1.3218	16
##	1517	1.2077	0	1.2077	17
##	1518	-0.6468	0	0.6468	18
##	1519	-0.3184	0	0.3184	19
##	1520	-0.1960	0	0.1960	20
##	1521	-7.4231	0	7.4231	1
##	1522	7.0609	0	7.0609	2
##	1523	6.7075	0	6.7075	3
##	1524	-6.3588	0	6.3588	4
##	1525	-6.0743	0	6.0743	5
##	1526	5.4529	0	5.4529	6
##	1527	-4.7277	0	4.7277	7
##	1528	4.4458	0	4.4458	8
##	1529	-3.9314	0	3.9314	9
##	1530	3.8859	0	3.8859	10
##	1531	3.5455	0	3.5455	11
##	1532	-3.2106	0	3.2106	12
##	1533	-2.9396	0	2.9396	13
##	1534	2.8225	0	2.8225	14
##	1535	-2.7065	0	2.7065	15
##	1536	2.0689	0	2.0689	16
##	1537	-1.8743	0	1.8743	17
##	1538	0.9363	0	0.9363	18
##	1539	-0.3972	0	0.3972	19
##	1540	0.3532	0	0.3532	20
##	1541	8.5727	0	8.5727	1
##	1542	-8.4892	0	8.4892	2
##	1543	6.9898	0	6.9898	3
##	1544	-6.3807	0	6.3807	4
##	1545	5.6134	0	5.6134	5
##	1546	-5.2083	0	5.2083	6
##	1547	5.1002	0	5.1002	7

## 1548	4.2243	0	4.2243	8
## 1549	-4.1990	0	4.1990	9
## 1550	-3.6596	0	3.6596	10
## 1551	3.3113	0	3.3113	11
## 1552	-2.9162	0	2.9162	12
## 1553	2.4491	0	2.4491	13
## 1554	-2.0874	0	2.0874	14
## 1555	1.7054	0	1.7054	15
## 1556	1.4347	0	1.4347	16
## 1557	-1.1760	0	1.1760	17
## 1558	0.8151	0	0.8151	18
## 1559	0.5481	0	0.5481	19
## 1560	0.3604	0	0.3604	20
## 1561	7.4825	0	7.4825	1
## 1562	-7.2999	0	7.2999	2
## 1563	6.9347	0	6.9347	3
## 1564	-6.2900	0	6.2900	4
## 1565	-5.8646	0	5.8646	5
## 1566	5.6386	0	5.6386	6
## 1567	-5.2418	0	5.2418	7
## 1568	4.6607	0	4.6607	8
## 1569	-4.1290	0	4.1290	9
## 1570	-3.6891	0	3.6891	10
## 1571	3.4091	0	3.4091	11
## 1572	3.2061	0	3.2061	12
## 1573	-2.5904	0	2.5904	13
## 1574	2.5706	0	2.5706	14
## 1575	-1.5863	0	1.5863	15
## 1576	1.4657	0	1.4657	16
## 1577	-1.1784	0	1.1784	17
## 1578	0.8146	0	0.8146	18
## 1579	-0.4995	0	0.4995	19
## 1580	0.2772	0	0.2772	20
## 1581	-7.3444	0	7.3444	1
## 1582	7.0639	0	7.0639	2
## 1583	-6.6916	0	6.6916	3
## 1584	-6.1939	0	6.1939	4
## 1585	5.8162	0	5.8162	5
## 1586	-5.8144	0	5.8144	6
## 1587	5.6589	0	5.6589	7
## 1588	-5.4896	0	5.4896	8
## 1589	-4.8162	0	4.8162	9
## 1590	4.1352	0	4.1352	10
## 1591	3.9397	0	3.9397	11
## 1592	3.2203	0	3.2203	12
## 1593	-2.5801	0	2.5801	13
## 1594	2.3078	0	2.3078	14
## 1595	2.0206	0	2.0206	15
## 1596	1.5689	0	1.5689	16
## 1597	-1.2928	0	1.2928	17
## 1598	-0.8328	0	0.8328	18
## 1599	-0.5664	0	0.5664	19
## 1600	-0.2317	0	0.2317	20
## 1601	-7.6527	0	7.6527	1

## 1602	7.4257	0	7.4257	2
## 1603	-6.9066	0	6.9066	3
## 1604	-6.2228	0	6.2228	4
## 1605	6.1579	0	6.1579	5
## 1606	5.5309	0	5.5309	6
## 1607	-5.3798	0	5.3798	7
## 1608	4.9571	0	4.9571	8
## 1609	-4.4623	0	4.4623	9
## 1610	4.2184	0	4.2184	10
## 1611	-3.3756	0	3.3756	11
## 1612	3.2989	0	3.2989	12
## 1613	2.8559	0	2.8559	13
## 1614	-2.5986	0	2.5986	14
## 1615	1.2833	0	1.2833	15
## 1616	-1.2314	0	1.2314	16
## 1617	-1.0528	0	1.0528	17
## 1618	-0.7049	0	0.7049	18
## 1619	-0.3238	0	0.3238	19
## 1620	0.2411	0	0.2411	20
## 1621	8.5532	0	8.5532	1
## 1622	-6.6845	0	6.6845	2
## 1623	-6.6422	0	6.6422	3
## 1624	6.4746	0	6.4746	4
## 1625	5.8078	0	5.8078	5
## 1626	-5.6092	0	5.6092	6
## 1627	5.3198	0	5.3198	7
## 1628	-4.3427	0	4.3427	8
## 1629	3.9356	0	3.9356	9
## 1630	-3.9053	0	3.9053	10
## 1631	3.5420	0	3.5420	11
## 1632	-3.0941	0	3.0941	12
## 1633	2.8340	0	2.8340	13
## 1634	-2.1903	0	2.1903	14
## 1635	2.0224	0	2.0224	15
## 1636	-1.8693	0	1.8693	16
## 1637	1.3138	0	1.3138	17
## 1638	-1.1286	0	1.1286	18
## 1639	0.8280	0	0.8280	19
## 1640	-0.5798	0	0.5798	20
## 1641	-7.6771	0	7.6771	1
## 1642	7.1967	0	7.1967	2
## 1643	7.0877	0	7.0877	3
## 1644	-6.9394	0	6.9394	4
## 1645	-6.2461	0	6.2461	5
## 1646	6.0030	0	6.0030	6
## 1647	5.6576	0	5.6576	7
## 1648	-5.0087	0	5.0087	8
## 1649	-4.5805	0	4.5805	9
## 1650	3.3745	0	3.3745	10
## 1651	-3.2362	0	3.2362	11
## 1652	2.9797	0	2.9797	12
## 1653	2.7324	0	2.7324	13
## 1654	-2.3870	0	2.3870	14
## 1655	-1.8273	0	1.8273	15

##	1656	1.4567	0	1.4567	16
##	1657	1.1567	0	1.1567	17
##	1658	-1.0607	0	1.0607	18
##	1659	-0.3542	0	0.3542	19
##	1660	0.2828	0	0.2828	20
##	1661	-8.1794	0	8.1794	1
##	1662	8.0016	0	8.0016	2
##	1663	6.5501	0	6.5501	3
##	1664	-5.8532	0	5.8532	4
##	1665	5.7440	0	5.7440	5
##	1666	-5.4250	0	5.4250	6
##	1667	-4.8113	0	4.8113	7
##	1668	4.5689	0	4.5689	8
##	1669	4.3244	0	4.3244	9
##	1670	-3.6177	0	3.6177	10
##	1671	3.5612	0	3.5612	11
##	1672	-2.7390	0	2.7390	12
##	1673	2.4862	0	2.4862	13
##	1674	-2.1939	0	2.1939	14
##	1675	1.9099	0	1.9099	15
##	1676	-1.6372	0	1.6372	16
##	1677	1.1963	0	1.1963	17
##	1678	-1.1922	0	1.1922	18
##	1679	0.6006	0	0.6006	19
##	1680	0.0578	0	0.0578	20
##	1681	9.1478	0	9.1478	1
##	1682	-8.8599	0	8.8599	2
##	1683	8.0445	0	8.0445	3
##	1684	6.2542	0	6.2542	4
##	1685	-6.2064	0	6.2064	5
##	1686	-5.6573	0	5.6573	6
##	1687	5.3881	0	5.3881	7
##	1688	-5.2693	0	5.2693	8
##	1689	4.4853	0	4.4853	9
##	1690	-3.3274	0	3.3274	10
##	1691	-3.0728	0	3.0728	11
##	1692	-2.8494	0	2.8494	12
##	1693	2.7467	0	2.7467	13
##	1694	2.1207	0	2.1207	14
##	1695	-1.6080	0	1.6080	15
##	1696	1.4875	0	1.4875	16
##	1697	-0.9454	0	0.9454	17
##	1698	0.8251	0	0.8251	18
##	1699	0.3979	0	0.3979	19
##	1700	-0.3617	0	0.3617	20
##	1701	-8.0369	0	8.0369	1
##	1702	7.3577	0	7.3577	2
##	1703	6.6379	0	6.6379	3
##	1704	-5.9695	0	5.9695	4
##	1705	5.5977	0	5.5977	5
##	1706	-5.3937	0	5.3937	6
##	1707	-5.2014	0	5.2014	7
##	1708	4.9722	0	4.9722	8
##	1709	4.0925	0	4.0925	9

##	1710	-3.7741	0	3.7741	10
##	1711	3.5683	0	3.5683	11
##	1712	-3.5188	0	3.5188	12
##	1713	3.2120	0	3.2120	13
##	1714	2.2257	0	2.2257	14
##	1715	-2.0935	0	2.0935	15
##	1716	-1.2698	0	1.2698	16
##	1717	1.1335	0	1.1335	17
##	1718	-0.9189	0	0.9189	18
##	1719	0.7017	0	0.7017	19
##	1720	-0.0278	0	0.0278	20
##	1721	8.0631	0	8.0631	1
##	1722	-6.6412	0	6.6412	2
##	1723	-5.8993	0	5.8993	3
##	1724	5.8600	0	5.8600	4
##	1725	5.7963	0	5.7963	5
##	1726	-5.6993	0	5.6993	6
##	1727	4.3441	0	4.3441	7
##	1728	4.2576	0	4.2576	8
##	1729	-4.1821	0	4.1821	9
##	1730	-3.2256	0	3.2256	10
##	1731	2.9630	0	2.9630	11
##	1732	2.7221	0	2.7221	12
##	1733	-2.6401	0	2.6401	13
##	1734	-1.8768	0	1.8768	14
##	1735	1.8017	0	1.8017	15
##	1736	1.3846	0	1.3846	16
##	1737	-1.1733	0	1.1733	17
##	1738	-0.6255	0	0.6255	18
##	1739	0.3982	0	0.3982	19
##	1740	-0.2886	0	0.2886	20
##	1741	8.3342	0	8.3342	1
##	1742	-7.7723	0	7.7723	2
##	1743	6.0335	0	6.0335	3
##	1744	-5.8796	0	5.8796	4
##	1745	5.8573	0	5.8573	5
##	1746	-5.2061	0	5.2061	6
##	1747	5.0435	0	5.0435	7
##	1748	-4.4933	0	4.4933	8
##	1749	-4.0488	0	4.0488	9
##	1750	3.2252	0	3.2252	10
##	1751	-3.0467	0	3.0467	11
##	1752	2.7267	0	2.7267	12
##	1753	2.4737	0	2.4737	13
##	1754	-2.0521	0	2.0521	14
##	1755	2.0471	0	2.0471	15
##	1756	-1.7549	0	1.7549	16
##	1757	-1.3789	0	1.3789	17
##	1758	-0.9971	0	0.9971	18
##	1759	0.9868	0	0.9868	19
##	1760	0.1407	0	0.1407	20
##	1761	-7.6755	0	7.6755	1
##	1762	7.4772	0	7.4772	2
##	1763	-6.2286	0	6.2286	3

## 1764	5.8286	0	5.8286	4
## 1765	5.1184	0	5.1184	5
## 1766	-5.1101	0	5.1101	6
## 1767	4.6020	0	4.6020	7
## 1768	-4.5965	0	4.5965	8
## 1769	-3.8808	0	3.8808	9
## 1770	3.8176	0	3.8176	10
## 1771	3.1216	0	3.1216	11
## 1772	-2.9079	0	2.9079	12
## 1773	2.0857	0	2.0857	13
## 1774	-1.9834	0	1.9834	14
## 1775	-1.5351	0	1.5351	15
## 1776	1.3793	0	1.3793	16
## 1777	-1.3021	0	1.3021	17
## 1778	0.6044	0	0.6044	18
## 1779	-0.5006	0	0.5006	19
## 1780	0.3670	0	0.3670	20
## 1781	8.3429	0	8.3429	1
## 1782	-8.1851	0	8.1851	2
## 1783	-6.7549	0	6.7549	3
## 1784	6.4111	0	6.4111	4
## 1785	-6.3026	0	6.3026	5
## 1786	6.2646	0	6.2646	6
## 1787	-5.6452	0	5.6452	7
## 1788	5.4662	0	5.4662	8
## 1789	-4.8395	0	4.8395	9
## 1790	3.7174	0	3.7174	10
## 1791	-3.1521	0	3.1521	11
## 1792	-2.3508	0	2.3508	12
## 1793	2.3193	0	2.3193	13
## 1794	-1.7397	0	1.7397	14
## 1795	1.7340	0	1.7340	15
## 1796	1.4589	0	1.4589	16
## 1797	1.1259	0	1.1259	17
## 1798	-0.9130	0	0.9130	18
## 1799	0.6755	0	0.6755	19
## 1800	-0.4886	0	0.4886	20
## 1801	-8.2945	0	8.2945	1
## 1802	-7.1079	0	7.1079	2
## 1803	6.5979	0	6.5979	3
## 1804	5.1380	0	5.1380	4
## 1805	4.7268	0	4.7268	5
## 1806	-4.3005	0	4.3005	6
## 1807	4.0603	0	4.0603	7
## 1808	-3.9521	0	3.9521	8
## 1809	3.5912	0	3.5912	9
## 1810	3.3180	0	3.3180	10
## 1811	-3.0255	0	3.0255	11
## 1812	2.6000	0	2.6000	12
## 1813	-2.3937	0	2.3937	13
## 1814	1.9936	0	1.9936	14
## 1815	1.7589	0	1.7589	15
## 1816	-1.4306	0	1.4306	16
## 1817	1.2788	0	1.2788	17

## 1818	-0.7046	0	0.7046	18
## 1819	0.2850	0	0.2850	19
## 1820	0.1550	0	0.1550	20
## 1821	-7.1723	0	7.1723	1
## 1822	-6.7309	0	6.7309	2
## 1823	6.4207	0	6.4207	3
## 1824	-5.9287	0	5.9287	4
## 1825	5.1727	0	5.1727	5
## 1826	5.0543	0	5.0543	6
## 1827	-4.8081	0	4.8081	7
## 1828	-4.5975	0	4.5975	8
## 1829	4.5062	0	4.5062	9
## 1830	3.7219	0	3.7219	10
## 1831	-3.2389	0	3.2389	11
## 1832	3.0885	0	3.0885	12
## 1833	2.5162	0	2.5162	13
## 1834	-2.4863	0	2.4863	14
## 1835	-1.8455	0	1.8455	15
## 1836	1.5854	0	1.5854	16
## 1837	-1.1600	0	1.1600	17
## 1838	1.1520	0	1.1520	18
## 1839	-0.5878	0	0.5878	19
## 1840	-0.2368	0	0.2368	20
## 1841	-7.9221	0	7.9221	1
## 1842	6.7004	0	6.7004	2
## 1843	-6.3404	0	6.3404	3
## 1844	5.6817	0	5.6817	4
## 1845	-5.5363	0	5.5363	5
## 1846	-4.7993	0	4.7993	6
## 1847	4.7254	0	4.7254	7
## 1848	-4.4982	0	4.4982	8
## 1849	4.3201	0	4.3201	9
## 1850	-3.5600	0	3.5600	10
## 1851	3.4706	0	3.4706	11
## 1852	3.2366	0	3.2366	12
## 1853	-2.6000	0	2.6000	13
## 1854	2.5196	0	2.5196	14
## 1855	2.0444	0	2.0444	15
## 1856	-1.5369	0	1.5369	16
## 1857	-1.1733	0	1.1733	17
## 1858	1.0171	0	1.0171	18
## 1859	0.2246	0	0.2246	19
## 1860	0.0658	0	0.0658	20
## 1861	8.1106	0	8.1106	1
## 1862	-7.6597	0	7.6597	2
## 1863	-7.1530	0	7.1530	3
## 1864	6.7621	0	6.7621	4
## 1865	-6.1870	0	6.1870	5
## 1866	5.6460	0	5.6460	6
## 1867	4.8695	0	4.8695	7
## 1868	-4.8549	0	4.8549	8
## 1869	-3.8099	0	3.8099	9
## 1870	3.5363	0	3.5363	10
## 1871	2.9579	0	2.9579	11

## 1872	2.5381	0	2.5381	12
## 1873	-2.3966	0	2.3966	13
## 1874	-2.1888	0	2.1888	14
## 1875	1.9662	0	1.9662	15
## 1876	1.7578	0	1.7578	16
## 1877	-1.4554	0	1.4554	17
## 1878	0.8666	0	0.8666	18
## 1879	0.6532	0	0.6532	19
## 1880	-0.4169	0	0.4169	20
## 1881	-8.8371	0	8.8371	1
## 1882	7.3641	0	7.3641	2
## 1883	-7.0400	0	7.0400	3
## 1884	-6.5607	0	6.5607	4
## 1885	6.4728	0	6.4728	5
## 1886	-5.0869	0	5.0869	6
## 1887	4.7413	0	4.7413	7
## 1888	4.4209	0	4.4209	8
## 1889	-4.3447	0	4.3447	9
## 1890	3.9638	0	3.9638	10
## 1891	3.7355	0	3.7355	11
## 1892	3.2777	0	3.2777	12
## 1893	-2.9320	0	2.9320	13
## 1894	2.5426	0	2.5426	14
## 1895	-1.6608	0	1.6608	15
## 1896	-1.5002	0	1.5002	16
## 1897	1.2829	0	1.2829	17
## 1898	-0.7895	0	0.7895	18
## 1899	-0.5335	0	0.5335	19
## 1900	0.3502	0	0.3502	20
## 1901	8.5969	0	8.5969	1
## 1902	-7.5465	0	7.5465	2
## 1903	-7.2118	0	7.2118	3
## 1904	-6.5381	0	6.5381	4
## 1905	6.4009	0	6.4009	5
## 1906	6.0871	0	6.0871	6
## 1907	-5.1908	0	5.1908	7
## 1908	-4.7475	0	4.7475	8
## 1909	4.6483	0	4.6483	9
## 1910	4.0670	0	4.0670	10
## 1911	-3.3750	0	3.3750	11
## 1912	2.5262	0	2.5262	12
## 1913	-2.0730	0	2.0730	13
## 1914	2.0534	0	2.0534	14
## 1915	-1.9405	0	1.9405	15
## 1916	1.7210	0	1.7210	16
## 1917	1.5673	0	1.5673	17
## 1918	-1.0299	0	1.0299	18
## 1919	-0.6441	0	0.6441	19
## 1920	-0.1140	0	0.1140	20
## 1921	-7.7373	0	7.7373	1
## 1922	7.4348	0	7.4348	2
## 1923	-6.6363	0	6.6363	3
## 1924	6.0829	0	6.0829	4
## 1925	-5.6622	0	5.6622	5

##	1926	5.1726	0	5.1726	6
##	1927	-4.9887	0	4.9887	7
##	1928	3.8835	0	3.8835	8
##	1929	-3.8232	0	3.8232	9
##	1930	3.6958	0	3.6958	10
##	1931	-3.6916	0	3.6916	11
##	1932	3.1495	0	3.1495	12
##	1933	-2.7514	0	2.7514	13
##	1934	-2.5427	0	2.5427	14
##	1935	2.3593	0	2.3593	15
##	1936	-1.8833	0	1.8833	16
##	1937	1.0604	0	1.0604	17
##	1938	-1.0053	0	1.0053	18
##	1939	0.7425	0	0.7425	19
##	1940	0.0802	0	0.0802	20
##	1941	-7.2573	0	7.2573	1
##	1942	7.2503	0	7.2503	2
##	1943	6.8275	0	6.8275	3
##	1944	-6.8067	0	6.8067	4
##	1945	-6.3291	0	6.3291	5
##	1946	-5.4352	0	5.4352	6
##	1947	5.1521	0	5.1521	7
##	1948	4.4244	0	4.4244	8
##	1949	-4.1806	0	4.1806	9
##	1950	4.1088	0	4.1088	10
##	1951	3.5756	0	3.5756	11
##	1952	3.0132	0	3.0132	12
##	1953	-2.7592	0	2.7592	13
##	1954	-2.0010	0	2.0010	14
##	1955	-1.6268	0	1.6268	15
##	1956	1.3351	0	1.3351	16
##	1957	1.2192	0	1.2192	17
##	1958	-0.8457	0	0.8457	18
##	1959	0.7831	0	0.7831	19
##	1960	0.3091	0	0.3091	20
##	1961	-8.6525	0	8.6525	1
##	1962	7.8912	0	7.8912	2
##	1963	7.6037	0	7.6037	3
##	1964	6.2764	0	6.2764	4
##	1965	-6.1020	0	6.1020	5
##	1966	4.6036	0	4.6036	6
##	1967	-4.5090	0	4.5090	7
##	1968	4.0229	0	4.0229	8
##	1969	-3.5714	0	3.5714	9
##	1970	-3.4026	0	3.4026	10
##	1971	-3.2387	0	3.2387	11
##	1972	2.7951	0	2.7951	12
##	1973	2.2694	0	2.2694	13
##	1974	2.2101	0	2.2101	14
##	1975	-1.7230	0	1.7230	15
##	1976	-1.4474	0	1.4474	16
##	1977	1.1504	0	1.1504	17
##	1978	-0.2665	0	0.2665	18
##	1979	0.2028	0	0.2028	19

```
## 1980 -0.1745  0 0.1745    20
## 1981  8.3352  0 8.3352     1
## 1982 -8.2608  0 8.2608     2
## 1983 -7.3927  0 7.3927     3
## 1984 -6.7884  0 6.7884     4
## 1985  6.1375  0 6.1375     5
## 1986 -5.5951  0 5.5951     6
## 1987  5.5575  0 5.5575     7
## 1988  4.5531  0 4.5531     8
## 1989  4.3928  0 4.3928     9
## 1990 -4.3097  0 4.3097    10
## 1991  3.3536  0 3.3536    11
## 1992  3.2100  0 3.2100    12
## 1993 -3.1422  0 3.1422    13
## 1994 -2.4998  0 2.4998    14
## 1995 -2.0213  0 2.0213    15
## 1996  1.6016  0 1.6016    16
## 1997  1.3269  0 1.3269    17
## 1998 -1.0836  0 1.0836    18
## 1999  0.6986  0 0.6986    19
## 2000 -0.0896  0 0.0896    20
```

```
disp_ens <- dispersion(norm_ens)
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
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```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
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```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
```


[illegible]


```
mean(disp_ens$id_diff)
```

```
## [1] -0.007810684
```

```
# Find the eigenvalue dispersions for a given matrix
```

```
.dispersion_matrix2 <- function(P, pairs, sort_norms, norm_pow, digits = 4){  
  eigenvalues <- spectrum(P, sort_norms = sort_norms) # Get the sorted eigenvalues of the matrix  
  norm_fn <- function(x){(abs(x))^norm_pow} # Generate norm function to pass along as argument (Euclidean)  
  disp <- purrr::map2_dfr(pairs[,1], pairs[,2], .resolve_dispersion, eigenvalues, norm_fn, digits) # Eigenvalue dispersions  
  disp$normalized <- disp$id_diff / mean(disp$id_diff)  
  disp  
}
```

```
dispersion2 <- function(array, pairs = NA, sort_norms = T, norm_pow = 1){ #sortNorms? orderByNorms? pairs?  
  digits <- 4 # Digits to round values to  
  pairs <- .parsePairs(pairs, array) # Parse input and generate pair scheme (default NA), passing on array  
  # Array is a matrix; call function returning dispersion for singleton matrix  
  if(class(array) == "matrix"){.dispersion_matrix2(array, pairs, sort_norms, norm_pow, digits)}  
  # Array is an ensemble; recursively row binding each matrix's dispersions  
  else if(class(array) == "list"){furrr::future_map_dfr(array, .dispersion_matrix2, pairs, sort_norms, norm_pow, digits)}  
}
```

```
#disp <- norm_ens %>% dispersion2(pairs = "consecutive")
```

```
#disp %>% dispersion.histogram("normalized", bins = 75)
```

```
# Currently impleteneted with real eigenvalues in mind (symmetric real matrices)
```

```
normalized_dispersion <- function(array){  
  disp <- array %>% dispersion2(pairs = "consecutive")  
  disp %>% dispersion.histogram("normalized", bins = 75)  
}
```

```
t0 <- Sys.time()
```

```
RME_beta(N = 100, beta = 2, size = 100) %>% spectrum_parallel()
```

```
##           Re Im      Norm Order  
## 1      19.2700 0 19.2700      1  
## 2     -19.1009 0 19.1009      2  
## 3     -18.3580 0 18.3580      3  
## 4      18.3003 0 18.3003      4  
## 5     -17.8273 0 17.8273      5  
## 6      17.8098 0 17.8098      6  
## 7      17.1494 0 17.1494      7  
## 8     -16.9737 0 16.9737      8  
## 9     -16.4953 0 16.4953      9  
## 10     16.4517 0 16.4517     10  
## 11     15.8994 0 15.8994     11  
## 12    -15.7470 0 15.7470     12  
## 13     15.2966 0 15.2966     13  
## 14    -15.2373 0 15.2373     14  
## 15    -15.0439 0 15.0439     15  
## 16     14.9647 0 14.9647     16  
## 17     14.2896 0 14.2896     17  
## 18    -14.1835 0 14.1835     18  
## 19     13.8003 0 13.8003     19  
## 20    -13.7621 0 13.7621     20
```

## 21	13.6466	0	13.6466	21
## 22	-13.4031	0	13.4031	22
## 23	-13.2796	0	13.2796	23
## 24	13.0070	0	13.0070	24
## 25	12.6786	0	12.6786	25
## 26	-12.5559	0	12.5559	26
## 27	12.4063	0	12.4063	27
## 28	-12.0790	0	12.0790	28
## 29	11.7081	0	11.7081	29
## 30	-11.5646	0	11.5646	30
## 31	11.4590	0	11.4590	31
## 32	-11.3504	0	11.3504	32
## 33	11.0443	0	11.0443	33
## 34	-10.9984	0	10.9984	34
## 35	10.8833	0	10.8833	35
## 36	-10.5069	0	10.5069	36
## 37	10.3604	0	10.3604	37
## 38	10.1375	0	10.1375	38
## 39	-10.0956	0	10.0956	39
## 40	-9.8201	0	9.8201	40
## 41	-9.5135	0	9.5135	41
## 42	9.4433	0	9.4433	42
## 43	9.2421	0	9.2421	43
## 44	-8.9379	0	8.9379	44
## 45	8.8046	0	8.8046	45
## 46	-8.5975	0	8.5975	46
## 47	-8.4241	0	8.4241	47
## 48	8.4208	0	8.4208	48
## 49	8.1792	0	8.1792	49
## 50	-8.1691	0	8.1691	50
## 51	8.0082	0	8.0082	51
## 52	-7.8182	0	7.8182	52
## 53	7.6812	0	7.6812	53
## 54	-7.3805	0	7.3805	54
## 55	-7.2891	0	7.2891	55
## 56	6.9670	0	6.9670	56
## 57	-6.7852	0	6.7852	57
## 58	6.7409	0	6.7409	58
## 59	-6.5903	0	6.5903	59
## 60	-6.3576	0	6.3576	60
## 61	6.3178	0	6.3178	61
## 62	6.1391	0	6.1391	62
## 63	-5.9371	0	5.9371	63
## 64	5.8231	0	5.8231	64
## 65	5.5220	0	5.5220	65
## 66	-5.4773	0	5.4773	66
## 67	5.0924	0	5.0924	67
## 68	-5.0617	0	5.0617	68
## 69	-4.7936	0	4.7936	69
## 70	4.6548	0	4.6548	70
## 71	-4.5577	0	4.5577	71
## 72	4.4665	0	4.4665	72
## 73	4.3521	0	4.3521	73
## 74	-4.3340	0	4.3340	74

## 75	3.9877	0	3.9877	75
## 76	-3.9545	0	3.9545	76
## 77	3.7451	0	3.7451	77
## 78	3.6849	0	3.6849	78
## 79	-3.5514	0	3.5514	79
## 80	-3.3254	0	3.3254	80
## 81	-3.1716	0	3.1716	81
## 82	2.8727	0	2.8727	82
## 83	-2.6269	0	2.6269	83
## 84	2.5096	0	2.5096	84
## 85	2.3194	0	2.3194	85
## 86	2.2220	0	2.2220	86
## 87	-2.1638	0	2.1638	87
## 88	-1.9238	0	1.9238	88
## 89	-1.8367	0	1.8367	89
## 90	1.5857	0	1.5857	90
## 91	1.4749	0	1.4749	91
## 92	-1.3880	0	1.3880	92
## 93	1.2200	0	1.2200	93
## 94	-1.1033	0	1.1033	94
## 95	-0.8809	0	0.8809	95
## 96	0.7191	0	0.7191	96
## 97	-0.5617	0	0.5617	97
## 98	0.4843	0	0.4843	98
## 99	-0.2843	0	0.2843	99
## 100	0.1935	0	0.1935	100
## 101	19.4013	0	19.4013	1
## 102	-19.0956	0	19.0956	2
## 103	-18.6609	0	18.6609	3
## 104	18.4401	0	18.4401	4
## 105	17.8701	0	17.8701	5
## 106	-17.6903	0	17.6903	6
## 107	17.1912	0	17.1912	7
## 108	-17.0185	0	17.0185	8
## 109	16.4090	0	16.4090	9
## 110	-16.2439	0	16.2439	10
## 111	15.6417	0	15.6417	11
## 112	-15.5083	0	15.5083	12
## 113	-15.2984	0	15.2984	13
## 114	14.9193	0	14.9193	14
## 115	-14.6888	0	14.6888	15
## 116	14.6234	0	14.6234	16
## 117	-14.3412	0	14.3412	17
## 118	14.2762	0	14.2762	18
## 119	14.0729	0	14.0729	19
## 120	-13.9116	0	13.9116	20
## 121	13.6674	0	13.6674	21
## 122	-13.6160	0	13.6160	22
## 123	13.4707	0	13.4707	23
## 124	13.1865	0	13.1865	24
## 125	-13.0777	0	13.0777	25
## 126	-12.6944	0	12.6944	26
## 127	12.6790	0	12.6790	27
## 128	12.4198	0	12.4198	28

## 129	-12.1629	0	12.1629	29
## 130	-11.8046	0	11.8046	30
## 131	11.6936	0	11.6936	31
## 132	-11.3611	0	11.3611	32
## 133	11.1574	0	11.1574	33
## 134	-10.8947	0	10.8947	34
## 135	10.8874	0	10.8874	35
## 136	-10.5638	0	10.5638	36
## 137	10.4168	0	10.4168	37
## 138	-10.3770	0	10.3770	38
## 139	-10.1413	0	10.1413	39
## 140	-9.8153	0	9.8153	40
## 141	9.6752	0	9.6752	41
## 142	-9.6176	0	9.6176	42
## 143	9.3949	0	9.3949	43
## 144	9.1445	0	9.1445	44
## 145	8.9708	0	8.9708	45
## 146	-8.9649	0	8.9649	46
## 147	-8.7203	0	8.7203	47
## 148	8.5496	0	8.5496	48
## 149	-8.3283	0	8.3283	49
## 150	8.2466	0	8.2466	50
## 151	7.9978	0	7.9978	51
## 152	-7.8314	0	7.8314	52
## 153	-7.6904	0	7.6904	53
## 154	7.5865	0	7.5865	54
## 155	-7.2737	0	7.2737	55
## 156	7.0869	0	7.0869	56
## 157	-6.9307	0	6.9307	57
## 158	6.7542	0	6.7542	58
## 159	-6.5901	0	6.5901	59
## 160	6.4687	0	6.4687	60
## 161	6.0854	0	6.0854	61
## 162	-6.0047	0	6.0047	62
## 163	-5.7754	0	5.7754	63
## 164	5.7350	0	5.7350	64
## 165	-5.5715	0	5.5715	65
## 166	5.5714	0	5.5714	66
## 167	5.2059	0	5.2059	67
## 168	-4.9384	0	4.9384	68
## 169	4.8132	0	4.8132	69
## 170	-4.7914	0	4.7914	70
## 171	4.4525	0	4.4525	71
## 172	-4.3632	0	4.3632	72
## 173	-4.1893	0	4.1893	73
## 174	4.0532	0	4.0532	74
## 175	-3.9545	0	3.9545	75
## 176	3.6832	0	3.6832	76
## 177	-3.5922	0	3.5922	77
## 178	-3.4139	0	3.4139	78
## 179	3.3173	0	3.3173	79
## 180	3.2320	0	3.2320	80
## 181	3.0615	0	3.0615	81
## 182	-2.7818	0	2.7818	82

## 183	2.7436	0	2.7436	83
## 184	-2.5860	0	2.5860	84
## 185	-2.3755	0	2.3755	85
## 186	2.3558	0	2.3558	86
## 187	-2.0766	0	2.0766	87
## 188	1.9079	0	1.9079	88
## 189	-1.8025	0	1.8025	89
## 190	1.6255	0	1.6255	90
## 191	1.5785	0	1.5785	91
## 192	-1.3675	0	1.3675	92
## 193	-1.2903	0	1.2903	93
## 194	1.1538	0	1.1538	94
## 195	-0.9367	0	0.9367	95
## 196	0.7014	0	0.7014	96
## 197	-0.5186	0	0.5186	97
## 198	0.4038	0	0.4038	98
## 199	0.2308	0	0.2308	99
## 200	-0.1968	0	0.1968	100
## 201	20.1955	0	20.1955	1
## 202	-19.8789	0	19.8789	2
## 203	-19.3388	0	19.3388	3
## 204	18.9276	0	18.9276	4
## 205	18.1459	0	18.1459	5
## 206	-17.5918	0	17.5918	6
## 207	17.1648	0	17.1648	7
## 208	-17.0728	0	17.0728	8
## 209	16.5995	0	16.5995	9
## 210	-16.3352	0	16.3352	10
## 211	-16.2553	0	16.2553	11
## 212	16.1713	0	16.1713	12
## 213	-15.7888	0	15.7888	13
## 214	15.7093	0	15.7093	14
## 215	-15.1270	0	15.1270	15
## 216	15.0398	0	15.0398	16
## 217	14.7474	0	14.7474	17
## 218	-14.5293	0	14.5293	18
## 219	14.4711	0	14.4711	19
## 220	-14.3215	0	14.3215	20
## 221	14.1017	0	14.1017	21
## 222	-13.6244	0	13.6244	22
## 223	13.5852	0	13.5852	23
## 224	-13.4768	0	13.4768	24
## 225	-13.0368	0	13.0368	25
## 226	13.0213	0	13.0213	26
## 227	-12.7774	0	12.7774	27
## 228	12.4981	0	12.4981	28
## 229	-12.2522	0	12.2522	29
## 230	-11.7458	0	11.7458	30
## 231	11.6492	0	11.6492	31
## 232	11.5263	0	11.5263	32
## 233	-11.4379	0	11.4379	33
## 234	-11.1939	0	11.1939	34
## 235	11.0443	0	11.0443	35
## 236	10.9159	0	10.9159	36

## 237	-10.6658	0	10.6658	37
## 238	-10.3532	0	10.3532	38
## 239	10.1324	0	10.1324	39
## 240	-10.1087	0	10.1087	40
## 241	9.8969	0	9.8969	41
## 242	-9.7637	0	9.7637	42
## 243	9.6811	0	9.6811	43
## 244	9.4448	0	9.4448	44
## 245	-9.2219	0	9.2219	45
## 246	-9.0054	0	9.0054	46
## 247	8.9925	0	8.9925	47
## 248	8.7241	0	8.7241	48
## 249	-8.6364	0	8.6364	49
## 250	-8.4221	0	8.4221	50
## 251	8.3341	0	8.3341	51
## 252	7.8637	0	7.8637	52
## 253	-7.7680	0	7.7680	53
## 254	7.7156	0	7.7156	54
## 255	-7.4305	0	7.4305	55
## 256	7.3484	0	7.3484	56
## 257	-7.3041	0	7.3041	57
## 258	7.1610	0	7.1610	58
## 259	-6.9613	0	6.9613	59
## 260	6.6761	0	6.6761	60
## 261	6.4678	0	6.4678	61
## 262	-6.4210	0	6.4210	62
## 263	6.3142	0	6.3142	63
## 264	-6.0746	0	6.0746	64
## 265	5.9226	0	5.9226	65
## 266	-5.5762	0	5.5762	66
## 267	-5.3868	0	5.3868	67
## 268	-5.3107	0	5.3107	68
## 269	5.1883	0	5.1883	69
## 270	5.0309	0	5.0309	70
## 271	4.7760	0	4.7760	71
## 272	-4.7503	0	4.7503	72
## 273	-4.4528	0	4.4528	73
## 274	4.4381	0	4.4381	74
## 275	-4.0549	0	4.0549	75
## 276	3.9399	0	3.9399	76
## 277	-3.6266	0	3.6266	77
## 278	3.5943	0	3.5943	78
## 279	3.4190	0	3.4190	79
## 280	-3.3254	0	3.3254	80
## 281	3.1628	0	3.1628	81
## 282	-3.0491	0	3.0491	82
## 283	2.8290	0	2.8290	83
## 284	-2.6427	0	2.6427	84
## 285	-2.4894	0	2.4894	85
## 286	2.2725	0	2.2725	86
## 287	-2.2690	0	2.2690	87
## 288	1.9255	0	1.9255	88
## 289	-1.8790	0	1.8790	89
## 290	1.7137	0	1.7137	90

## 291	-1.5770	0	1.5770	91
## 292	1.4381	0	1.4381	92
## 293	1.2979	0	1.2979	93
## 294	-1.2081	0	1.2081	94
## 295	-0.9129	0	0.9129	95
## 296	0.8606	0	0.8606	96
## 297	-0.7046	0	0.7046	97
## 298	-0.3829	0	0.3829	98
## 299	0.2853	0	0.2853	99
## 300	-0.0888	0	0.0888	100
## 301	19.7446	0	19.7446	1
## 302	-19.2883	0	19.2883	2
## 303	18.3558	0	18.3558	3
## 304	-18.2500	0	18.2500	4
## 305	18.0235	0	18.0235	5
## 306	-17.7324	0	17.7324	6
## 307	-17.3973	0	17.3973	7
## 308	17.3592	0	17.3592	8
## 309	17.1100	0	17.1100	9
## 310	-16.4791	0	16.4791	10
## 311	16.3494	0	16.3494	11
## 312	-16.2099	0	16.2099	12
## 313	15.9551	0	15.9551	13
## 314	-15.7504	0	15.7504	14
## 315	15.1090	0	15.1090	15
## 316	-14.9483	0	14.9483	16
## 317	-14.6905	0	14.6905	17
## 318	14.4195	0	14.4195	18
## 319	-14.2978	0	14.2978	19
## 320	14.2691	0	14.2691	20
## 321	-13.7643	0	13.7643	21
## 322	13.6236	0	13.6236	22
## 323	-13.3079	0	13.3079	23
## 324	12.9764	0	12.9764	24
## 325	-12.9400	0	12.9400	25
## 326	12.7996	0	12.7996	26
## 327	-12.5993	0	12.5993	27
## 328	-12.2668	0	12.2668	28
## 329	12.2448	0	12.2448	29
## 330	-11.9809	0	11.9809	30
## 331	11.8806	0	11.8806	31
## 332	11.5692	0	11.5692	32
## 333	-11.4176	0	11.4176	33
## 334	11.2577	0	11.2577	34
## 335	-10.8816	0	10.8816	35
## 336	10.8418	0	10.8418	36
## 337	-10.6483	0	10.6483	37
## 338	-10.4835	0	10.4835	38
## 339	10.3942	0	10.3942	39
## 340	-10.0321	0	10.0321	40
## 341	9.9962	0	9.9962	41
## 342	9.5888	0	9.5888	42
## 343	-9.5710	0	9.5710	43
## 344	9.3303	0	9.3303	44

## 345	-9.1695	0	9.1695	45
## 346	8.9197	0	8.9197	46
## 347	8.7412	0	8.7412	47
## 348	-8.6855	0	8.6855	48
## 349	8.6004	0	8.6004	49
## 350	-8.4627	0	8.4627	50
## 351	-8.3279	0	8.3279	51
## 352	7.9685	0	7.9685	52
## 353	-7.6253	0	7.6253	53
## 354	7.6069	0	7.6069	54
## 355	-7.1550	0	7.1550	55
## 356	-7.0090	0	7.0090	56
## 357	6.9515	0	6.9515	57
## 358	6.7015	0	6.7015	58
## 359	-6.6194	0	6.6194	59
## 360	6.4181	0	6.4181	60
## 361	-6.2028	0	6.2028	61
## 362	6.2021	0	6.2021	62
## 363	6.0307	0	6.0307	63
## 364	-6.0259	0	6.0259	64
## 365	-5.8298	0	5.8298	65
## 366	5.4565	0	5.4565	66
## 367	-5.2095	0	5.2095	67
## 368	5.1345	0	5.1345	68
## 369	-5.0266	0	5.0266	69
## 370	4.8082	0	4.8082	70
## 371	-4.7876	0	4.7876	71
## 372	4.3607	0	4.3607	72
## 373	-4.2672	0	4.2672	73
## 374	4.0173	0	4.0173	74
## 375	-3.9278	0	3.9278	75
## 376	-3.6908	0	3.6908	76
## 377	3.5664	0	3.5664	77
## 378	3.4144	0	3.4144	78
## 379	-3.3665	0	3.3665	79
## 380	3.3039	0	3.3039	80
## 381	-3.1718	0	3.1718	81
## 382	-2.9096	0	2.9096	82
## 383	2.8975	0	2.8975	83
## 384	-2.6966	0	2.6966	84
## 385	2.6306	0	2.6306	85
## 386	-2.3631	0	2.3631	86
## 387	2.2608	0	2.2608	87
## 388	2.0747	0	2.0747	88
## 389	-2.0203	0	2.0203	89
## 390	1.8037	0	1.8037	90
## 391	-1.6850	0	1.6850	91
## 392	1.2489	0	1.2489	92
## 393	-1.2009	0	1.2009	93
## 394	1.1509	0	1.1509	94
## 395	0.8661	0	0.8661	95
## 396	-0.7968	0	0.7968	96
## 397	0.5965	0	0.5965	97
## 398	-0.4261	0	0.4261	98

## 399	-0.3008	0	0.3008	99
## 400	0.2650	0	0.2650	100
## 401	-19.3461	0	19.3461	1
## 402	19.3143	0	19.3143	2
## 403	19.0966	0	19.0966	3
## 404	-18.2627	0	18.2627	4
## 405	18.0638	0	18.0638	5
## 406	17.6408	0	17.6408	6
## 407	-17.2705	0	17.2705	7
## 408	-16.9001	0	16.9001	8
## 409	16.8745	0	16.8745	9
## 410	-16.5890	0	16.5890	10
## 411	16.3697	0	16.3697	11
## 412	-15.5593	0	15.5593	12
## 413	15.5356	0	15.5356	13
## 414	-15.2830	0	15.2830	14
## 415	15.0425	0	15.0425	15
## 416	-14.7985	0	14.7985	16
## 417	14.6757	0	14.6757	17
## 418	-14.2123	0	14.2123	18
## 419	14.1655	0	14.1655	19
## 420	-13.9499	0	13.9499	20
## 421	-13.6205	0	13.6205	21
## 422	13.5570	0	13.5570	22
## 423	-13.1109	0	13.1109	23
## 424	13.0572	0	13.0572	24
## 425	12.8197	0	12.8197	25
## 426	-12.8148	0	12.8148	26
## 427	12.1383	0	12.1383	27
## 428	-12.1284	0	12.1284	28
## 429	-11.8618	0	11.8618	29
## 430	11.8062	0	11.8062	30
## 431	-11.4408	0	11.4408	31
## 432	11.4278	0	11.4278	32
## 433	-11.1561	0	11.1561	33
## 434	11.0499	0	11.0499	34
## 435	-11.0234	0	11.0234	35
## 436	-10.5046	0	10.5046	36
## 437	10.4469	0	10.4469	37
## 438	-10.3567	0	10.3567	38
## 439	10.2210	0	10.2210	39
## 440	-9.9036	0	9.9036	40
## 441	9.7930	0	9.7930	41
## 442	9.6008	0	9.6008	42
## 443	-9.3570	0	9.3570	43
## 444	9.2536	0	9.2536	44
## 445	9.0587	0	9.0587	45
## 446	-9.0417	0	9.0417	46
## 447	-8.8309	0	8.8309	47
## 448	8.6875	0	8.6875	48
## 449	-8.4424	0	8.4424	49
## 450	8.2910	0	8.2910	50
## 451	-8.2001	0	8.2001	51
## 452	-7.9923	0	7.9923	52

## 453	7.8779	0	7.8779	53
## 454	-7.7832	0	7.7832	54
## 455	7.6408	0	7.6408	55
## 456	7.5491	0	7.5491	56
## 457	-7.4888	0	7.4888	57
## 458	-7.1376	0	7.1376	58
## 459	7.0929	0	7.0929	59
## 460	-6.7211	0	6.7211	60
## 461	6.6116	0	6.6116	61
## 462	6.2971	0	6.2971	62
## 463	6.1503	0	6.1503	63
## 464	-6.1441	0	6.1441	64
## 465	-5.7341	0	5.7341	65
## 466	5.6495	0	5.6495	66
## 467	-5.4630	0	5.4630	67
## 468	5.2706	0	5.2706	68
## 469	-5.2519	0	5.2519	69
## 470	-5.0236	0	5.0236	70
## 471	4.6877	0	4.6877	71
## 472	-4.5624	0	4.5624	72
## 473	4.4818	0	4.4818	73
## 474	-4.3629	0	4.3629	74
## 475	4.1743	0	4.1743	75
## 476	3.9487	0	3.9487	76
## 477	-3.9481	0	3.9481	77
## 478	3.7360	0	3.7360	78
## 479	-3.6622	0	3.6622	79
## 480	-3.4075	0	3.4075	80
## 481	3.3789	0	3.3789	81
## 482	-3.1442	0	3.1442	82
## 483	2.7776	0	2.7776	83
## 484	-2.7001	0	2.7001	84
## 485	2.5898	0	2.5898	85
## 486	-2.5692	0	2.5692	86
## 487	2.0594	0	2.0594	87
## 488	-1.9704	0	1.9704	88
## 489	1.8575	0	1.8575	89
## 490	-1.5361	0	1.5361	90
## 491	1.2680	0	1.2680	91
## 492	-1.2391	0	1.2391	92
## 493	-1.1234	0	1.1234	93
## 494	0.9442	0	0.9442	94
## 495	-0.8243	0	0.8243	95
## 496	0.7181	0	0.7181	96
## 497	-0.3418	0	0.3418	97
## 498	0.2200	0	0.2200	98
## 499	-0.1719	0	0.1719	99
## 500	-0.1075	0	0.1075	100
## 501	19.5055	0	19.5055	1
## 502	-19.2469	0	19.2469	2
## 503	18.5045	0	18.5045	3
## 504	-18.1953	0	18.1953	4
## 505	17.7124	0	17.7124	5
## 506	-17.6787	0	17.6787	6

## 507	17.1470	0	17.1470	7
## 508	-16.6921	0	16.6921	8
## 509	-16.5610	0	16.5610	9
## 510	16.4878	0	16.4878	10
## 511	15.9647	0	15.9647	11
## 512	-15.8574	0	15.8574	12
## 513	-15.5071	0	15.5071	13
## 514	15.5030	0	15.5030	14
## 515	-15.0835	0	15.0835	15
## 516	14.9206	0	14.9206	16
## 517	14.4966	0	14.4966	17
## 518	-14.4177	0	14.4177	18
## 519	-14.1606	0	14.1606	19
## 520	14.1278	0	14.1278	20
## 521	13.7966	0	13.7966	21
## 522	-13.7344	0	13.7344	22
## 523	13.3936	0	13.3936	23
## 524	-13.3759	0	13.3759	24
## 525	-12.8402	0	12.8402	25
## 526	12.7306	0	12.7306	26
## 527	12.5426	0	12.5426	27
## 528	-12.3992	0	12.3992	28
## 529	12.2031	0	12.2031	29
## 530	-11.7342	0	11.7342	30
## 531	11.6371	0	11.6371	31
## 532	11.1549	0	11.1549	32
## 533	-11.1454	0	11.1454	33
## 534	-10.9296	0	10.9296	34
## 535	10.8747	0	10.8747	35
## 536	-10.4979	0	10.4979	36
## 537	10.4615	0	10.4615	37
## 538	-10.4003	0	10.4003	38
## 539	10.1404	0	10.1404	39
## 540	-9.9810	0	9.9810	40
## 541	9.6953	0	9.6953	41
## 542	-9.6841	0	9.6841	42
## 543	9.5445	0	9.5445	43
## 544	-9.2618	0	9.2618	44
## 545	8.8083	0	8.8083	45
## 546	-8.7425	0	8.7425	46
## 547	8.7120	0	8.7120	47
## 548	-8.4471	0	8.4471	48
## 549	8.0820	0	8.0820	49
## 550	-7.9890	0	7.9890	50
## 551	-7.8434	0	7.8434	51
## 552	7.7117	0	7.7117	52
## 553	-7.5483	0	7.5483	53
## 554	7.1981	0	7.1981	54
## 555	-7.1500	0	7.1500	55
## 556	7.0152	0	7.0152	56
## 557	6.8242	0	6.8242	57
## 558	-6.7922	0	6.7922	58
## 559	6.6087	0	6.6087	59
## 560	-6.4974	0	6.4974	60

## 561	6.2813	0	6.2813	61
## 562	-6.2331	0	6.2331	62
## 563	6.1414	0	6.1414	63
## 564	-5.7791	0	5.7791	64
## 565	5.6560	0	5.6560	65
## 566	-5.5105	0	5.5105	66
## 567	5.5022	0	5.5022	67
## 568	-5.3369	0	5.3369	68
## 569	-5.2273	0	5.2273	69
## 570	5.0727	0	5.0727	70
## 571	4.6567	0	4.6567	71
## 572	-4.5699	0	4.5699	72
## 573	4.4201	0	4.4201	73
## 574	4.0668	0	4.0668	74
## 575	-4.0231	0	4.0231	75
## 576	-3.8460	0	3.8460	76
## 577	3.8116	0	3.8116	77
## 578	3.4636	0	3.4636	78
## 579	-3.4347	0	3.4347	79
## 580	3.0314	0	3.0314	80
## 581	-2.9948	0	2.9948	81
## 582	-2.8945	0	2.8945	82
## 583	2.7567	0	2.7567	83
## 584	-2.5470	0	2.5470	84
## 585	2.4962	0	2.4962	85
## 586	-2.4051	0	2.4051	86
## 587	-1.9899	0	1.9899	87
## 588	-1.8963	0	1.8963	88
## 589	1.7126	0	1.7126	89
## 590	1.5892	0	1.5892	90
## 591	-1.4025	0	1.4025	91
## 592	1.2691	0	1.2691	92
## 593	-1.1506	0	1.1506	93
## 594	0.8635	0	0.8635	94
## 595	-0.6750	0	0.6750	95
## 596	0.6404	0	0.6404	96
## 597	-0.4008	0	0.4008	97
## 598	0.3228	0	0.3228	98
## 599	0.2130	0	0.2130	99
## 600	-0.0503	0	0.0503	100
## 601	18.8474	0	18.8474	1
## 602	-18.8407	0	18.8407	2
## 603	18.4263	0	18.4263	3
## 604	-18.1948	0	18.1948	4
## 605	17.9095	0	17.9095	5
## 606	-17.4188	0	17.4188	6
## 607	-17.0538	0	17.0538	7
## 608	16.8402	0	16.8402	8
## 609	-16.6678	0	16.6678	9
## 610	16.5217	0	16.5217	10
## 611	16.3423	0	16.3423	11
## 612	-16.1729	0	16.1729	12
## 613	15.4297	0	15.4297	13
## 614	-15.2443	0	15.2443	14

## 615	15.0530	0	15.0530	15
## 616	-14.8284	0	14.8284	16
## 617	14.4573	0	14.4573	17
## 618	-14.4505	0	14.4505	18
## 619	14.1665	0	14.1665	19
## 620	-14.0506	0	14.0506	20
## 621	13.6449	0	13.6449	21
## 622	-13.5745	0	13.5745	22
## 623	13.4224	0	13.4224	23
## 624	-13.1435	0	13.1435	24
## 625	-12.7721	0	12.7721	25
## 626	12.6642	0	12.6642	26
## 627	-12.5394	0	12.5394	27
## 628	12.3017	0	12.3017	28
## 629	-11.8017	0	11.8017	29
## 630	11.7712	0	11.7712	30
## 631	11.5334	0	11.5334	31
## 632	-11.3096	0	11.3096	32
## 633	-11.0883	0	11.0883	33
## 634	11.0198	0	11.0198	34
## 635	10.7973	0	10.7973	35
## 636	10.7475	0	10.7475	36
## 637	-10.4665	0	10.4665	37
## 638	-10.1479	0	10.1479	38
## 639	10.1251	0	10.1251	39
## 640	-9.7515	0	9.7515	40
## 641	9.6445	0	9.6445	41
## 642	-9.6246	0	9.6246	42
## 643	9.4618	0	9.4618	43
## 644	-9.3506	0	9.3506	44
## 645	9.0732	0	9.0732	45
## 646	-8.8110	0	8.8110	46
## 647	8.6780	0	8.6780	47
## 648	8.4358	0	8.4358	48
## 649	-8.3365	0	8.3365	49
## 650	8.1124	0	8.1124	50
## 651	7.9402	0	7.9402	51
## 652	-7.8626	0	7.8626	52
## 653	-7.7496	0	7.7496	53
## 654	-7.6047	0	7.6047	54
## 655	7.4195	0	7.4195	55
## 656	-7.1556	0	7.1556	56
## 657	7.0358	0	7.0358	57
## 658	-6.8697	0	6.8697	58
## 659	6.6591	0	6.6591	59
## 660	-6.3691	0	6.3691	60
## 661	6.3192	0	6.3192	61
## 662	-6.1368	0	6.1368	62
## 663	6.0409	0	6.0409	63
## 664	-5.7749	0	5.7749	64
## 665	5.6864	0	5.6864	65
## 666	-5.4981	0	5.4981	66
## 667	5.4420	0	5.4420	67
## 668	5.2076	0	5.2076	68

## 669	-5.1742	0	5.1742	69
## 670	4.9650	0	4.9650	70
## 671	-4.8342	0	4.8342	71
## 672	4.6475	0	4.6475	72
## 673	-4.5755	0	4.5755	73
## 674	4.4402	0	4.4402	74
## 675	-4.1638	0	4.1638	75
## 676	-3.8636	0	3.8636	76
## 677	3.8254	0	3.8254	77
## 678	-3.7071	0	3.7071	78
## 679	3.5723	0	3.5723	79
## 680	-3.3465	0	3.3465	80
## 681	-3.1164	0	3.1164	81
## 682	3.0486	0	3.0486	82
## 683	2.6538	0	2.6538	83
## 684	-2.6425	0	2.6425	84
## 685	2.4465	0	2.4465	85
## 686	-2.3805	0	2.3805	86
## 687	-2.1946	0	2.1946	87
## 688	2.1446	0	2.1446	88
## 689	1.7292	0	1.7292	89
## 690	-1.6132	0	1.6132	90
## 691	1.4387	0	1.4387	91
## 692	1.2650	0	1.2650	92
## 693	-1.1713	0	1.1713	93
## 694	1.0036	0	1.0036	94
## 695	-0.9796	0	0.9796	95
## 696	0.7714	0	0.7714	96
## 697	-0.6236	0	0.6236	97
## 698	0.4471	0	0.4471	98
## 699	-0.2948	0	0.2948	99
## 700	0.1480	0	0.1480	100
## 701	19.0254	0	19.0254	1
## 702	18.6493	0	18.6493	2
## 703	-18.1287	0	18.1287	3
## 704	18.0543	0	18.0543	4
## 705	-17.6370	0	17.6370	5
## 706	17.3404	0	17.3404	6
## 707	-17.2168	0	17.2168	7
## 708	16.9223	0	16.9223	8
## 709	-16.8304	0	16.8304	9
## 710	-16.5297	0	16.5297	10
## 711	16.1428	0	16.1428	11
## 712	15.6821	0	15.6821	12
## 713	-15.5147	0	15.5147	13
## 714	15.3921	0	15.3921	14
## 715	-15.2957	0	15.2957	15
## 716	-14.6405	0	14.6405	16
## 717	14.5375	0	14.5375	17
## 718	-14.1635	0	14.1635	18
## 719	-14.0186	0	14.0186	19
## 720	14.0082	0	14.0082	20
## 721	13.7660	0	13.7660	21
## 722	-13.5899	0	13.5899	22

## 723	13.4897	0	13.4897	23
## 724	13.1990	0	13.1990	24
## 725	-13.0098	0	13.0098	25
## 726	-12.6722	0	12.6722	26
## 727	-12.4124	0	12.4124	27
## 728	12.4044	0	12.4044	28
## 729	-12.0492	0	12.0492	29
## 730	11.8824	0	11.8824	30
## 731	-11.5223	0	11.5223	31
## 732	11.4967	0	11.4967	32
## 733	11.1264	0	11.1264	33
## 734	-11.0057	0	11.0057	34
## 735	10.8565	0	10.8565	35
## 736	-10.5308	0	10.5308	36
## 737	10.4285	0	10.4285	37
## 738	-10.2387	0	10.2387	38
## 739	10.1721	0	10.1721	39
## 740	9.9070	0	9.9070	40
## 741	-9.8906	0	9.8906	41
## 742	9.5807	0	9.5807	42
## 743	-9.5001	0	9.5001	43
## 744	-9.4210	0	9.4210	44
## 745	-9.1316	0	9.1316	45
## 746	9.0430	0	9.0430	46
## 747	-8.8875	0	8.8875	47
## 748	8.7492	0	8.7492	48
## 749	8.3893	0	8.3893	49
## 750	-8.3205	0	8.3205	50
## 751	7.8974	0	7.8974	51
## 752	-7.8014	0	7.8014	52
## 753	7.5153	0	7.5153	53
## 754	-7.4798	0	7.4798	54
## 755	-7.2491	0	7.2491	55
## 756	7.0862	0	7.0862	56
## 757	-7.0720	0	7.0720	57
## 758	6.7654	0	6.7654	58
## 759	-6.4984	0	6.4984	59
## 760	6.3977	0	6.3977	60
## 761	6.2796	0	6.2796	61
## 762	-6.2386	0	6.2386	62
## 763	5.9431	0	5.9431	63
## 764	-5.7753	0	5.7753	64
## 765	5.5668	0	5.5668	65
## 766	-5.4714	0	5.4714	66
## 767	-5.2760	0	5.2760	67
## 768	-5.1483	0	5.1483	68
## 769	5.0717	0	5.0717	69
## 770	4.6953	0	4.6953	70
## 771	-4.6073	0	4.6073	71
## 772	-4.4604	0	4.4604	72
## 773	4.4194	0	4.4194	73
## 774	4.1819	0	4.1819	74
## 775	-3.9980	0	3.9980	75
## 776	3.8928	0	3.8928	76

## 777	-3.6925	0	3.6925	77
## 778	3.6096	0	3.6096	78
## 779	-3.5876	0	3.5876	79
## 780	3.3880	0	3.3880	80
## 781	-3.2030	0	3.2030	81
## 782	3.0076	0	3.0076	82
## 783	-2.5926	0	2.5926	83
## 784	2.5683	0	2.5683	84
## 785	-2.4932	0	2.4932	85
## 786	2.0333	0	2.0333	86
## 787	-2.0292	0	2.0292	87
## 788	1.8855	0	1.8855	88
## 789	-1.7339	0	1.7339	89
## 790	1.4561	0	1.4561	90
## 791	-1.3959	0	1.3959	91
## 792	1.1738	0	1.1738	92
## 793	-1.1671	0	1.1671	93
## 794	-1.0055	0	1.0055	94
## 795	0.9806	0	0.9806	95
## 796	0.4411	0	0.4411	96
## 797	-0.3624	0	0.3624	97
## 798	0.2873	0	0.2873	98
## 799	-0.1288	0	0.1288	99
## 800	0.0655	0	0.0655	100
## 801	19.5107	0	19.5107	1
## 802	-18.5138	0	18.5138	2
## 803	-18.0884	0	18.0884	3
## 804	17.9989	0	17.9989	4
## 805	17.6872	0	17.6872	5
## 806	17.2006	0	17.2006	6
## 807	-16.9198	0	16.9198	7
## 808	16.8749	0	16.8749	8
## 809	-16.6784	0	16.6784	9
## 810	-16.3319	0	16.3319	10
## 811	16.2381	0	16.2381	11
## 812	-15.8185	0	15.8185	12
## 813	15.4645	0	15.4645	13
## 814	-15.2647	0	15.2647	14
## 815	14.9804	0	14.9804	15
## 816	-14.5571	0	14.5571	16
## 817	14.2948	0	14.2948	17
## 818	-13.9929	0	13.9929	18
## 819	13.7851	0	13.7851	19
## 820	-13.6877	0	13.6877	20
## 821	13.4315	0	13.4315	21
## 822	-13.4127	0	13.4127	22
## 823	13.1537	0	13.1537	23
## 824	-12.8791	0	12.8791	24
## 825	-12.7507	0	12.7507	25
## 826	12.6652	0	12.6652	26
## 827	12.4277	0	12.4277	27
## 828	-12.3212	0	12.3212	28
## 829	12.0957	0	12.0957	29
## 830	-11.8327	0	11.8327	30

## 831	11.6827	0	11.6827	31
## 832	-11.5790	0	11.5790	32
## 833	11.2186	0	11.2186	33
## 834	-11.0590	0	11.0590	34
## 835	10.7493	0	10.7493	35
## 836	-10.6700	0	10.6700	36
## 837	10.4011	0	10.4011	37
## 838	-10.2659	0	10.2659	38
## 839	-9.9095	0	9.9095	39
## 840	9.7633	0	9.7633	40
## 841	-9.6093	0	9.6093	41
## 842	9.5500	0	9.5500	42
## 843	-9.3108	0	9.3108	43
## 844	9.2858	0	9.2858	44
## 845	-9.1235	0	9.1235	45
## 846	8.8439	0	8.8439	46
## 847	-8.6481	0	8.6481	47
## 848	8.5417	0	8.5417	48
## 849	8.2615	0	8.2615	49
## 850	7.9037	0	7.9037	50
## 851	-7.8107	0	7.8107	51
## 852	-7.5829	0	7.5829	52
## 853	7.5797	0	7.5797	53
## 854	-7.3588	0	7.3588	54
## 855	7.1730	0	7.1730	55
## 856	-6.9233	0	6.9233	56
## 857	6.7891	0	6.7891	57
## 858	-6.5276	0	6.5276	58
## 859	6.4980	0	6.4980	59
## 860	6.2077	0	6.2077	60
## 861	-6.1822	0	6.1822	61
## 862	-6.0630	0	6.0630	62
## 863	-5.9546	0	5.9546	63
## 864	5.7940	0	5.7940	64
## 865	5.5057	0	5.5057	65
## 866	-5.4447	0	5.4447	66
## 867	-5.2556	0	5.2556	67
## 868	5.1807	0	5.1807	68
## 869	-4.9922	0	4.9922	69
## 870	4.9332	0	4.9332	70
## 871	4.4865	0	4.4865	71
## 872	-4.4156	0	4.4156	72
## 873	-4.3033	0	4.3033	73
## 874	4.2663	0	4.2663	74
## 875	4.1140	0	4.1140	75
## 876	-3.7617	0	3.7617	76
## 877	3.6435	0	3.6435	77
## 878	-3.5741	0	3.5741	78
## 879	3.5165	0	3.5165	79
## 880	3.3389	0	3.3389	80
## 881	-3.1699	0	3.1699	81
## 882	-3.0599	0	3.0599	82
## 883	2.9339	0	2.9339	83
## 884	2.8264	0	2.8264	84

## 885	-2.8159	0	2.8159	85
## 886	-2.3907	0	2.3907	86
## 887	2.2275	0	2.2275	87
## 888	-2.0014	0	2.0014	88
## 889	-1.7936	0	1.7936	89
## 890	-1.6295	0	1.6295	90
## 891	1.6203	0	1.6203	91
## 892	1.4613	0	1.4613	92
## 893	-1.2281	0	1.2281	93
## 894	1.1489	0	1.1489	94
## 895	-0.9248	0	0.9248	95
## 896	0.9123	0	0.9123	96
## 897	-0.5462	0	0.5462	97
## 898	0.5461	0	0.5461	98
## 899	0.3243	0	0.3243	99
## 900	-0.0134	0	0.0134	100
## 901	19.6913	0	19.6913	1
## 902	-19.1074	0	19.1074	2
## 903	18.6695	0	18.6695	3
## 904	-18.4439	0	18.4439	4
## 905	-18.0214	0	18.0214	5
## 906	17.5094	0	17.5094	6
## 907	-17.5019	0	17.5019	7
## 908	16.6349	0	16.6349	8
## 909	-16.6166	0	16.6166	9
## 910	16.0209	0	16.0209	10
## 911	-15.9706	0	15.9706	11
## 912	-15.6919	0	15.6919	12
## 913	15.6286	0	15.6286	13
## 914	15.3457	0	15.3457	14
## 915	-15.2457	0	15.2457	15
## 916	14.9009	0	14.9009	16
## 917	-14.6187	0	14.6187	17
## 918	14.5595	0	14.5595	18
## 919	-14.4061	0	14.4061	19
## 920	13.9853	0	13.9853	20
## 921	13.6243	0	13.6243	21
## 922	-13.5068	0	13.5068	22
## 923	-13.2320	0	13.2320	23
## 924	13.2184	0	13.2184	24
## 925	-12.9431	0	12.9431	25
## 926	12.4206	0	12.4206	26
## 927	12.2136	0	12.2136	27
## 928	-12.1842	0	12.1842	28
## 929	-11.7385	0	11.7385	29
## 930	11.6946	0	11.6946	30
## 931	-11.6590	0	11.6590	31
## 932	11.5038	0	11.5038	32
## 933	-11.2895	0	11.2895	33
## 934	11.1500	0	11.1500	34
## 935	-10.9586	0	10.9586	35
## 936	10.7508	0	10.7508	36
## 937	-10.4162	0	10.4162	37
## 938	10.4029	0	10.4029	38

## 939	-10.1580	0	10.1580	39
## 940	10.1043	0	10.1043	40
## 941	-9.9790	0	9.9790	41
## 942	-9.7458	0	9.7458	42
## 943	-9.5107	0	9.5107	43
## 944	9.4537	0	9.4537	44
## 945	9.3718	0	9.3718	45
## 946	-8.9789	0	8.9789	46
## 947	8.9020	0	8.9020	47
## 948	-8.4945	0	8.4945	48
## 949	8.2109	0	8.2109	49
## 950	-8.1822	0	8.1822	50
## 951	8.0317	0	8.0317	51
## 952	7.6946	0	7.6946	52
## 953	-7.5527	0	7.5527	53
## 954	-7.4546	0	7.4546	54
## 955	7.4228	0	7.4228	55
## 956	7.1139	0	7.1139	56
## 957	-7.0436	0	7.0436	57
## 958	-6.7419	0	6.7419	58
## 959	6.7006	0	6.7006	59
## 960	-6.3860	0	6.3860	60
## 961	6.3412	0	6.3412	61
## 962	6.1965	0	6.1965	62
## 963	-5.8371	0	5.8371	63
## 964	-5.7029	0	5.7029	64
## 965	5.6978	0	5.6978	65
## 966	-5.5517	0	5.5517	66
## 967	5.2674	0	5.2674	67
## 968	-5.1501	0	5.1501	68
## 969	-5.0782	0	5.0782	69
## 970	4.9447	0	4.9447	70
## 971	4.7727	0	4.7727	71
## 972	-4.4476	0	4.4476	72
## 973	4.3679	0	4.3679	73
## 974	-4.3292	0	4.3292	74
## 975	-4.0344	0	4.0344	75
## 976	3.9727	0	3.9727	76
## 977	3.8647	0	3.8647	77
## 978	-3.5984	0	3.5984	78
## 979	3.4072	0	3.4072	79
## 980	-3.2597	0	3.2597	80
## 981	3.2285	0	3.2285	81
## 982	3.0290	0	3.0290	82
## 983	-3.0132	0	3.0132	83
## 984	2.6932	0	2.6932	84
## 985	-2.6542	0	2.6542	85
## 986	2.3061	0	2.3061	86
## 987	-2.2966	0	2.2966	87
## 988	2.0111	0	2.0111	88
## 989	-1.9669	0	1.9669	89
## 990	-1.8706	0	1.8706	90
## 991	1.7444	0	1.7444	91
## 992	-1.6377	0	1.6377	92

## 993	1.4616	0	1.4616	93
## 994	-1.4373	0	1.4373	94
## 995	0.8226	0	0.8226	95
## 996	-0.6331	0	0.6331	96
## 997	0.4405	0	0.4405	97
## 998	0.3010	0	0.3010	98
## 999	-0.2681	0	0.2681	99
## 1000	-0.1215	0	0.1215	100
## 1001	19.4753	0	19.4753	1
## 1002	-19.3660	0	19.3660	2
## 1003	-18.3767	0	18.3767	3
## 1004	18.0748	0	18.0748	4
## 1005	17.2379	0	17.2379	5
## 1006	16.8377	0	16.8377	6
## 1007	-16.7605	0	16.7605	7
## 1008	-16.6419	0	16.6419	8
## 1009	16.3781	0	16.3781	9
## 1010	-16.1990	0	16.1990	10
## 1011	16.0242	0	16.0242	11
## 1012	-15.8813	0	15.8813	12
## 1013	15.4826	0	15.4826	13
## 1014	-15.2712	0	15.2712	14
## 1015	15.0830	0	15.0830	15
## 1016	-15.0549	0	15.0549	16
## 1017	14.4622	0	14.4622	17
## 1018	14.3165	0	14.3165	18
## 1019	-14.2759	0	14.2759	19
## 1020	-13.9873	0	13.9873	20
## 1021	13.6711	0	13.6711	21
## 1022	-13.3671	0	13.3671	22
## 1023	13.3339	0	13.3339	23
## 1024	-13.0009	0	13.0009	24
## 1025	12.7064	0	12.7064	25
## 1026	-12.5169	0	12.5169	26
## 1027	12.4420	0	12.4420	27
## 1028	-11.9095	0	11.9095	28
## 1029	11.8848	0	11.8848	29
## 1030	-11.7147	0	11.7147	30
## 1031	-11.6158	0	11.6158	31
## 1032	11.5565	0	11.5565	32
## 1033	11.2176	0	11.2176	33
## 1034	-11.1550	0	11.1550	34
## 1035	11.0231	0	11.0231	35
## 1036	-10.8661	0	10.8661	36
## 1037	10.5573	0	10.5573	37
## 1038	-10.3515	0	10.3515	38
## 1039	-10.2244	0	10.2244	39
## 1040	10.0324	0	10.0324	40
## 1041	9.9523	0	9.9523	41
## 1042	-9.8087	0	9.8087	42
## 1043	9.5196	0	9.5196	43
## 1044	-9.4283	0	9.4283	44
## 1045	-9.2734	0	9.2734	45
## 1046	9.0824	0	9.0824	46

## 1047	8.9388	0	8.9388	47
## 1048	-8.8629	0	8.8629	48
## 1049	8.5983	0	8.5983	49
## 1050	-8.3278	0	8.3278	50
## 1051	8.0599	0	8.0599	51
## 1052	-8.0535	0	8.0535	52
## 1053	7.8863	0	7.8863	53
## 1054	-7.6401	0	7.6401	54
## 1055	7.3225	0	7.3225	55
## 1056	-7.0831	0	7.0831	56
## 1057	7.0829	0	7.0829	57
## 1058	6.8748	0	6.8748	58
## 1059	-6.7435	0	6.7435	59
## 1060	6.6378	0	6.6378	60
## 1061	-6.4128	0	6.4128	61
## 1062	-6.2543	0	6.2543	62
## 1063	6.1295	0	6.1295	63
## 1064	-5.9560	0	5.9560	64
## 1065	5.9458	0	5.9458	65
## 1066	-5.6860	0	5.6860	66
## 1067	5.6326	0	5.6326	67
## 1068	-5.3183	0	5.3183	68
## 1069	5.1016	0	5.1016	69
## 1070	4.8695	0	4.8695	70
## 1071	-4.8481	0	4.8481	71
## 1072	-4.5234	0	4.5234	72
## 1073	4.2415	0	4.2415	73
## 1074	-4.2054	0	4.2054	74
## 1075	3.9892	0	3.9892	75
## 1076	-3.9436	0	3.9436	76
## 1077	3.7143	0	3.7143	77
## 1078	-3.4398	0	3.4398	78
## 1079	3.4196	0	3.4196	79
## 1080	-3.3002	0	3.3002	80
## 1081	3.1078	0	3.1078	81
## 1082	-3.0315	0	3.0315	82
## 1083	2.9394	0	2.9394	83
## 1084	-2.6778	0	2.6778	84
## 1085	2.3203	0	2.3203	85
## 1086	-2.2250	0	2.2250	86
## 1087	-2.0560	0	2.0560	87
## 1088	2.0137	0	2.0137	88
## 1089	1.7637	0	1.7637	89
## 1090	1.5772	0	1.5772	90
## 1091	-1.4805	0	1.4805	91
## 1092	-1.2646	0	1.2646	92
## 1093	1.0910	0	1.0910	93
## 1094	-1.0350	0	1.0350	94
## 1095	0.6813	0	0.6813	95
## 1096	-0.3999	0	0.3999	96
## 1097	0.3247	0	0.3247	97
## 1098	0.2220	0	0.2220	98
## 1099	-0.1918	0	0.1918	99
## 1100	-0.1171	0	0.1171	100

## 1101	19.5389	0	19.5389	1
## 1102	-18.9569	0	18.9569	2
## 1103	18.3928	0	18.3928	3
## 1104	-18.2418	0	18.2418	4
## 1105	-17.5535	0	17.5535	5
## 1106	17.2303	0	17.2303	6
## 1107	-16.8204	0	16.8204	7
## 1108	16.7665	0	16.7665	8
## 1109	-16.4661	0	16.4661	9
## 1110	16.3558	0	16.3558	10
## 1111	16.0523	0	16.0523	11
## 1112	-15.6909	0	15.6909	12
## 1113	-15.3978	0	15.3978	13
## 1114	15.2192	0	15.2192	14
## 1115	-14.8300	0	14.8300	15
## 1116	14.4957	0	14.4957	16
## 1117	-14.4366	0	14.4366	17
## 1118	14.2400	0	14.2400	18
## 1119	14.1335	0	14.1335	19
## 1120	-14.1126	0	14.1126	20
## 1121	13.4063	0	13.4063	21
## 1122	-13.3285	0	13.3285	22
## 1123	13.1470	0	13.1470	23
## 1124	12.9319	0	12.9319	24
## 1125	-12.8830	0	12.8830	25
## 1126	-12.4301	0	12.4301	26
## 1127	12.2341	0	12.2341	27
## 1128	-12.0753	0	12.0753	28
## 1129	11.6917	0	11.6917	29
## 1130	-11.6867	0	11.6867	30
## 1131	-11.4096	0	11.4096	31
## 1132	11.3441	0	11.3441	32
## 1133	-11.1858	0	11.1858	33
## 1134	11.0470	0	11.0470	34
## 1135	-10.8060	0	10.8060	35
## 1136	10.7666	0	10.7666	36
## 1137	10.4438	0	10.4438	37
## 1138	-10.0503	0	10.0503	38
## 1139	9.9959	0	9.9959	39
## 1140	9.7465	0	9.7465	40
## 1141	-9.6279	0	9.6279	41
## 1142	-9.4846	0	9.4846	42
## 1143	-9.1782	0	9.1782	43
## 1144	9.0993	0	9.0993	44
## 1145	-8.8697	0	8.8697	45
## 1146	8.7307	0	8.7307	46
## 1147	-8.4585	0	8.4585	47
## 1148	8.4536	0	8.4536	48
## 1149	-8.0116	0	8.0116	49
## 1150	7.9997	0	7.9997	50
## 1151	7.7045	0	7.7045	51
## 1152	-7.5739	0	7.5739	52
## 1153	7.5360	0	7.5360	53
## 1154	-7.4120	0	7.4120	54

## 1155	7.2170	0	7.2170	55
## 1156	-7.0500	0	7.0500	56
## 1157	7.0271	0	7.0271	57
## 1158	-6.7167	0	6.7167	58
## 1159	6.6531	0	6.6531	59
## 1160	-6.5320	0	6.5320	60
## 1161	6.3123	0	6.3123	61
## 1162	-6.1791	0	6.1791	62
## 1163	6.1173	0	6.1173	63
## 1164	-5.9333	0	5.9333	64
## 1165	5.6930	0	5.6930	65
## 1166	5.4963	0	5.4963	66
## 1167	-5.3551	0	5.3551	67
## 1168	5.1811	0	5.1811	68
## 1169	-5.0957	0	5.0957	69
## 1170	-4.8135	0	4.8135	70
## 1171	4.7887	0	4.7887	71
## 1172	4.4748	0	4.4748	72
## 1173	-4.4512	0	4.4512	73
## 1174	-4.2836	0	4.2836	74
## 1175	4.1642	0	4.1642	75
## 1176	-3.9065	0	3.9065	76
## 1177	3.8443	0	3.8443	77
## 1178	-3.7017	0	3.7017	78
## 1179	-3.2608	0	3.2608	79
## 1180	3.1665	0	3.1665	80
## 1181	-3.0039	0	3.0039	81
## 1182	2.9096	0	2.9096	82
## 1183	-2.7048	0	2.7048	83
## 1184	2.5585	0	2.5585	84
## 1185	-2.4659	0	2.4659	85
## 1186	2.3652	0	2.3652	86
## 1187	-2.1218	0	2.1218	87
## 1188	-1.8365	0	1.8365	88
## 1189	1.8037	0	1.8037	89
## 1190	1.5451	0	1.5451	90
## 1191	1.3218	0	1.3218	91
## 1192	-1.1810	0	1.1810	92
## 1193	-0.9379	0	0.9379	93
## 1194	0.9100	0	0.9100	94
## 1195	-0.7223	0	0.7223	95
## 1196	0.6398	0	0.6398	96
## 1197	0.5251	0	0.5251	97
## 1198	-0.2884	0	0.2884	98
## 1199	0.2097	0	0.2097	99
## 1200	-0.0268	0	0.0268	100
## 1201	-18.7165	0	18.7165	1
## 1202	18.7072	0	18.7072	2
## 1203	-18.1025	0	18.1025	3
## 1204	17.8546	0	17.8546	4
## 1205	-17.7385	0	17.7385	5
## 1206	17.4426	0	17.4426	6
## 1207	-16.9372	0	16.9372	7
## 1208	16.5854	0	16.5854	8

## 1209	-16.3951	0	16.3951	9
## 1210	16.3576	0	16.3576	10
## 1211	-15.9294	0	15.9294	11
## 1212	15.6357	0	15.6357	12
## 1213	-15.5414	0	15.5414	13
## 1214	15.1349	0	15.1349	14
## 1215	-15.0671	0	15.0671	15
## 1216	-14.7759	0	14.7759	16
## 1217	14.5836	0	14.5836	17
## 1218	-14.3162	0	14.3162	18
## 1219	14.0961	0	14.0961	19
## 1220	-13.8289	0	13.8289	20
## 1221	13.5879	0	13.5879	21
## 1222	-13.5200	0	13.5200	22
## 1223	13.0848	0	13.0848	23
## 1224	12.7883	0	12.7883	24
## 1225	-12.7230	0	12.7230	25
## 1226	12.6621	0	12.6621	26
## 1227	-12.3786	0	12.3786	27
## 1228	12.2626	0	12.2626	28
## 1229	-12.1976	0	12.1976	29
## 1230	-11.6257	0	11.6257	30
## 1231	11.5805	0	11.5805	31
## 1232	11.4107	0	11.4107	32
## 1233	-11.1806	0	11.1806	33
## 1234	11.1744	0	11.1744	34
## 1235	10.7057	0	10.7057	35
## 1236	10.5463	0	10.5463	36
## 1237	-10.4629	0	10.4629	37
## 1238	-10.3130	0	10.3130	38
## 1239	10.1138	0	10.1138	39
## 1240	-10.0787	0	10.0787	40
## 1241	-9.7541	0	9.7541	41
## 1242	9.5649	0	9.5649	42
## 1243	9.3621	0	9.3621	43
## 1244	-9.2857	0	9.2857	44
## 1245	9.0089	0	9.0089	45
## 1246	-8.9425	0	8.9425	46
## 1247	8.6647	0	8.6647	47
## 1248	-8.5479	0	8.5479	48
## 1249	8.3247	0	8.3247	49
## 1250	-8.2023	0	8.2023	50
## 1251	8.0495	0	8.0495	51
## 1252	-8.0459	0	8.0459	52
## 1253	-7.7546	0	7.7546	53
## 1254	7.4000	0	7.4000	54
## 1255	-7.3674	0	7.3674	55
## 1256	7.1584	0	7.1584	56
## 1257	-7.0375	0	7.0375	57
## 1258	6.8909	0	6.8909	58
## 1259	6.5878	0	6.5878	59
## 1260	-6.5254	0	6.5254	60
## 1261	-6.3676	0	6.3676	61
## 1262	6.1582	0	6.1582	62

## 1263	-5.9920	0	5.9920	63
## 1264	5.7768	0	5.7768	64
## 1265	-5.7166	0	5.7166	65
## 1266	-5.5461	0	5.5461	66
## 1267	5.4041	0	5.4041	67
## 1268	5.1768	0	5.1768	68
## 1269	-4.7923	0	4.7923	69
## 1270	4.6705	0	4.6705	70
## 1271	-4.5726	0	4.5726	71
## 1272	-4.3958	0	4.3958	72
## 1273	4.2800	0	4.2800	73
## 1274	4.1400	0	4.1400	74
## 1275	-3.8923	0	3.8923	75
## 1276	3.7241	0	3.7241	76
## 1277	-3.6058	0	3.6058	77
## 1278	3.5021	0	3.5021	78
## 1279	-3.3418	0	3.3418	79
## 1280	3.1240	0	3.1240	80
## 1281	-2.9790	0	2.9790	81
## 1282	2.9389	0	2.9389	82
## 1283	-2.7319	0	2.7319	83
## 1284	2.6897	0	2.6897	84
## 1285	-2.4527	0	2.4527	85
## 1286	-2.2502	0	2.2502	86
## 1287	1.8363	0	1.8363	87
## 1288	-1.7647	0	1.7647	88
## 1289	1.6172	0	1.6172	89
## 1290	1.3960	0	1.3960	90
## 1291	-1.3811	0	1.3811	91
## 1292	1.3510	0	1.3510	92
## 1293	-1.1849	0	1.1849	93
## 1294	-0.9365	0	0.9365	94
## 1295	0.8213	0	0.8213	95
## 1296	-0.6194	0	0.6194	96
## 1297	-0.3919	0	0.3919	97
## 1298	0.3821	0	0.3821	98
## 1299	-0.2160	0	0.2160	99
## 1300	0.1195	0	0.1195	100
## 1301	19.2221	0	19.2221	1
## 1302	-18.3933	0	18.3933	2
## 1303	-18.2608	0	18.2608	3
## 1304	18.0912	0	18.0912	4
## 1305	17.6881	0	17.6881	5
## 1306	17.3893	0	17.3893	6
## 1307	-17.2360	0	17.2360	7
## 1308	-16.5715	0	16.5715	8
## 1309	16.4248	0	16.4248	9
## 1310	-16.3672	0	16.3672	10
## 1311	16.1014	0	16.1014	11
## 1312	-15.7900	0	15.7900	12
## 1313	15.6582	0	15.6582	13
## 1314	-15.5819	0	15.5819	14
## 1315	15.0524	0	15.0524	15
## 1316	-14.9721	0	14.9721	16

## 1317	14.8925	0	14.8925	17
## 1318	14.5548	0	14.5548	18
## 1319	-14.2872	0	14.2872	19
## 1320	-13.9946	0	13.9946	20
## 1321	13.6698	0	13.6698	21
## 1322	-13.5542	0	13.5542	22
## 1323	13.3480	0	13.3480	23
## 1324	-13.0618	0	13.0618	24
## 1325	12.9408	0	12.9408	25
## 1326	-12.6277	0	12.6277	26
## 1327	-12.4143	0	12.4143	27
## 1328	-12.2730	0	12.2730	28
## 1329	12.0673	0	12.0673	29
## 1330	-11.8330	0	11.8330	30
## 1331	11.8087	0	11.8087	31
## 1332	11.4908	0	11.4908	32
## 1333	-11.3162	0	11.3162	33
## 1334	10.9670	0	10.9670	34
## 1335	-10.8321	0	10.8321	35
## 1336	-10.5395	0	10.5395	36
## 1337	10.5016	0	10.5016	37
## 1338	10.3704	0	10.3704	38
## 1339	-10.0132	0	10.0132	39
## 1340	9.8790	0	9.8790	40
## 1341	9.6554	0	9.6554	41
## 1342	-9.6137	0	9.6137	42
## 1343	-9.4508	0	9.4508	43
## 1344	9.3223	0	9.3223	44
## 1345	-9.0364	0	9.0364	45
## 1346	8.7763	0	8.7763	46
## 1347	-8.7641	0	8.7641	47
## 1348	-8.5930	0	8.5930	48
## 1349	8.4418	0	8.4418	49
## 1350	8.1626	0	8.1626	50
## 1351	-8.0632	0	8.0632	51
## 1352	7.7646	0	7.7646	52
## 1353	-7.7144	0	7.7144	53
## 1354	7.5056	0	7.5056	54
## 1355	7.3946	0	7.3946	55
## 1356	-7.3862	0	7.3862	56
## 1357	-7.2071	0	7.2071	57
## 1358	6.8433	0	6.8433	58
## 1359	-6.8145	0	6.8145	59
## 1360	6.7184	0	6.7184	60
## 1361	6.3395	0	6.3395	61
## 1362	-6.3155	0	6.3155	62
## 1363	-5.8228	0	5.8228	63
## 1364	5.7774	0	5.7774	64
## 1365	-5.5707	0	5.5707	65
## 1366	5.5041	0	5.5041	66
## 1367	-5.4554	0	5.4554	67
## 1368	5.1939	0	5.1939	68
## 1369	-4.9492	0	4.9492	69
## 1370	4.6904	0	4.6904	70

## 1371	-4.6412	0	4.6412	71
## 1372	4.4111	0	4.4111	72
## 1373	-4.3598	0	4.3598	73
## 1374	-4.2989	0	4.2989	74
## 1375	3.8791	0	3.8791	75
## 1376	-3.6445	0	3.6445	76
## 1377	3.5592	0	3.5592	77
## 1378	-3.4785	0	3.4785	78
## 1379	3.2704	0	3.2704	79
## 1380	3.1671	0	3.1671	80
## 1381	-3.0304	0	3.0304	81
## 1382	-2.9618	0	2.9618	82
## 1383	2.9417	0	2.9417	83
## 1384	2.6959	0	2.6959	84
## 1385	-2.3351	0	2.3351	85
## 1386	2.3191	0	2.3191	86
## 1387	2.0535	0	2.0535	87
## 1388	-1.8517	0	1.8517	88
## 1389	1.5750	0	1.5750	89
## 1390	-1.5044	0	1.5044	90
## 1391	-1.3820	0	1.3820	91
## 1392	1.2406	0	1.2406	92
## 1393	-1.1112	0	1.1112	93
## 1394	1.0285	0	1.0285	94
## 1395	0.8853	0	0.8853	95
## 1396	-0.8793	0	0.8793	96
## 1397	-0.5671	0	0.5671	97
## 1398	0.3405	0	0.3405	98
## 1399	-0.1068	0	0.1068	99
## 1400	0.0511	0	0.0511	100
## 1401	-19.4156	0	19.4156	1
## 1402	19.1919	0	19.1919	2
## 1403	-18.5443	0	18.5443	3
## 1404	18.2077	0	18.2077	4
## 1405	17.6015	0	17.6015	5
## 1406	-17.5318	0	17.5318	6
## 1407	17.1692	0	17.1692	7
## 1408	-16.8677	0	16.8677	8
## 1409	16.4075	0	16.4075	9
## 1410	-16.2313	0	16.2313	10
## 1411	-15.9005	0	15.9005	11
## 1412	15.6536	0	15.6536	12
## 1413	-15.3587	0	15.3587	13
## 1414	15.1054	0	15.1054	14
## 1415	14.8820	0	14.8820	15
## 1416	-14.8816	0	14.8816	16
## 1417	14.7479	0	14.7479	17
## 1418	14.3886	0	14.3886	18
## 1419	-14.2636	0	14.2636	19
## 1420	13.8414	0	13.8414	20
## 1421	-13.6820	0	13.6820	21
## 1422	-13.5405	0	13.5405	22
## 1423	13.1765	0	13.1765	23
## 1424	12.9840	0	12.9840	24

## 1425	-12.8108	0	12.8108	25
## 1426	12.6313	0	12.6313	26
## 1427	-12.4665	0	12.4665	27
## 1428	12.1966	0	12.1966	28
## 1429	-12.1850	0	12.1850	29
## 1430	11.8158	0	11.8158	30
## 1431	-11.7496	0	11.7496	31
## 1432	11.3582	0	11.3582	32
## 1433	-11.3069	0	11.3069	33
## 1434	11.0892	0	11.0892	34
## 1435	-11.0178	0	11.0178	35
## 1436	10.8815	0	10.8815	36
## 1437	-10.6642	0	10.6642	37
## 1438	10.4213	0	10.4213	38
## 1439	-10.2340	0	10.2340	39
## 1440	10.0972	0	10.0972	40
## 1441	-9.9418	0	9.9418	41
## 1442	9.7973	0	9.7973	42
## 1443	9.5474	0	9.5474	43
## 1444	-9.3800	0	9.3800	44
## 1445	-9.1385	0	9.1385	45
## 1446	8.9814	0	8.9814	46
## 1447	-8.8717	0	8.8717	47
## 1448	8.8241	0	8.8241	48
## 1449	8.4659	0	8.4659	49
## 1450	-8.4124	0	8.4124	50
## 1451	8.0715	0	8.0715	51
## 1452	-8.0693	0	8.0693	52
## 1453	-7.7854	0	7.7854	53
## 1454	7.5909	0	7.5909	54
## 1455	-7.3454	0	7.3454	55
## 1456	7.1269	0	7.1269	56
## 1457	-7.0241	0	7.0241	57
## 1458	-6.8439	0	6.8439	58
## 1459	6.5777	0	6.5777	59
## 1460	6.4238	0	6.4238	60
## 1461	-6.2387	0	6.2387	61
## 1462	-5.9879	0	5.9879	62
## 1463	5.7810	0	5.7810	63
## 1464	-5.6876	0	5.6876	64
## 1465	5.6182	0	5.6182	65
## 1466	-5.3664	0	5.3664	66
## 1467	5.1634	0	5.1634	67
## 1468	5.0348	0	5.0348	68
## 1469	-4.9106	0	4.9106	69
## 1470	4.7805	0	4.7805	70
## 1471	-4.6441	0	4.6441	71
## 1472	4.2992	0	4.2992	72
## 1473	-4.2236	0	4.2236	73
## 1474	3.9789	0	3.9789	74
## 1475	-3.9720	0	3.9720	75
## 1476	3.7797	0	3.7797	76
## 1477	3.6962	0	3.6962	77
## 1478	-3.6841	0	3.6841	78

## 1479	3.3416	0	3.3416	79
## 1480	-3.2698	0	3.2698	80
## 1481	2.9045	0	2.9045	81
## 1482	2.7665	0	2.7665	82
## 1483	-2.6059	0	2.6059	83
## 1484	-2.4828	0	2.4828	84
## 1485	2.3298	0	2.3298	85
## 1486	2.1358	0	2.1358	86
## 1487	-2.0297	0	2.0297	87
## 1488	-2.0087	0	2.0087	88
## 1489	1.7213	0	1.7213	89
## 1490	-1.6262	0	1.6262	90
## 1491	1.4002	0	1.4002	91
## 1492	-1.3854	0	1.3854	92
## 1493	-1.2047	0	1.2047	93
## 1494	1.1112	0	1.1112	94
## 1495	0.8917	0	0.8917	95
## 1496	-0.8624	0	0.8624	96
## 1497	0.6539	0	0.6539	97
## 1498	0.3138	0	0.3138	98
## 1499	-0.2837	0	0.2837	99
## 1500	-0.1535	0	0.1535	100
## 1501	-19.3442	0	19.3442	1
## 1502	18.9945	0	18.9945	2
## 1503	-18.6560	0	18.6560	3
## 1504	18.1207	0	18.1207	4
## 1505	17.4944	0	17.4944	5
## 1506	-17.4613	0	17.4613	6
## 1507	-16.8307	0	16.8307	7
## 1508	16.7240	0	16.7240	8
## 1509	-16.4169	0	16.4169	9
## 1510	16.2515	0	16.2515	10
## 1511	16.0053	0	16.0053	11
## 1512	-15.9108	0	15.9108	12
## 1513	-15.5106	0	15.5106	13
## 1514	15.3330	0	15.3330	14
## 1515	-15.2134	0	15.2134	15
## 1516	-14.6297	0	14.6297	16
## 1517	14.5687	0	14.5687	17
## 1518	14.1372	0	14.1372	18
## 1519	-13.9885	0	13.9885	19
## 1520	13.9065	0	13.9065	20
## 1521	-13.5151	0	13.5151	21
## 1522	13.3364	0	13.3364	22
## 1523	13.2390	0	13.2390	23
## 1524	-12.9793	0	12.9793	24
## 1525	12.8477	0	12.8477	25
## 1526	-12.6953	0	12.6953	26
## 1527	12.5272	0	12.5272	27
## 1528	-12.1665	0	12.1665	28
## 1529	11.9608	0	11.9608	29
## 1530	-11.8374	0	11.8374	30
## 1531	11.6997	0	11.6997	31
## 1532	-11.4965	0	11.4965	32

## 1533	11.0728	0	11.0728	33
## 1534	-10.9726	0	10.9726	34
## 1535	10.8446	0	10.8446	35
## 1536	-10.6351	0	10.6351	36
## 1537	-10.4875	0	10.4875	37
## 1538	10.3812	0	10.3812	38
## 1539	9.9941	0	9.9941	39
## 1540	-9.8020	0	9.8020	40
## 1541	9.6764	0	9.6764	41
## 1542	-9.3936	0	9.3936	42
## 1543	9.3100	0	9.3100	43
## 1544	9.0431	0	9.0431	44
## 1545	-8.9906	0	8.9906	45
## 1546	-8.6340	0	8.6340	46
## 1547	-8.5517	0	8.5517	47
## 1548	8.4484	0	8.4484	48
## 1549	8.2377	0	8.2377	49
## 1550	-8.2035	0	8.2035	50
## 1551	-7.9548	0	7.9548	51
## 1552	7.9462	0	7.9462	52
## 1553	7.7058	0	7.7058	53
## 1554	-7.3579	0	7.3579	54
## 1555	7.1142	0	7.1142	55
## 1556	-7.1105	0	7.1105	56
## 1557	7.0466	0	7.0466	57
## 1558	-6.9746	0	6.9746	58
## 1559	6.7495	0	6.7495	59
## 1560	-6.4979	0	6.4979	60
## 1561	6.4970	0	6.4970	61
## 1562	-6.0646	0	6.0646	62
## 1563	5.9904	0	5.9904	63
## 1564	5.8438	0	5.8438	64
## 1565	-5.8030	0	5.8030	65
## 1566	-5.6861	0	5.6861	66
## 1567	5.5628	0	5.5628	67
## 1568	5.1001	0	5.1001	68
## 1569	-5.0564	0	5.0564	69
## 1570	-4.9346	0	4.9346	70
## 1571	4.8399	0	4.8399	71
## 1572	4.5596	0	4.5596	72
## 1573	-4.5562	0	4.5562	73
## 1574	4.1458	0	4.1458	74
## 1575	-4.0909	0	4.0909	75
## 1576	-3.9348	0	3.9348	76
## 1577	3.8579	0	3.8579	77
## 1578	3.5789	0	3.5789	78
## 1579	-3.5574	0	3.5574	79
## 1580	3.3244	0	3.3244	80
## 1581	-3.1992	0	3.1992	81
## 1582	2.8763	0	2.8763	82
## 1583	-2.6097	0	2.6097	83
## 1584	2.4383	0	2.4383	84
## 1585	-2.3761	0	2.3761	85
## 1586	2.2236	0	2.2236	86

## 1587	-2.1868	0	2.1868	87
## 1588	-1.7433	0	1.7433	88
## 1589	1.7083	0	1.7083	89
## 1590	-1.5280	0	1.5280	90
## 1591	1.2783	0	1.2783	91
## 1592	-1.2405	0	1.2405	92
## 1593	1.1099	0	1.1099	93
## 1594	-1.0027	0	1.0027	94
## 1595	-0.7226	0	0.7226	95
## 1596	0.6372	0	0.6372	96
## 1597	0.5639	0	0.5639	97
## 1598	-0.2696	0	0.2696	98
## 1599	0.2672	0	0.2672	99
## 1600	-0.0547	0	0.0547	100
## 1601	-19.4946	0	19.4946	1
## 1602	18.9224	0	18.9224	2
## 1603	18.6066	0	18.6066	3
## 1604	-18.3624	0	18.3624	4
## 1605	17.7587	0	17.7587	5
## 1606	-17.4950	0	17.4950	6
## 1607	17.1703	0	17.1703	7
## 1608	-16.9486	0	16.9486	8
## 1609	16.3494	0	16.3494	9
## 1610	16.2904	0	16.2904	10
## 1611	-16.2560	0	16.2560	11
## 1612	-15.6008	0	15.6008	12
## 1613	15.3194	0	15.3194	13
## 1614	15.1886	0	15.1886	14
## 1615	-15.0635	0	15.0635	15
## 1616	14.7449	0	14.7449	16
## 1617	-14.6626	0	14.6626	17
## 1618	14.1668	0	14.1668	18
## 1619	-14.1174	0	14.1174	19
## 1620	-13.9531	0	13.9531	20
## 1621	13.5904	0	13.5904	21
## 1622	-13.3630	0	13.3630	22
## 1623	13.2979	0	13.2979	23
## 1624	-13.1373	0	13.1373	24
## 1625	12.8546	0	12.8546	25
## 1626	-12.6133	0	12.6133	26
## 1627	12.4989	0	12.4989	27
## 1628	12.2007	0	12.2007	28
## 1629	-12.1859	0	12.1859	29
## 1630	-11.9432	0	11.9432	30
## 1631	11.8283	0	11.8283	31
## 1632	-11.7125	0	11.7125	32
## 1633	11.4537	0	11.4537	33
## 1634	-11.0529	0	11.0529	34
## 1635	11.0169	0	11.0169	35
## 1636	-10.7484	0	10.7484	36
## 1637	-10.5850	0	10.5850	37
## 1638	10.4997	0	10.4997	38
## 1639	10.1325	0	10.1325	39
## 1640	9.8265	0	9.8265	40

## 1641	-9.8017	0	9.8017	41
## 1642	-9.6836	0	9.6836	42
## 1643	9.5752	0	9.5752	43
## 1644	-9.4236	0	9.4236	44
## 1645	9.0910	0	9.0910	45
## 1646	-8.9946	0	8.9946	46
## 1647	-8.7511	0	8.7511	47
## 1648	8.6598	0	8.6598	48
## 1649	-8.4325	0	8.4325	49
## 1650	8.3325	0	8.3325	50
## 1651	-8.0562	0	8.0562	51
## 1652	7.9334	0	7.9334	52
## 1653	-7.7731	0	7.7731	53
## 1654	7.6575	0	7.6575	54
## 1655	7.3799	0	7.3799	55
## 1656	-7.3732	0	7.3732	56
## 1657	7.1937	0	7.1937	57
## 1658	-7.1383	0	7.1383	58
## 1659	-6.9482	0	6.9482	59
## 1660	6.8191	0	6.8191	60
## 1661	-6.5340	0	6.5340	61
## 1662	6.2367	0	6.2367	62
## 1663	6.0059	0	6.0059	63
## 1664	-5.9752	0	5.9752	64
## 1665	-5.9216	0	5.9216	65
## 1666	5.7538	0	5.7538	66
## 1667	-5.4863	0	5.4863	67
## 1668	5.4479	0	5.4479	68
## 1669	-5.2119	0	5.2119	69
## 1670	-4.7807	0	4.7807	70
## 1671	4.7782	0	4.7782	71
## 1672	4.4813	0	4.4813	72
## 1673	-4.3032	0	4.3032	73
## 1674	4.2233	0	4.2233	74
## 1675	-3.9647	0	3.9647	75
## 1676	3.9012	0	3.9012	76
## 1677	3.7664	0	3.7664	77
## 1678	-3.6580	0	3.6580	78
## 1679	-3.5859	0	3.5859	79
## 1680	3.5660	0	3.5660	80
## 1681	3.0357	0	3.0357	81
## 1682	-3.0192	0	3.0192	82
## 1683	-2.5830	0	2.5830	83
## 1684	2.5285	0	2.5285	84
## 1685	2.3042	0	2.3042	85
## 1686	-2.1951	0	2.1951	86
## 1687	2.1371	0	2.1371	87
## 1688	2.0629	0	2.0629	88
## 1689	-1.9504	0	1.9504	89
## 1690	1.6055	0	1.6055	90
## 1691	-1.5200	0	1.5200	91
## 1692	-1.2834	0	1.2834	92
## 1693	0.9644	0	0.9644	93
## 1694	-0.8698	0	0.8698	94

## 1695	0.7647	0	0.7647	95
## 1696	0.6212	0	0.6212	96
## 1697	-0.6139	0	0.6139	97
## 1698	0.5732	0	0.5732	98
## 1699	-0.1479	0	0.1479	99
## 1700	0.0172	0	0.0172	100
## 1701	-18.8089	0	18.8089	1
## 1702	18.7251	0	18.7251	2
## 1703	18.2215	0	18.2215	3
## 1704	-18.1873	0	18.1873	4
## 1705	-17.6742	0	17.6742	5
## 1706	17.3529	0	17.3529	6
## 1707	-16.8394	0	16.8394	7
## 1708	16.6307	0	16.6307	8
## 1709	-16.0405	0	16.0405	9
## 1710	15.9896	0	15.9896	10
## 1711	-15.8143	0	15.8143	11
## 1712	-15.4308	0	15.4308	12
## 1713	15.4308	0	15.4308	13
## 1714	14.9442	0	14.9442	14
## 1715	-14.8382	0	14.8382	15
## 1716	14.6696	0	14.6696	16
## 1717	-14.5347	0	14.5347	17
## 1718	-14.1347	0	14.1347	18
## 1719	14.0355	0	14.0355	19
## 1720	13.7642	0	13.7642	20
## 1721	-13.4254	0	13.4254	21
## 1722	13.0982	0	13.0982	22
## 1723	12.8050	0	12.8050	23
## 1724	-12.6379	0	12.6379	24
## 1725	12.5665	0	12.5665	25
## 1726	-12.4431	0	12.4431	26
## 1727	12.2333	0	12.2333	27
## 1728	-12.1532	0	12.1532	28
## 1729	-11.7334	0	11.7334	29
## 1730	11.5419	0	11.5419	30
## 1731	-11.4336	0	11.4336	31
## 1732	11.1362	0	11.1362	32
## 1733	-11.0885	0	11.0885	33
## 1734	11.0661	0	11.0661	34
## 1735	-10.7461	0	10.7461	35
## 1736	10.6960	0	10.6960	36
## 1737	-10.5445	0	10.5445	37
## 1738	10.1106	0	10.1106	38
## 1739	9.7648	0	9.7648	39
## 1740	-9.7019	0	9.7019	40
## 1741	-9.5488	0	9.5488	41
## 1742	9.5452	0	9.5452	42
## 1743	9.0600	0	9.0600	43
## 1744	-9.0189	0	9.0189	44
## 1745	8.9550	0	8.9550	45
## 1746	-8.8533	0	8.8533	46
## 1747	8.6221	0	8.6221	47
## 1748	-8.4912	0	8.4912	48

## 1749	-8.1375	0	8.1375	49
## 1750	8.0720	0	8.0720	50
## 1751	-7.8857	0	7.8857	51
## 1752	7.6700	0	7.6700	52
## 1753	7.4847	0	7.4847	53
## 1754	-7.2665	0	7.2665	54
## 1755	-7.1820	0	7.1820	55
## 1756	7.0616	0	7.0616	56
## 1757	6.9816	0	6.9816	57
## 1758	-6.7965	0	6.7965	58
## 1759	-6.5136	0	6.5136	59
## 1760	6.4111	0	6.4111	60
## 1761	6.1043	0	6.1043	61
## 1762	-6.0842	0	6.0842	62
## 1763	-5.8360	0	5.8360	63
## 1764	5.6598	0	5.6598	64
## 1765	-5.5330	0	5.5330	65
## 1766	-5.3788	0	5.3788	66
## 1767	5.3545	0	5.3545	67
## 1768	5.1108	0	5.1108	68
## 1769	4.8327	0	4.8327	69
## 1770	-4.7176	0	4.7176	70
## 1771	4.4341	0	4.4341	71
## 1772	-4.3622	0	4.3622	72
## 1773	-4.2700	0	4.2700	73
## 1774	4.0636	0	4.0636	74
## 1775	-3.9246	0	3.9246	75
## 1776	3.8110	0	3.8110	76
## 1777	3.5885	0	3.5885	77
## 1778	-3.5796	0	3.5796	78
## 1779	-3.3111	0	3.3111	79
## 1780	3.0404	0	3.0404	80
## 1781	2.9324	0	2.9324	81
## 1782	-2.8764	0	2.8764	82
## 1783	2.6900	0	2.6900	83
## 1784	-2.6124	0	2.6124	84
## 1785	2.3051	0	2.3051	85
## 1786	-2.2033	0	2.2033	86
## 1787	2.0441	0	2.0441	87
## 1788	-1.9186	0	1.9186	88
## 1789	1.8896	0	1.8896	89
## 1790	-1.6320	0	1.6320	90
## 1791	-1.4518	0	1.4518	91
## 1792	1.4090	0	1.4090	92
## 1793	1.1080	0	1.1080	93
## 1794	-1.0933	0	1.0933	94
## 1795	0.9345	0	0.9345	95
## 1796	-0.6394	0	0.6394	96
## 1797	0.5985	0	0.5985	97
## 1798	-0.3304	0	0.3304	98
## 1799	0.3171	0	0.3171	99
## 1800	-0.0288	0	0.0288	100
## 1801	-20.0506	0	20.0506	1
## 1802	19.6243	0	19.6243	2

## 1803	-18.8444	0	18.8444	3
## 1804	18.3011	0	18.3011	4
## 1805	17.6745	0	17.6745	5
## 1806	-17.4589	0	17.4589	6
## 1807	17.1910	0	17.1910	7
## 1808	-16.9257	0	16.9257	8
## 1809	16.3104	0	16.3104	9
## 1810	-16.0742	0	16.0742	10
## 1811	15.9071	0	15.9071	11
## 1812	-15.7570	0	15.7570	12
## 1813	15.3217	0	15.3217	13
## 1814	-15.0263	0	15.0263	14
## 1815	-14.8999	0	14.8999	15
## 1816	14.6939	0	14.6939	16
## 1817	14.1845	0	14.1845	17
## 1818	-14.0532	0	14.0532	18
## 1819	-13.7507	0	13.7507	19
## 1820	13.6747	0	13.6747	20
## 1821	13.3003	0	13.3003	21
## 1822	-13.2664	0	13.2664	22
## 1823	-13.0270	0	13.0270	23
## 1824	12.7480	0	12.7480	24
## 1825	-12.7304	0	12.7304	25
## 1826	12.6431	0	12.6431	26
## 1827	-12.1825	0	12.1825	27
## 1828	-11.9869	0	11.9869	28
## 1829	11.9380	0	11.9380	29
## 1830	11.6431	0	11.6431	30
## 1831	-11.5083	0	11.5083	31
## 1832	-11.1803	0	11.1803	32
## 1833	11.1258	0	11.1258	33
## 1834	10.9807	0	10.9807	34
## 1835	-10.7665	0	10.7665	35
## 1836	10.5170	0	10.5170	36
## 1837	-10.3311	0	10.3311	37
## 1838	10.0823	0	10.0823	38
## 1839	-9.8868	0	9.8868	39
## 1840	9.7903	0	9.7903	40
## 1841	9.6096	0	9.6096	41
## 1842	-9.4775	0	9.4775	42
## 1843	9.3220	0	9.3220	43
## 1844	-9.1940	0	9.1940	44
## 1845	8.8857	0	8.8857	45
## 1846	-8.6615	0	8.6615	46
## 1847	8.6533	0	8.6533	47
## 1848	-8.4079	0	8.4079	48
## 1849	8.1236	0	8.1236	49
## 1850	-8.0484	0	8.0484	50
## 1851	7.9713	0	7.9713	51
## 1852	-7.7953	0	7.7953	52
## 1853	7.5685	0	7.5685	53
## 1854	-7.4355	0	7.4355	54
## 1855	7.1634	0	7.1634	55
## 1856	-6.9531	0	6.9531	56

## 1857	6.8915	0	6.8915	57
## 1858	-6.7813	0	6.7813	58
## 1859	6.5788	0	6.5788	59
## 1860	-6.2516	0	6.2516	60
## 1861	6.1248	0	6.1248	61
## 1862	-6.0003	0	6.0003	62
## 1863	5.9488	0	5.9488	63
## 1864	-5.8269	0	5.8269	64
## 1865	5.7646	0	5.7646	65
## 1866	-5.4416	0	5.4416	66
## 1867	4.9985	0	4.9985	67
## 1868	-4.9094	0	4.9094	68
## 1869	4.7662	0	4.7662	69
## 1870	-4.7660	0	4.7660	70
## 1871	4.6095	0	4.6095	71
## 1872	-4.4019	0	4.4019	72
## 1873	4.1954	0	4.1954	73
## 1874	-4.0707	0	4.0707	74
## 1875	-3.7294	0	3.7294	75
## 1876	3.6053	0	3.6053	76
## 1877	-3.4802	0	3.4802	77
## 1878	3.3097	0	3.3097	78
## 1879	3.1645	0	3.1645	79
## 1880	-2.9313	0	2.9313	80
## 1881	2.7722	0	2.7722	81
## 1882	-2.7604	0	2.7604	82
## 1883	2.6672	0	2.6672	83
## 1884	-2.4601	0	2.4601	84
## 1885	2.4555	0	2.4555	85
## 1886	-2.2590	0	2.2590	86
## 1887	2.1122	0	2.1122	87
## 1888	-1.8800	0	1.8800	88
## 1889	1.8274	0	1.8274	89
## 1890	-1.6228	0	1.6228	90
## 1891	1.4594	0	1.4594	91
## 1892	-1.2513	0	1.2513	92
## 1893	1.2150	0	1.2150	93
## 1894	-1.0694	0	1.0694	94
## 1895	1.0017	0	1.0017	95
## 1896	0.7153	0	0.7153	96
## 1897	-0.6546	0	0.6546	97
## 1898	0.3886	0	0.3886	98
## 1899	-0.3766	0	0.3766	99
## 1900	0.1290	0	0.1290	100
## 1901	19.4423	0	19.4423	1
## 1902	-18.9266	0	18.9266	2
## 1903	18.6880	0	18.6880	3
## 1904	-18.3500	0	18.3500	4
## 1905	18.1181	0	18.1181	5
## 1906	-17.5961	0	17.5961	6
## 1907	17.4853	0	17.4853	7
## 1908	-17.2804	0	17.2804	8
## 1909	17.0774	0	17.0774	9
## 1910	-16.6332	0	16.6332	10

##	1911	16.2563	0	16.2563	11
##	1912	-15.8410	0	15.8410	12
##	1913	15.5484	0	15.5484	13
##	1914	-15.3538	0	15.3538	14
##	1915	-14.9520	0	14.9520	15
##	1916	14.9168	0	14.9168	16
##	1917	-14.6154	0	14.6154	17
##	1918	14.4769	0	14.4769	18
##	1919	-14.2590	0	14.2590	19
##	1920	14.2120	0	14.2120	20
##	1921	13.8882	0	13.8882	21
##	1922	-13.7235	0	13.7235	22
##	1923	-13.5337	0	13.5337	23
##	1924	13.4579	0	13.4579	24
##	1925	-12.9469	0	12.9469	25
##	1926	12.7190	0	12.7190	26
##	1927	-12.6377	0	12.6377	27
##	1928	12.3674	0	12.3674	28
##	1929	-12.2200	0	12.2200	29
##	1930	12.0061	0	12.0061	30
##	1931	-11.7933	0	11.7933	31
##	1932	11.5974	0	11.5974	32
##	1933	11.2825	0	11.2825	33
##	1934	-11.2223	0	11.2223	34
##	1935	-11.0278	0	11.0278	35
##	1936	10.7839	0	10.7839	36
##	1937	-10.6054	0	10.6054	37
##	1938	10.5299	0	10.5299	38
##	1939	-10.2292	0	10.2292	39
##	1940	10.1813	0	10.1813	40
##	1941	10.0196	0	10.0196	41
##	1942	-9.7752	0	9.7752	42
##	1943	9.7290	0	9.7290	43
##	1944	-9.4708	0	9.4708	44
##	1945	-9.0877	0	9.0877	45
##	1946	9.0676	0	9.0676	46
##	1947	8.7865	0	8.7865	47
##	1948	-8.6417	0	8.6417	48
##	1949	-8.4413	0	8.4413	49
##	1950	8.3996	0	8.3996	50
##	1951	8.2305	0	8.2305	51
##	1952	8.0374	0	8.0374	52
##	1953	-8.0203	0	8.0203	53
##	1954	7.6379	0	7.6379	54
##	1955	-7.5111	0	7.5111	55
##	1956	-7.2381	0	7.2381	56
##	1957	7.1461	0	7.1461	57
##	1958	-6.9905	0	6.9905	58
##	1959	6.7199	0	6.7199	59
##	1960	-6.6790	0	6.6790	60
##	1961	6.3577	0	6.3577	61
##	1962	6.1549	0	6.1549	62
##	1963	-6.1380	0	6.1380	63
##	1964	-5.9483	0	5.9483	64

## 1965	5.8185	0	5.8185	65
## 1966	5.6214	0	5.6214	66
## 1967	-5.5168	0	5.5168	67
## 1968	5.1988	0	5.1988	68
## 1969	-5.1535	0	5.1535	69
## 1970	4.8110	0	4.8110	70
## 1971	4.5740	0	4.5740	71
## 1972	-4.4909	0	4.4909	72
## 1973	-4.4328	0	4.4328	73
## 1974	4.2733	0	4.2733	74
## 1975	-4.0166	0	4.0166	75
## 1976	3.9670	0	3.9670	76
## 1977	-3.4917	0	3.4917	77
## 1978	3.4428	0	3.4428	78
## 1979	3.4314	0	3.4314	79
## 1980	-3.3246	0	3.3246	80
## 1981	-2.8683	0	2.8683	81
## 1982	-2.7801	0	2.7801	82
## 1983	2.7578	0	2.7578	83
## 1984	2.3831	0	2.3831	84
## 1985	-2.3511	0	2.3511	85
## 1986	2.1801	0	2.1801	86
## 1987	-2.1401	0	2.1401	87
## 1988	2.0000	0	2.0000	88
## 1989	-1.8467	0	1.8467	89
## 1990	1.5242	0	1.5242	90
## 1991	-1.4754	0	1.4754	91
## 1992	-1.3854	0	1.3854	92
## 1993	1.2963	0	1.2963	93
## 1994	1.0513	0	1.0513	94
## 1995	-0.9898	0	0.9898	95
## 1996	-0.6033	0	0.6033	96
## 1997	0.5902	0	0.5902	97
## 1998	-0.4034	0	0.4034	98
## 1999	0.3536	0	0.3536	99
## 2000	0.0298	0	0.0298	100
## 2001	19.2986	0	19.2986	1
## 2002	-18.9221	0	18.9221	2
## 2003	18.4691	0	18.4691	3
## 2004	-18.2387	0	18.2387	4
## 2005	17.8021	0	17.8021	5
## 2006	-17.7056	0	17.7056	6
## 2007	17.5613	0	17.5613	7
## 2008	-16.7425	0	16.7425	8
## 2009	16.7370	0	16.7370	9
## 2010	16.1987	0	16.1987	10
## 2011	-16.0659	0	16.0659	11
## 2012	-15.7961	0	15.7961	12
## 2013	-15.6137	0	15.6137	13
## 2014	15.5858	0	15.5858	14
## 2015	15.1408	0	15.1408	15
## 2016	-14.5640	0	14.5640	16
## 2017	14.2105	0	14.2105	17
## 2018	-14.1508	0	14.1508	18

##	2019	13.9994	0	13.9994	19
##	2020	-13.4935	0	13.4935	20
##	2021	13.3780	0	13.3780	21
##	2022	-13.1886	0	13.1886	22
##	2023	13.1052	0	13.1052	23
##	2024	-12.8934	0	12.8934	24
##	2025	-12.8105	0	12.8105	25
##	2026	12.6276	0	12.6276	26
##	2027	12.4882	0	12.4882	27
##	2028	-12.1946	0	12.1946	28
##	2029	12.1414	0	12.1414	29
##	2030	11.8832	0	11.8832	30
##	2031	-11.7224	0	11.7224	31
##	2032	11.4461	0	11.4461	32
##	2033	-11.2758	0	11.2758	33
##	2034	11.1577	0	11.1577	34
##	2035	-10.8595	0	10.8595	35
##	2036	-10.6194	0	10.6194	36
##	2037	10.4617	0	10.4617	37
##	2038	10.1252	0	10.1252	38
##	2039	-10.0714	0	10.0714	39
##	2040	9.9123	0	9.9123	40
##	2041	-9.8561	0	9.8561	41
##	2042	-9.6265	0	9.6265	42
##	2043	-9.3599	0	9.3599	43
##	2044	9.2750	0	9.2750	44
##	2045	-9.0634	0	9.0634	45
##	2046	8.7606	0	8.7606	46
##	2047	8.5193	0	8.5193	47
##	2048	-8.4102	0	8.4102	48
##	2049	-8.1444	0	8.1444	49
##	2050	-8.0675	0	8.0675	50
##	2051	8.0578	0	8.0578	51
##	2052	7.7694	0	7.7694	52
##	2053	-7.5009	0	7.5009	53
##	2054	7.3349	0	7.3349	54
##	2055	-7.2129	0	7.2129	55
##	2056	-6.9993	0	6.9993	56
##	2057	6.9701	0	6.9701	57
##	2058	6.7536	0	6.7536	58
##	2059	-6.5943	0	6.5943	59
##	2060	-6.3736	0	6.3736	60
##	2061	6.3326	0	6.3326	61
##	2062	6.0465	0	6.0465	62
##	2063	-5.9196	0	5.9196	63
##	2064	5.8974	0	5.8974	64
##	2065	5.5572	0	5.5572	65
##	2066	-5.5107	0	5.5107	66
##	2067	-5.3739	0	5.3739	67
##	2068	5.0550	0	5.0550	68
##	2069	-4.9639	0	4.9639	69
##	2070	-4.6765	0	4.6765	70
##	2071	4.6709	0	4.6709	71
##	2072	4.4476	0	4.4476	72

## 2073	-4.2491	0	4.2491	73
## 2074	4.1400	0	4.1400	74
## 2075	-3.9488	0	3.9488	75
## 2076	3.8420	0	3.8420	76
## 2077	3.6714	0	3.6714	77
## 2078	-3.5439	0	3.5439	78
## 2079	-3.3600	0	3.3600	79
## 2080	3.0372	0	3.0372	80
## 2081	-2.8608	0	2.8608	81
## 2082	2.8382	0	2.8382	82
## 2083	-2.7212	0	2.7212	83
## 2084	2.5328	0	2.5328	84
## 2085	-2.4455	0	2.4455	85
## 2086	-2.2781	0	2.2781	86
## 2087	1.9801	0	1.9801	87
## 2088	-1.8561	0	1.8561	88
## 2089	1.7801	0	1.7801	89
## 2090	-1.6793	0	1.6793	90
## 2091	1.5253	0	1.5253	91
## 2092	1.3355	0	1.3355	92
## 2093	-1.3344	0	1.3344	93
## 2094	-1.1840	0	1.1840	94
## 2095	0.9953	0	0.9953	95
## 2096	0.6743	0	0.6743	96
## 2097	-0.6258	0	0.6258	97
## 2098	0.2480	0	0.2480	98
## 2099	0.0936	0	0.0936	99
## 2100	-0.0900	0	0.0900	100
## 2101	-19.6200	0	19.6200	1
## 2102	19.1254	0	19.1254	2
## 2103	-18.7537	0	18.7537	3
## 2104	18.5036	0	18.5036	4
## 2105	17.9359	0	17.9359	5
## 2106	-17.6060	0	17.6060	6
## 2107	17.2653	0	17.2653	7
## 2108	-16.8664	0	16.8664	8
## 2109	16.7968	0	16.7968	9
## 2110	-16.2994	0	16.2994	10
## 2111	-16.0229	0	16.0229	11
## 2112	15.8335	0	15.8335	12
## 2113	15.4339	0	15.4339	13
## 2114	-15.3740	0	15.3740	14
## 2115	-15.2529	0	15.2529	15
## 2116	-14.9191	0	14.9191	16
## 2117	14.7283	0	14.7283	17
## 2118	14.4658	0	14.4658	18
## 2119	-14.4525	0	14.4525	19
## 2120	-14.1407	0	14.1407	20
## 2121	13.8926	0	13.8926	21
## 2122	13.6113	0	13.6113	22
## 2123	-13.1646	0	13.1646	23
## 2124	13.0523	0	13.0523	24
## 2125	-12.8735	0	12.8735	25
## 2126	-12.6623	0	12.6623	26

##	2127	12.6301	0	12.6301	27
##	2128	12.2825	0	12.2825	28
##	2129	-12.1220	0	12.1220	29
##	2130	11.8197	0	11.8197	30
##	2131	-11.7539	0	11.7539	31
##	2132	-11.4016	0	11.4016	32
##	2133	11.3598	0	11.3598	33
##	2134	-11.2109	0	11.2109	34
##	2135	11.0982	0	11.0982	35
##	2136	10.5836	0	10.5836	36
##	2137	-10.5126	0	10.5126	37
##	2138	10.2704	0	10.2704	38
##	2139	-10.1062	0	10.1062	39
##	2140	9.7705	0	9.7705	40
##	2141	-9.5951	0	9.5951	41
##	2142	9.4877	0	9.4877	42
##	2143	-9.4389	0	9.4389	43
##	2144	9.1525	0	9.1525	44
##	2145	-8.8429	0	8.8429	45
##	2146	8.8344	0	8.8344	46
##	2147	-8.4625	0	8.4625	47
##	2148	8.4416	0	8.4416	48
##	2149	-8.1591	0	8.1591	49
##	2150	8.0517	0	8.0517	50
##	2151	7.9447	0	7.9447	51
##	2152	7.7795	0	7.7795	52
##	2153	-7.7258	0	7.7258	53
##	2154	7.4876	0	7.4876	54
##	2155	-7.4042	0	7.4042	55
##	2156	-7.2246	0	7.2246	56
##	2157	7.0079	0	7.0079	57
##	2158	-6.8243	0	6.8243	58
##	2159	6.7939	0	6.7939	59
##	2160	-6.6339	0	6.6339	60
##	2161	6.5024	0	6.5024	61
##	2162	-6.4043	0	6.4043	62
##	2163	-6.1720	0	6.1720	63
##	2164	6.0251	0	6.0251	64
##	2165	-5.8707	0	5.8707	65
##	2166	-5.7085	0	5.7085	66
##	2167	5.6774	0	5.6774	67
##	2168	5.4911	0	5.4911	68
##	2169	5.3751	0	5.3751	69
##	2170	-5.1383	0	5.1383	70
##	2171	4.9315	0	4.9315	71
##	2172	-4.6656	0	4.6656	72
##	2173	-4.5184	0	4.5184	73
##	2174	4.4552	0	4.4552	74
##	2175	-4.2061	0	4.2061	75
##	2176	3.9575	0	3.9575	76
##	2177	-3.8498	0	3.8498	77
##	2178	-3.6364	0	3.6364	78
##	2179	3.5615	0	3.5615	79
##	2180	3.3156	0	3.3156	80

##	2181	-3.2047	0	3.2047	81
##	2182	3.0704	0	3.0704	82
##	2183	2.9025	0	2.9025	83
##	2184	-2.7384	0	2.7384	84
##	2185	-2.6705	0	2.6705	85
##	2186	2.5824	0	2.5824	86
##	2187	2.4797	0	2.4797	87
##	2188	-2.2336	0	2.2336	88
##	2189	-1.8913	0	1.8913	89
##	2190	1.7770	0	1.7770	90
##	2191	1.6189	0	1.6189	91
##	2192	-1.4212	0	1.4212	92
##	2193	1.2693	0	1.2693	93
##	2194	-1.2122	0	1.2122	94
##	2195	-0.9610	0	0.9610	95
##	2196	0.9460	0	0.9460	96
##	2197	-0.4758	0	0.4758	97
##	2198	0.4656	0	0.4656	98
##	2199	0.2941	0	0.2941	99
##	2200	-0.2605	0	0.2605	100
##	2201	18.8874	0	18.8874	1
##	2202	-18.8513	0	18.8513	2
##	2203	18.6313	0	18.6313	3
##	2204	-17.8874	0	17.8874	4
##	2205	17.6550	0	17.6550	5
##	2206	-17.6207	0	17.6207	6
##	2207	-16.8802	0	16.8802	7
##	2208	16.7041	0	16.7041	8
##	2209	-16.5752	0	16.5752	9
##	2210	16.0426	0	16.0426	10
##	2211	15.9230	0	15.9230	11
##	2212	-15.7999	0	15.7999	12
##	2213	-15.3161	0	15.3161	13
##	2214	14.8904	0	14.8904	14
##	2215	-14.7934	0	14.7934	15
##	2216	14.6592	0	14.6592	16
##	2217	14.0736	0	14.0736	17
##	2218	-14.0516	0	14.0516	18
##	2219	-13.7590	0	13.7590	19
##	2220	13.7051	0	13.7051	20
##	2221	13.2822	0	13.2822	21
##	2222	-13.1773	0	13.1773	22
##	2223	13.1769	0	13.1769	23
##	2224	-12.9912	0	12.9912	24
##	2225	-12.6931	0	12.6931	25
##	2226	12.4733	0	12.4733	26
##	2227	-12.2830	0	12.2830	27
##	2228	11.9565	0	11.9565	28
##	2229	11.8028	0	11.8028	29
##	2230	-11.6153	0	11.6153	30
##	2231	11.4750	0	11.4750	31
##	2232	-11.2672	0	11.2672	32
##	2233	11.1459	0	11.1459	33
##	2234	-10.8925	0	10.8925	34

##	2235	-10.7152	0	10.7152	35
##	2236	10.4332	0	10.4332	36
##	2237	-10.3497	0	10.3497	37
##	2238	10.1189	0	10.1189	38
##	2239	9.9975	0	9.9975	39
##	2240	-9.8770	0	9.8770	40
##	2241	-9.6331	0	9.6331	41
##	2242	9.3272	0	9.3272	42
##	2243	-9.2474	0	9.2474	43
##	2244	9.1059	0	9.1059	44
##	2245	8.9849	0	8.9849	45
##	2246	-8.8116	0	8.8116	46
##	2247	8.5934	0	8.5934	47
##	2248	-8.4053	0	8.4053	48
##	2249	8.2923	0	8.2923	49
##	2250	-8.1603	0	8.1603	50
##	2251	-8.0265	0	8.0265	51
##	2252	7.6369	0	7.6369	52
##	2253	7.4588	0	7.4588	53
##	2254	-7.3738	0	7.3738	54
##	2255	-7.1461	0	7.1461	55
##	2256	7.1146	0	7.1146	56
##	2257	-7.0532	0	7.0532	57
##	2258	6.7478	0	6.7478	58
##	2259	-6.5882	0	6.5882	59
##	2260	6.4866	0	6.4866	60
##	2261	-6.2674	0	6.2674	61
##	2262	-6.1574	0	6.1574	62
##	2263	6.1489	0	6.1489	63
##	2264	5.9667	0	5.9667	64
##	2265	-5.7024	0	5.7024	65
##	2266	5.5965	0	5.5965	66
##	2267	5.2892	0	5.2892	67
##	2268	-5.1035	0	5.1035	68
##	2269	5.0444	0	5.0444	69
##	2270	-4.8363	0	4.8363	70
##	2271	-4.3506	0	4.3506	71
##	2272	4.3482	0	4.3482	72
##	2273	-4.1931	0	4.1931	73
##	2274	4.1005	0	4.1005	74
##	2275	-3.9781	0	3.9781	75
##	2276	3.9243	0	3.9243	76
##	2277	-3.6820	0	3.6820	77
##	2278	3.5427	0	3.5427	78
##	2279	3.4017	0	3.4017	79
##	2280	-3.2903	0	3.2903	80
##	2281	3.2099	0	3.2099	81
##	2282	-3.0479	0	3.0479	82
##	2283	2.8770	0	2.8770	83
##	2284	-2.6973	0	2.6973	84
##	2285	-2.5314	0	2.5314	85
##	2286	2.4743	0	2.4743	86
##	2287	-2.2496	0	2.2496	87
##	2288	1.9364	0	1.9364	88

##	2289	-1.7914	0	1.7914	89
##	2290	1.6019	0	1.6019	90
##	2291	-1.3825	0	1.3825	91
##	2292	1.3700	0	1.3700	92
##	2293	-1.0910	0	1.0910	93
##	2294	1.0453	0	1.0453	94
##	2295	0.8375	0	0.8375	95
##	2296	-0.7526	0	0.7526	96
##	2297	0.6871	0	0.6871	97
##	2298	-0.5937	0	0.5937	98
##	2299	0.2472	0	0.2472	99
##	2300	-0.1214	0	0.1214	100
##	2301	-20.2132	0	20.2132	1
##	2302	19.1319	0	19.1319	2
##	2303	-18.2159	0	18.2159	3
##	2304	18.1735	0	18.1735	4
##	2305	-17.7383	0	17.7383	5
##	2306	-17.5500	0	17.5500	6
##	2307	17.4479	0	17.4479	7
##	2308	16.8739	0	16.8739	8
##	2309	-16.7437	0	16.7437	9
##	2310	-16.3737	0	16.3737	10
##	2311	16.1463	0	16.1463	11
##	2312	15.8429	0	15.8429	12
##	2313	-15.5078	0	15.5078	13
##	2314	-15.2018	0	15.2018	14
##	2315	15.0520	0	15.0520	15
##	2316	14.8291	0	14.8291	16
##	2317	14.4235	0	14.4235	17
##	2318	-14.3452	0	14.3452	18
##	2319	13.9083	0	13.9083	19
##	2320	-13.8726	0	13.8726	20
##	2321	-13.6068	0	13.6068	21
##	2322	13.4132	0	13.4132	22
##	2323	13.0790	0	13.0790	23
##	2324	-12.8077	0	12.8077	24
##	2325	12.6762	0	12.6762	25
##	2326	-12.5713	0	12.5713	26
##	2327	-12.2751	0	12.2751	27
##	2328	12.1938	0	12.1938	28
##	2329	11.9396	0	11.9396	29
##	2330	-11.8982	0	11.8982	30
##	2331	-11.4712	0	11.4712	31
##	2332	11.3272	0	11.3272	32
##	2333	-11.2160	0	11.2160	33
##	2334	10.9285	0	10.9285	34
##	2335	-10.6938	0	10.6938	35
##	2336	10.5858	0	10.5858	36
##	2337	-10.3864	0	10.3864	37
##	2338	10.2499	0	10.2499	38
##	2339	-10.2068	0	10.2068	39
##	2340	9.9445	0	9.9445	40
##	2341	-9.7430	0	9.7430	41
##	2342	9.5296	0	9.5296	42

##	2343	-9.4748	0	9.4748	43
##	2344	9.2293	0	9.2293	44
##	2345	-9.1902	0	9.1902	45
##	2346	8.8807	0	8.8807	46
##	2347	-8.6467	0	8.6467	47
##	2348	-8.5557	0	8.5557	48
##	2349	8.3962	0	8.3962	49
##	2350	8.0325	0	8.0325	50
##	2351	-7.8975	0	7.8975	51
##	2352	7.7362	0	7.7362	52
##	2353	-7.5715	0	7.5715	53
##	2354	7.4666	0	7.4666	54
##	2355	-7.2491	0	7.2491	55
##	2356	-6.9846	0	6.9846	56
##	2357	6.9275	0	6.9275	57
##	2358	6.8231	0	6.8231	58
##	2359	-6.6440	0	6.6440	59
##	2360	6.5704	0	6.5704	60
##	2361	-6.2596	0	6.2596	61
##	2362	6.1246	0	6.1246	62
##	2363	-5.8434	0	5.8434	63
##	2364	5.7392	0	5.7392	64
##	2365	-5.6860	0	5.6860	65
##	2366	5.3312	0	5.3312	66
##	2367	5.2606	0	5.2606	67
##	2368	-5.2103	0	5.2103	68
##	2369	-4.9574	0	4.9574	69
##	2370	4.8820	0	4.8820	70
##	2371	4.5766	0	4.5766	71
##	2372	4.4463	0	4.4463	72
##	2373	-4.3660	0	4.3660	73
##	2374	-4.1335	0	4.1335	74
##	2375	4.0468	0	4.0468	75
##	2376	-3.8604	0	3.8604	76
##	2377	3.6105	0	3.6105	77
##	2378	3.4515	0	3.4515	78
##	2379	-3.3939	0	3.3939	79
##	2380	-3.1657	0	3.1657	80
##	2381	-3.0116	0	3.0116	81
##	2382	3.0004	0	3.0004	82
##	2383	-2.5922	0	2.5922	83
##	2384	2.4633	0	2.4633	84
##	2385	2.2825	0	2.2825	85
##	2386	-2.2051	0	2.2051	86
##	2387	2.0702	0	2.0702	87
##	2388	-1.9611	0	1.9611	88
##	2389	1.7564	0	1.7564	89
##	2390	-1.7313	0	1.7313	90
##	2391	1.4888	0	1.4888	91
##	2392	-1.4371	0	1.4371	92
##	2393	-1.1332	0	1.1332	93
##	2394	0.9789	0	0.9789	94
##	2395	0.8710	0	0.8710	95
##	2396	-0.6499	0	0.6499	96

##	2397	0.5214	0	0.5214	97
##	2398	0.4550	0	0.4550	98
##	2399	-0.3196	0	0.3196	99
##	2400	0.1360	0	0.1360	100
##	2401	18.8286	0	18.8286	1
##	2402	-18.4718	0	18.4718	2
##	2403	18.2603	0	18.2603	3
##	2404	-17.7663	0	17.7663	4
##	2405	-17.5766	0	17.5766	5
##	2406	17.2531	0	17.2531	6
##	2407	16.9200	0	16.9200	7
##	2408	-16.6472	0	16.6472	8
##	2409	16.5276	0	16.5276	9
##	2410	-16.2386	0	16.2386	10
##	2411	16.0791	0	16.0791	11
##	2412	-15.5050	0	15.5050	12
##	2413	-15.2169	0	15.2169	13
##	2414	15.1562	0	15.1562	14
##	2415	14.6584	0	14.6584	15
##	2416	-14.6164	0	14.6164	16
##	2417	14.3401	0	14.3401	17
##	2418	-14.1898	0	14.1898	18
##	2419	-13.7262	0	13.7262	19
##	2420	13.5322	0	13.5322	20
##	2421	-13.4325	0	13.4325	21
##	2422	13.4288	0	13.4288	22
##	2423	12.9409	0	12.9409	23
##	2424	-12.7623	0	12.7623	24
##	2425	12.4809	0	12.4809	25
##	2426	-12.3558	0	12.3558	26
##	2427	12.2063	0	12.2063	27
##	2428	-12.0043	0	12.0043	28
##	2429	-11.7829	0	11.7829	29
##	2430	11.7653	0	11.7653	30
##	2431	11.4630	0	11.4630	31
##	2432	-11.3121	0	11.3121	32
##	2433	11.2669	0	11.2669	33
##	2434	11.0733	0	11.0733	34
##	2435	-10.9033	0	10.9033	35
##	2436	-10.6398	0	10.6398	36
##	2437	10.4479	0	10.4479	37
##	2438	-10.1216	0	10.1216	38
##	2439	9.9586	0	9.9586	39
##	2440	-9.8933	0	9.8933	40
##	2441	9.7735	0	9.7735	41
##	2442	-9.4472	0	9.4472	42
##	2443	9.4066	0	9.4066	43
##	2444	-9.2340	0	9.2340	44
##	2445	9.2075	0	9.2075	45
##	2446	-8.9704	0	8.9704	46
##	2447	8.9494	0	8.9494	47
##	2448	-8.6678	0	8.6678	48
##	2449	8.2261	0	8.2261	49
##	2450	-8.1244	0	8.1244	50

##	2451	7.9763	0	7.9763	51
##	2452	-7.8103	0	7.8103	52
##	2453	7.7445	0	7.7445	53
##	2454	-7.4788	0	7.4788	54
##	2455	7.2940	0	7.2940	55
##	2456	7.1069	0	7.1069	56
##	2457	-7.0506	0	7.0506	57
##	2458	-6.8378	0	6.8378	58
##	2459	6.6512	0	6.6512	59
##	2460	-6.4596	0	6.4596	60
##	2461	6.4586	0	6.4586	61
##	2462	6.0158	0	6.0158	62
##	2463	-6.0021	0	6.0021	63
##	2464	-5.7829	0	5.7829	64
##	2465	5.6861	0	5.6861	65
##	2466	5.4423	0	5.4423	66
##	2467	-5.3196	0	5.3196	67
##	2468	5.2708	0	5.2708	68
##	2469	-5.1589	0	5.1589	69
##	2470	-4.9544	0	4.9544	70
##	2471	-4.5457	0	4.5457	71
##	2472	4.5429	0	4.5429	72
##	2473	-4.3713	0	4.3713	73
##	2474	4.2351	0	4.2351	74
##	2475	-3.9342	0	3.9342	75
##	2476	3.8243	0	3.8243	76
##	2477	-3.7155	0	3.7155	77
##	2478	3.5884	0	3.5884	78
##	2479	-3.2298	0	3.2298	79
##	2480	3.1805	0	3.1805	80
##	2481	-3.0537	0	3.0537	81
##	2482	2.8599	0	2.8599	82
##	2483	2.5475	0	2.5475	83
##	2484	-2.5113	0	2.5113	84
##	2485	2.3515	0	2.3515	85
##	2486	-2.1731	0	2.1731	86
##	2487	-2.0742	0	2.0742	87
##	2488	-1.9140	0	1.9140	88
##	2489	1.8290	0	1.8290	89
##	2490	1.5312	0	1.5312	90
##	2491	1.2802	0	1.2802	91
##	2492	-1.2698	0	1.2698	92
##	2493	-1.0324	0	1.0324	93
##	2494	0.9219	0	0.9219	94
##	2495	-0.8312	0	0.8312	95
##	2496	0.7115	0	0.7115	96
##	2497	-0.5891	0	0.5891	97
##	2498	0.4998	0	0.4998	98
##	2499	0.2724	0	0.2724	99
##	2500	-0.0636	0	0.0636	100
##	2501	20.3239	0	20.3239	1
##	2502	-19.5720	0	19.5720	2
##	2503	19.0146	0	19.0146	3
##	2504	-18.6102	0	18.6102	4

##	2505	17.9366	0	17.9366	5
##	2506	-17.6313	0	17.6313	6
##	2507	17.5194	0	17.5194	7
##	2508	-16.7744	0	16.7744	8
##	2509	-16.3788	0	16.3788	9
##	2510	16.3544	0	16.3544	10
##	2511	-16.0903	0	16.0903	11
##	2512	16.0900	0	16.0900	12
##	2513	15.5138	0	15.5138	13
##	2514	-15.4814	0	15.4814	14
##	2515	15.1051	0	15.1051	15
##	2516	-14.8222	0	14.8222	16
##	2517	-14.5990	0	14.5990	17
##	2518	14.3929	0	14.3929	18
##	2519	-14.2019	0	14.2019	19
##	2520	-13.6643	0	13.6643	20
##	2521	13.6566	0	13.6566	21
##	2522	13.3985	0	13.3985	22
##	2523	-13.2670	0	13.2670	23
##	2524	13.0792	0	13.0792	24
##	2525	-13.0686	0	13.0686	25
##	2526	12.4708	0	12.4708	26
##	2527	-12.3890	0	12.3890	27
##	2528	12.1090	0	12.1090	28
##	2529	11.9516	0	11.9516	29
##	2530	-11.7940	0	11.7940	30
##	2531	11.4181	0	11.4181	31
##	2532	-11.3295	0	11.3295	32
##	2533	11.2567	0	11.2567	33
##	2534	-10.9518	0	10.9518	34
##	2535	10.7339	0	10.7339	35
##	2536	-10.6362	0	10.6362	36
##	2537	10.4056	0	10.4056	37
##	2538	-10.3047	0	10.3047	38
##	2539	10.0357	0	10.0357	39
##	2540	-9.8974	0	9.8974	40
##	2541	-9.7505	0	9.7505	41
##	2542	9.6676	0	9.6676	42
##	2543	9.3560	0	9.3560	43
##	2544	9.1463	0	9.1463	44
##	2545	-9.0444	0	9.0444	45
##	2546	8.6673	0	8.6673	46
##	2547	8.5692	0	8.5692	47
##	2548	-8.5593	0	8.5593	48
##	2549	-8.2844	0	8.2844	49
##	2550	-7.8472	0	7.8472	50
##	2551	7.7084	0	7.7084	51
##	2552	-7.7016	0	7.7016	52
##	2553	7.3217	0	7.3217	53
##	2554	-7.2711	0	7.2711	54
##	2555	-7.1229	0	7.1229	55
##	2556	7.1198	0	7.1198	56
##	2557	6.9087	0	6.9087	57
##	2558	-6.8796	0	6.8796	58

##	2559	6.6365	0	6.6365	59
##	2560	6.3500	0	6.3500	60
##	2561	-6.3245	0	6.3245	61
##	2562	-6.2245	0	6.2245	62
##	2563	6.0612	0	6.0612	63
##	2564	-5.9545	0	5.9545	64
##	2565	-5.5473	0	5.5473	65
##	2566	5.4471	0	5.4471	66
##	2567	5.2892	0	5.2892	67
##	2568	-5.2867	0	5.2867	68
##	2569	4.9071	0	4.9071	69
##	2570	-4.6450	0	4.6450	70
##	2571	4.5119	0	4.5119	71
##	2572	-4.4250	0	4.4250	72
##	2573	4.2917	0	4.2917	73
##	2574	-4.1387	0	4.1387	74
##	2575	-3.9260	0	3.9260	75
##	2576	3.8809	0	3.8809	76
##	2577	-3.5876	0	3.5876	77
##	2578	3.5142	0	3.5142	78
##	2579	3.4274	0	3.4274	79
##	2580	-3.4014	0	3.4014	80
##	2581	-3.2380	0	3.2380	81
##	2582	3.1007	0	3.1007	82
##	2583	2.7771	0	2.7771	83
##	2584	2.3969	0	2.3969	84
##	2585	-2.3965	0	2.3965	85
##	2586	-2.1018	0	2.1018	86
##	2587	1.9958	0	1.9958	87
##	2588	1.7838	0	1.7838	88
##	2589	-1.7438	0	1.7438	89
##	2590	-1.4701	0	1.4701	90
##	2591	-1.3791	0	1.3791	91
##	2592	1.3135	0	1.3135	92
##	2593	1.1906	0	1.1906	93
##	2594	-0.8499	0	0.8499	94
##	2595	0.5534	0	0.5534	95
##	2596	-0.5225	0	0.5225	96
##	2597	0.3843	0	0.3843	97
##	2598	-0.2856	0	0.2856	98
##	2599	0.2699	0	0.2699	99
##	2600	0.0313	0	0.0313	100
##	2601	-18.9583	0	18.9583	1
##	2602	18.6031	0	18.6031	2
##	2603	-18.2910	0	18.2910	3
##	2604	18.0315	0	18.0315	4
##	2605	-17.6433	0	17.6433	5
##	2606	17.4553	0	17.4553	6
##	2607	-17.2362	0	17.2362	7
##	2608	17.1723	0	17.1723	8
##	2609	-16.7272	0	16.7272	9
##	2610	16.5718	0	16.5718	10
##	2611	-16.2954	0	16.2954	11
##	2612	15.9604	0	15.9604	12

##	2613	-15.5678	0	15.5678	13
##	2614	15.3190	0	15.3190	14
##	2615	-14.7226	0	14.7226	15
##	2616	14.6453	0	14.6453	16
##	2617	-14.3044	0	14.3044	17
##	2618	14.2824	0	14.2824	18
##	2619	-14.0121	0	14.0121	19
##	2620	14.0065	0	14.0065	20
##	2621	13.5077	0	13.5077	21
##	2622	13.3763	0	13.3763	22
##	2623	-13.3464	0	13.3464	23
##	2624	13.0839	0	13.0839	24
##	2625	-12.9897	0	12.9897	25
##	2626	-12.8954	0	12.8954	26
##	2627	12.6302	0	12.6302	27
##	2628	-12.4914	0	12.4914	28
##	2629	12.0481	0	12.0481	29
##	2630	-11.8075	0	11.8075	30
##	2631	11.7008	0	11.7008	31
##	2632	11.3998	0	11.3998	32
##	2633	-11.3126	0	11.3126	33
##	2634	-10.9414	0	10.9414	34
##	2635	10.8226	0	10.8226	35
##	2636	-10.5941	0	10.5941	36
##	2637	-10.3289	0	10.3289	37
##	2638	10.3102	0	10.3102	38
##	2639	10.1334	0	10.1334	39
##	2640	9.9579	0	9.9579	40
##	2641	-9.9255	0	9.9255	41
##	2642	-9.5162	0	9.5162	42
##	2643	9.4271	0	9.4271	43
##	2644	-9.1753	0	9.1753	44
##	2645	9.1363	0	9.1363	45
##	2646	-8.8171	0	8.8171	46
##	2647	8.5930	0	8.5930	47
##	2648	-8.5902	0	8.5902	48
##	2649	8.5218	0	8.5218	49
##	2650	-8.4499	0	8.4499	50
##	2651	-8.1182	0	8.1182	51
##	2652	8.0793	0	8.0793	52
##	2653	7.8941	0	7.8941	53
##	2654	7.5248	0	7.5248	54
##	2655	-7.5245	0	7.5245	55
##	2656	7.2647	0	7.2647	56
##	2657	6.9863	0	6.9863	57
##	2658	-6.9824	0	6.9824	58
##	2659	-6.6551	0	6.6551	59
##	2660	6.5900	0	6.5900	60
##	2661	6.3835	0	6.3835	61
##	2662	-6.3656	0	6.3656	62
##	2663	-6.1634	0	6.1634	63
##	2664	-5.8033	0	5.8033	64
##	2665	5.6881	0	5.6881	65
##	2666	-5.6153	0	5.6153	66

## 2667	5.4862	0	5.4862	67
## 2668	5.2349	0	5.2349	68
## 2669	-5.2052	0	5.2052	69
## 2670	-4.8930	0	4.8930	70
## 2671	4.6326	0	4.6326	71
## 2672	4.4694	0	4.4694	72
## 2673	-4.4194	0	4.4194	73
## 2674	4.0640	0	4.0640	74
## 2675	-3.9343	0	3.9343	75
## 2676	3.8082	0	3.8082	76
## 2677	-3.6928	0	3.6928	77
## 2678	-3.5827	0	3.5827	78
## 2679	3.3726	0	3.3726	79
## 2680	3.2170	0	3.2170	80
## 2681	-3.1562	0	3.1562	81
## 2682	2.9421	0	2.9421	82
## 2683	-2.7332	0	2.7332	83
## 2684	2.5695	0	2.5695	84
## 2685	-2.4772	0	2.4772	85
## 2686	2.3086	0	2.3086	86
## 2687	2.0834	0	2.0834	87
## 2688	-2.0751	0	2.0751	88
## 2689	-1.9104	0	1.9104	89
## 2690	1.5204	0	1.5204	90
## 2691	-1.4026	0	1.4026	91
## 2692	1.1704	0	1.1704	92
## 2693	-1.1406	0	1.1406	93
## 2694	0.9326	0	0.9326	94
## 2695	-0.8274	0	0.8274	95
## 2696	0.5697	0	0.5697	96
## 2697	-0.5424	0	0.5424	97
## 2698	-0.2474	0	0.2474	98
## 2699	0.1836	0	0.1836	99
## 2700	-0.0693	0	0.0693	100
## 2701	19.5221	0	19.5221	1
## 2702	-19.4676	0	19.4676	2
## 2703	18.8222	0	18.8222	3
## 2704	-18.5842	0	18.5842	4
## 2705	-18.0253	0	18.0253	5
## 2706	17.9797	0	17.9797	6
## 2707	-17.3507	0	17.3507	7
## 2708	-17.0445	0	17.0445	8
## 2709	16.8290	0	16.8290	9
## 2710	-16.3717	0	16.3717	10
## 2711	16.1859	0	16.1859	11
## 2712	-16.0325	0	16.0325	12
## 2713	15.8014	0	15.8014	13
## 2714	-15.3206	0	15.3206	14
## 2715	15.2832	0	15.2832	15
## 2716	14.6344	0	14.6344	16
## 2717	-14.6130	0	14.6130	17
## 2718	14.3648	0	14.3648	18
## 2719	-14.1324	0	14.1324	19
## 2720	-13.8454	0	13.8454	20

## 2721	13.8267	0	13.8267	21
## 2722	13.5087	0	13.5087	22
## 2723	-13.3886	0	13.3886	23
## 2724	13.3039	0	13.3039	24
## 2725	12.8566	0	12.8566	25
## 2726	12.7696	0	12.7696	26
## 2727	-12.6746	0	12.6746	27
## 2728	-12.5220	0	12.5220	28
## 2729	12.4048	0	12.4048	29
## 2730	-12.2343	0	12.2343	30
## 2731	11.9159	0	11.9159	31
## 2732	-11.8374	0	11.8374	32
## 2733	11.5236	0	11.5236	33
## 2734	-11.1755	0	11.1755	34
## 2735	11.1590	0	11.1590	35
## 2736	-10.8797	0	10.8797	36
## 2737	10.6810	0	10.6810	37
## 2738	-10.4314	0	10.4314	38
## 2739	-10.2772	0	10.2772	39
## 2740	10.1837	0	10.1837	40
## 2741	9.9303	0	9.9303	41
## 2742	-9.6636	0	9.6636	42
## 2743	-9.5516	0	9.5516	43
## 2744	9.4552	0	9.4552	44
## 2745	9.0231	0	9.0231	45
## 2746	-8.8735	0	8.8735	46
## 2747	-8.6574	0	8.6574	47
## 2748	8.5908	0	8.5908	48
## 2749	8.3141	0	8.3141	49
## 2750	-8.2294	0	8.2294	50
## 2751	8.0580	0	8.0580	51
## 2752	-7.9198	0	7.9198	52
## 2753	-7.6707	0	7.6707	53
## 2754	7.5954	0	7.5954	54
## 2755	7.4268	0	7.4268	55
## 2756	-7.4164	0	7.4164	56
## 2757	6.9357	0	6.9357	57
## 2758	-6.8442	0	6.8442	58
## 2759	-6.7864	0	6.7864	59
## 2760	-6.5008	0	6.5008	60
## 2761	6.3939	0	6.3939	61
## 2762	-6.2085	0	6.2085	62
## 2763	6.1044	0	6.1044	63
## 2764	5.7475	0	5.7475	64
## 2765	-5.7398	0	5.7398	65
## 2766	5.5187	0	5.5187	66
## 2767	-5.3254	0	5.3254	67
## 2768	4.9652	0	4.9652	68
## 2769	4.8866	0	4.8866	69
## 2770	-4.8640	0	4.8640	70
## 2771	-4.5508	0	4.5508	71
## 2772	4.5394	0	4.5394	72
## 2773	4.3102	0	4.3102	73
## 2774	-4.1241	0	4.1241	74

## 2775	3.9312	0	3.9312	75
## 2776	-3.7456	0	3.7456	76
## 2777	3.6465	0	3.6465	77
## 2778	-3.3629	0	3.3629	78
## 2779	-3.1812	0	3.1812	79
## 2780	3.1787	0	3.1787	80
## 2781	2.8529	0	2.8529	81
## 2782	-2.6874	0	2.6874	82
## 2783	-2.5079	0	2.5079	83
## 2784	2.4528	0	2.4528	84
## 2785	2.2889	0	2.2889	85
## 2786	-2.2561	0	2.2561	86
## 2787	2.1940	0	2.1940	87
## 2788	-1.9728	0	1.9728	88
## 2789	-1.8123	0	1.8123	89
## 2790	1.6170	0	1.6170	90
## 2791	-1.5251	0	1.5251	91
## 2792	1.2229	0	1.2229	92
## 2793	-1.0487	0	1.0487	93
## 2794	-0.9308	0	0.9308	94
## 2795	0.9241	0	0.9241	95
## 2796	-0.7077	0	0.7077	96
## 2797	-0.5260	0	0.5260	97
## 2798	0.3820	0	0.3820	98
## 2799	0.1529	0	0.1529	99
## 2800	0.0250	0	0.0250	100
## 2801	19.1339	0	19.1339	1
## 2802	-18.7181	0	18.7181	2
## 2803	-18.3869	0	18.3869	3
## 2804	18.2153	0	18.2153	4
## 2805	17.5786	0	17.5786	5
## 2806	-17.1942	0	17.1942	6
## 2807	-16.8487	0	16.8487	7
## 2808	16.7758	0	16.7758	8
## 2809	16.4984	0	16.4984	9
## 2810	-16.2709	0	16.2709	10
## 2811	15.8696	0	15.8696	11
## 2812	-15.7928	0	15.7928	12
## 2813	-15.2381	0	15.2381	13
## 2814	15.1708	0	15.1708	14
## 2815	15.0109	0	15.0109	15
## 2816	-14.8596	0	14.8596	16
## 2817	14.6580	0	14.6580	17
## 2818	-14.6186	0	14.6186	18
## 2819	-14.1969	0	14.1969	19
## 2820	14.1246	0	14.1246	20
## 2821	-13.6762	0	13.6762	21
## 2822	13.5719	0	13.5719	22
## 2823	-13.3041	0	13.3041	23
## 2824	13.1020	0	13.1020	24
## 2825	-12.7011	0	12.7011	25
## 2826	12.6553	0	12.6553	26
## 2827	-12.4229	0	12.4229	27
## 2828	12.0197	0	12.0197	28

##	2829	-11.8673	0	11.8673	29
##	2830	11.8002	0	11.8002	30
##	2831	11.7087	0	11.7087	31
##	2832	-11.5487	0	11.5487	32
##	2833	11.2960	0	11.2960	33
##	2834	-11.2784	0	11.2784	34
##	2835	-10.9995	0	10.9995	35
##	2836	10.7716	0	10.7716	36
##	2837	-10.4104	0	10.4104	37
##	2838	10.2608	0	10.2608	38
##	2839	-10.2476	0	10.2476	39
##	2840	9.8786	0	9.8786	40
##	2841	-9.6231	0	9.6231	41
##	2842	9.5230	0	9.5230	42
##	2843	-9.3609	0	9.3609	43
##	2844	9.1569	0	9.1569	44
##	2845	-9.1426	0	9.1426	45
##	2846	8.8147	0	8.8147	46
##	2847	-8.7681	0	8.7681	47
##	2848	8.6535	0	8.6535	48
##	2849	-8.5667	0	8.5667	49
##	2850	8.2528	0	8.2528	50
##	2851	-7.8837	0	7.8837	51
##	2852	-7.7256	0	7.7256	52
##	2853	7.6453	0	7.6453	53
##	2854	-7.4632	0	7.4632	54
##	2855	7.4112	0	7.4112	55
##	2856	7.2764	0	7.2764	56
##	2857	-7.0905	0	7.0905	57
##	2858	6.8689	0	6.8689	58
##	2859	-6.6013	0	6.6013	59
##	2860	6.4713	0	6.4713	60
##	2861	-6.3236	0	6.3236	61
##	2862	6.2739	0	6.2739	62
##	2863	-6.0196	0	6.0196	63
##	2864	5.8647	0	5.8647	64
##	2865	-5.7147	0	5.7147	65
##	2866	-5.4955	0	5.4955	66
##	2867	5.3823	0	5.3823	67
##	2868	-5.2286	0	5.2286	68
##	2869	5.0891	0	5.0891	69
##	2870	-4.7211	0	4.7211	70
##	2871	4.7007	0	4.7007	71
##	2872	4.4868	0	4.4868	72
##	2873	4.3889	0	4.3889	73
##	2874	-4.2278	0	4.2278	74
##	2875	-4.0890	0	4.0890	75
##	2876	3.8490	0	3.8490	76
##	2877	-3.6801	0	3.6801	77
##	2878	3.5213	0	3.5213	78
##	2879	-3.2920	0	3.2920	79
##	2880	3.1429	0	3.1429	80
##	2881	-3.0081	0	3.0081	81
##	2882	2.8654	0	2.8654	82

##	2883	-2.8115	0	2.8115	83
##	2884	2.6080	0	2.6080	84
##	2885	-2.4842	0	2.4842	85
##	2886	2.2534	0	2.2534	86
##	2887	-2.1470	0	2.1470	87
##	2888	1.9002	0	1.9002	88
##	2889	-1.7640	0	1.7640	89
##	2890	1.7262	0	1.7262	90
##	2891	1.3162	0	1.3162	91
##	2892	-1.2441	0	1.2441	92
##	2893	1.1201	0	1.1201	93
##	2894	-1.0872	0	1.0872	94
##	2895	0.7957	0	0.7957	95
##	2896	-0.6654	0	0.6654	96
##	2897	0.5466	0	0.5466	97
##	2898	-0.4688	0	0.4688	98
##	2899	0.2098	0	0.2098	99
##	2900	0.0502	0	0.0502	100
##	2901	-19.1072	0	19.1072	1
##	2902	18.9660	0	18.9660	2
##	2903	-18.4156	0	18.4156	3
##	2904	18.3397	0	18.3397	4
##	2905	17.9530	0	17.9530	5
##	2906	-17.5685	0	17.5685	6
##	2907	16.9949	0	16.9949	7
##	2908	-16.9791	0	16.9791	8
##	2909	-16.6814	0	16.6814	9
##	2910	16.5271	0	16.5271	10
##	2911	16.3613	0	16.3613	11
##	2912	-15.9574	0	15.9574	12
##	2913	-15.5678	0	15.5678	13
##	2914	15.5593	0	15.5593	14
##	2915	-15.2977	0	15.2977	15
##	2916	14.7923	0	14.7923	16
##	2917	-14.6663	0	14.6663	17
##	2918	14.5787	0	14.5787	18
##	2919	-13.9572	0	13.9572	19
##	2920	13.8937	0	13.8937	20
##	2921	-13.6634	0	13.6634	21
##	2922	13.5099	0	13.5099	22
##	2923	-13.3191	0	13.3191	23
##	2924	13.2807	0	13.2807	24
##	2925	-13.0314	0	13.0314	25
##	2926	-12.6908	0	12.6908	26
##	2927	12.6868	0	12.6868	27
##	2928	12.3322	0	12.3322	28
##	2929	-12.1242	0	12.1242	29
##	2930	11.9639	0	11.9639	30
##	2931	-11.6332	0	11.6332	31
##	2932	11.4870	0	11.4870	32
##	2933	-11.2549	0	11.2549	33
##	2934	11.2266	0	11.2266	34
##	2935	11.0377	0	11.0377	35
##	2936	10.6817	0	10.6817	36

##	2937	-10.6272	0	10.6272	37
##	2938	10.2393	0	10.2393	38
##	2939	-10.2278	0	10.2278	39
##	2940	-9.8154	0	9.8154	40
##	2941	9.7123	0	9.7123	41
##	2942	-9.5512	0	9.5512	42
##	2943	-9.3175	0	9.3175	43
##	2944	9.1576	0	9.1576	44
##	2945	-9.0792	0	9.0792	45
##	2946	8.7391	0	8.7391	46
##	2947	-8.6674	0	8.6674	47
##	2948	8.3892	0	8.3892	48
##	2949	-8.3833	0	8.3833	49
##	2950	8.2452	0	8.2452	50
##	2951	-8.0940	0	8.0940	51
##	2952	-7.9633	0	7.9633	52
##	2953	7.7854	0	7.7854	53
##	2954	-7.6717	0	7.6717	54
##	2955	7.6028	0	7.6028	55
##	2956	7.3164	0	7.3164	56
##	2957	-7.2617	0	7.2617	57
##	2958	-6.9438	0	6.9438	58
##	2959	6.8389	0	6.8389	59
##	2960	6.6460	0	6.6460	60
##	2961	-6.3539	0	6.3539	61
##	2962	6.1897	0	6.1897	62
##	2963	-6.1064	0	6.1064	63
##	2964	5.9685	0	5.9685	64
##	2965	-5.7110	0	5.7110	65
##	2966	5.5793	0	5.5793	66
##	2967	-5.4701	0	5.4701	67
##	2968	5.3602	0	5.3602	68
##	2969	-5.0700	0	5.0700	69
##	2970	5.0495	0	5.0495	70
##	2971	-4.9729	0	4.9729	71
##	2972	4.8271	0	4.8271	72
##	2973	4.5249	0	4.5249	73
##	2974	-4.3469	0	4.3469	74
##	2975	-4.1125	0	4.1125	75
##	2976	3.9991	0	3.9991	76
##	2977	-3.7896	0	3.7896	77
##	2978	3.5998	0	3.5998	78
##	2979	3.5462	0	3.5462	79
##	2980	-3.4154	0	3.4154	80
##	2981	3.2141	0	3.2141	81
##	2982	-2.9953	0	2.9953	82
##	2983	2.9286	0	2.9286	83
##	2984	-2.8070	0	2.8070	84
##	2985	2.6203	0	2.6203	85
##	2986	-2.4909	0	2.4909	86
##	2987	2.3858	0	2.3858	87
##	2988	-2.3591	0	2.3591	88
##	2989	1.8059	0	1.8059	89
##	2990	-1.6587	0	1.6587	90

##	2991	-1.4138	0	1.4138	91
##	2992	1.2328	0	1.2328	92
##	2993	-1.1856	0	1.1856	93
##	2994	-1.0411	0	1.0411	94
##	2995	0.9464	0	0.9464	95
##	2996	-0.5830	0	0.5830	96
##	2997	0.4359	0	0.4359	97
##	2998	0.2347	0	0.2347	98
##	2999	-0.1761	0	0.1761	99
##	3000	-0.0112	0	0.0112	100
##	3001	-19.1958	0	19.1958	1
##	3002	18.7012	0	18.7012	2
##	3003	-18.2218	0	18.2218	3
##	3004	18.1411	0	18.1411	4
##	3005	-17.7509	0	17.7509	5
##	3006	17.5771	0	17.5771	6
##	3007	-17.1955	0	17.1955	7
##	3008	16.6227	0	16.6227	8
##	3009	-16.4169	0	16.4169	9
##	3010	15.8821	0	15.8821	10
##	3011	-15.8242	0	15.8242	11
##	3012	15.6107	0	15.6107	12
##	3013	15.3161	0	15.3161	13
##	3014	-15.2611	0	15.2611	14
##	3015	14.9819	0	14.9819	15
##	3016	-14.8354	0	14.8354	16
##	3017	14.5657	0	14.5657	17
##	3018	-14.1838	0	14.1838	18
##	3019	13.9491	0	13.9491	19
##	3020	-13.8011	0	13.8011	20
##	3021	-13.4567	0	13.4567	21
##	3022	13.2631	0	13.2631	22
##	3023	12.9913	0	12.9913	23
##	3024	-12.9815	0	12.9815	24
##	3025	12.6410	0	12.6410	25
##	3026	-12.3081	0	12.3081	26
##	3027	12.2573	0	12.2573	27
##	3028	-11.9599	0	11.9599	28
##	3029	11.9040	0	11.9040	29
##	3030	-11.6548	0	11.6548	30
##	3031	11.4559	0	11.4559	31
##	3032	-11.2074	0	11.2074	32
##	3033	11.1807	0	11.1807	33
##	3034	-10.8165	0	10.8165	34
##	3035	-10.6961	0	10.6961	35
##	3036	10.6680	0	10.6680	36
##	3037	-10.4001	0	10.4001	37
##	3038	10.2573	0	10.2573	38
##	3039	10.0019	0	10.0019	39
##	3040	-9.9209	0	9.9209	40
##	3041	-9.7110	0	9.7110	41
##	3042	-9.5594	0	9.5594	42
##	3043	9.4190	0	9.4190	43
##	3044	9.1269	0	9.1269	44

## 3045	-8.9636	0	8.9636	45
## 3046	8.8064	0	8.8064	46
## 3047	-8.6536	0	8.6536	47
## 3048	8.4603	0	8.4603	48
## 3049	-8.2767	0	8.2767	49
## 3050	8.1879	0	8.1879	50
## 3051	-8.1158	0	8.1158	51
## 3052	7.6656	0	7.6656	52
## 3053	-7.6520	0	7.6520	53
## 3054	7.3546	0	7.3546	54
## 3055	-7.2151	0	7.2151	55
## 3056	7.1447	0	7.1447	56
## 3057	-6.8690	0	6.8690	57
## 3058	6.7758	0	6.7758	58
## 3059	6.6383	0	6.6383	59
## 3060	-6.6254	0	6.6254	60
## 3061	6.2538	0	6.2538	61
## 3062	-6.2177	0	6.2177	62
## 3063	6.0022	0	6.0022	63
## 3064	-5.7679	0	5.7679	64
## 3065	-5.6614	0	5.6614	65
## 3066	5.6071	0	5.6071	66
## 3067	5.4185	0	5.4185	67
## 3068	-5.2947	0	5.2947	68
## 3069	5.1772	0	5.1772	69
## 3070	-5.0619	0	5.0619	70
## 3071	4.8265	0	4.8265	71
## 3072	-4.7030	0	4.7030	72
## 3073	-4.3360	0	4.3360	73
## 3074	4.2476	0	4.2476	74
## 3075	-4.1898	0	4.1898	75
## 3076	4.0072	0	4.0072	76
## 3077	-3.8268	0	3.8268	77
## 3078	3.7267	0	3.7267	78
## 3079	-3.4838	0	3.4838	79
## 3080	3.3839	0	3.3839	80
## 3081	-3.2283	0	3.2283	81
## 3082	3.1840	0	3.1840	82
## 3083	2.9340	0	2.9340	83
## 3084	2.5620	0	2.5620	84
## 3085	-2.5619	0	2.5619	85
## 3086	-2.4300	0	2.4300	86
## 3087	2.1859	0	2.1859	87
## 3088	2.0386	0	2.0386	88
## 3089	-1.9014	0	1.9014	89
## 3090	1.6601	0	1.6601	90
## 3091	-1.4692	0	1.4692	91
## 3092	-1.1741	0	1.1741	92
## 3093	1.0648	0	1.0648	93
## 3094	-0.9733	0	0.9733	94
## 3095	0.7602	0	0.7602	95
## 3096	-0.7567	0	0.7567	96
## 3097	0.5635	0	0.5635	97
## 3098	-0.5407	0	0.5407	98

##	3099	0.3968	0	0.3968	99
##	3100	-0.2278	0	0.2278	100
##	3101	19.2690	0	19.2690	1
##	3102	-18.8531	0	18.8531	2
##	3103	18.2976	0	18.2976	3
##	3104	-18.0166	0	18.0166	4
##	3105	17.7171	0	17.7171	5
##	3106	-17.4713	0	17.4713	6
##	3107	16.9954	0	16.9954	7
##	3108	-16.8986	0	16.8986	8
##	3109	16.3910	0	16.3910	9
##	3110	-16.0767	0	16.0767	10
##	3111	-15.7840	0	15.7840	11
##	3112	15.6745	0	15.6745	12
##	3113	-15.3612	0	15.3612	13
##	3114	15.1422	0	15.1422	14
##	3115	14.8632	0	14.8632	15
##	3116	-14.6444	0	14.6444	16
##	3117	14.2227	0	14.2227	17
##	3118	-14.0382	0	14.0382	18
##	3119	-13.8149	0	13.8149	19
##	3120	13.6753	0	13.6753	20
##	3121	-13.6132	0	13.6132	21
##	3122	13.4344	0	13.4344	22
##	3123	-13.0409	0	13.0409	23
##	3124	12.8622	0	12.8622	24
##	3125	-12.8029	0	12.8029	25
##	3126	12.6116	0	12.6116	26
##	3127	12.3670	0	12.3670	27
##	3128	11.9279	0	11.9279	28
##	3129	-11.8386	0	11.8386	29
##	3130	11.6279	0	11.6279	30
##	3131	-11.3414	0	11.3414	31
##	3132	-11.2606	0	11.2606	32
##	3133	11.1317	0	11.1317	33
##	3134	-10.8227	0	10.8227	34
##	3135	10.6720	0	10.6720	35
##	3136	-10.5813	0	10.5813	36
##	3137	10.4569	0	10.4569	37
##	3138	10.2421	0	10.2421	38
##	3139	-10.2137	0	10.2137	39
##	3140	10.0541	0	10.0541	40
##	3141	-9.9317	0	9.9317	41
##	3142	-9.5013	0	9.5013	42
##	3143	9.4456	0	9.4456	43
##	3144	-9.0894	0	9.0894	44
##	3145	-8.7882	0	8.7882	45
##	3146	8.7799	0	8.7799	46
##	3147	-8.5660	0	8.5660	47
##	3148	8.5258	0	8.5258	48
##	3149	8.2543	0	8.2543	49
##	3150	-8.0590	0	8.0590	50
##	3151	8.0111	0	8.0111	51
##	3152	-7.8039	0	7.8039	52

##	3153	-7.6480	0	7.6480	53
##	3154	7.5433	0	7.5433	54
##	3155	-7.2600	0	7.2600	55
##	3156	7.1360	0	7.1360	56
##	3157	6.8241	0	6.8241	57
##	3158	-6.6903	0	6.6903	58
##	3159	6.5644	0	6.5644	59
##	3160	-6.4063	0	6.4063	60
##	3161	6.1415	0	6.1415	61
##	3162	6.0319	0	6.0319	62
##	3163	-5.9904	0	5.9904	63
##	3164	5.7534	0	5.7534	64
##	3165	-5.6392	0	5.6392	65
##	3166	5.4919	0	5.4919	66
##	3167	-5.3144	0	5.3144	67
##	3168	4.9562	0	4.9562	68
##	3169	-4.8805	0	4.8805	69
##	3170	4.6471	0	4.6471	70
##	3171	-4.5781	0	4.5781	71
##	3172	-4.2683	0	4.2683	72
##	3173	4.2559	0	4.2559	73
##	3174	4.0036	0	4.0036	74
##	3175	-3.9191	0	3.9191	75
##	3176	-3.7866	0	3.7866	76
##	3177	3.6013	0	3.6013	77
##	3178	-3.4475	0	3.4475	78
##	3179	3.3220	0	3.3220	79
##	3180	3.2207	0	3.2207	80
##	3181	-3.1117	0	3.1117	81
##	3182	2.9330	0	2.9330	82
##	3183	-2.9177	0	2.9177	83
##	3184	-2.4988	0	2.4988	84
##	3185	2.4681	0	2.4681	85
##	3186	2.2355	0	2.2355	86
##	3187	-2.1917	0	2.1917	87
##	3188	-1.9622	0	1.9622	88
##	3189	1.8062	0	1.8062	89
##	3190	-1.7637	0	1.7637	90
##	3191	1.5585	0	1.5585	91
##	3192	1.3104	0	1.3104	92
##	3193	-1.2179	0	1.2179	93
##	3194	1.0611	0	1.0611	94
##	3195	-0.8740	0	0.8740	95
##	3196	0.8322	0	0.8322	96
##	3197	-0.3177	0	0.3177	97
##	3198	0.2845	0	0.2845	98
##	3199	0.2310	0	0.2310	99
##	3200	-0.1815	0	0.1815	100
##	3201	19.7652	0	19.7652	1
##	3202	-19.2701	0	19.2701	2
##	3203	18.7446	0	18.7446	3
##	3204	-18.0457	0	18.0457	4
##	3205	17.9186	0	17.9186	5
##	3206	-17.3319	0	17.3319	6

##	3207	-16.9205	0	16.9205	7
##	3208	16.9147	0	16.9147	8
##	3209	16.5803	0	16.5803	9
##	3210	-16.4625	0	16.4625	10
##	3211	16.1143	0	16.1143	11
##	3212	-15.9563	0	15.9563	12
##	3213	15.5419	0	15.5419	13
##	3214	-15.4029	0	15.4029	14
##	3215	-15.0123	0	15.0123	15
##	3216	14.8835	0	14.8835	16
##	3217	14.6035	0	14.6035	17
##	3218	-14.5687	0	14.5687	18
##	3219	14.4103	0	14.4103	19
##	3220	-13.9117	0	13.9117	20
##	3221	13.6036	0	13.6036	21
##	3222	-13.5232	0	13.5232	22
##	3223	13.5033	0	13.5033	23
##	3224	-13.2477	0	13.2477	24
##	3225	13.1704	0	13.1704	25
##	3226	12.8698	0	12.8698	26
##	3227	-12.5763	0	12.5763	27
##	3228	-12.3660	0	12.3660	28
##	3229	12.1305	0	12.1305	29
##	3230	-11.9679	0	11.9679	30
##	3231	11.5504	0	11.5504	31
##	3232	-11.4094	0	11.4094	32
##	3233	11.3507	0	11.3507	33
##	3234	10.8532	0	10.8532	34
##	3235	-10.8098	0	10.8098	35
##	3236	-10.4883	0	10.4883	36
##	3237	10.3257	0	10.3257	37
##	3238	-10.2776	0	10.2776	38
##	3239	10.0712	0	10.0712	39
##	3240	-9.9800	0	9.9800	40
##	3241	9.7899	0	9.7899	41
##	3242	9.5569	0	9.5569	42
##	3243	-9.3722	0	9.3722	43
##	3244	9.2230	0	9.2230	44
##	3245	-9.1214	0	9.1214	45
##	3246	9.0232	0	9.0232	46
##	3247	-8.8018	0	8.8018	47
##	3248	-8.4815	0	8.4815	48
##	3249	8.2658	0	8.2658	49
##	3250	-8.2399	0	8.2399	50
##	3251	8.1618	0	8.1618	51
##	3252	7.9242	0	7.9242	52
##	3253	-7.7753	0	7.7753	53
##	3254	-7.4618	0	7.4618	54
##	3255	7.2133	0	7.2133	55
##	3256	-7.1613	0	7.1613	56
##	3257	6.9827	0	6.9827	57
##	3258	-6.7487	0	6.7487	58
##	3259	6.6306	0	6.6306	59
##	3260	-6.5554	0	6.5554	60

## 3261	6.4063	0	6.4063	61
## 3262	6.2215	0	6.2215	62
## 3263	-6.1119	0	6.1119	63
## 3264	-5.8324	0	5.8324	64
## 3265	5.7077	0	5.7077	65
## 3266	5.4984	0	5.4984	66
## 3267	-5.4324	0	5.4324	67
## 3268	-5.1927	0	5.1927	68
## 3269	5.0178	0	5.0178	69
## 3270	-4.9647	0	4.9647	70
## 3271	4.7746	0	4.7746	71
## 3272	4.5832	0	4.5832	72
## 3273	-4.4471	0	4.4471	73
## 3274	-4.2562	0	4.2562	74
## 3275	4.0811	0	4.0811	75
## 3276	-3.9069	0	3.9069	76
## 3277	3.7602	0	3.7602	77
## 3278	-3.6906	0	3.6906	78
## 3279	-3.4579	0	3.4579	79
## 3280	3.2670	0	3.2670	80
## 3281	3.1676	0	3.1676	81
## 3282	3.0566	0	3.0566	82
## 3283	-3.0448	0	3.0448	83
## 3284	-2.9042	0	2.9042	84
## 3285	2.8643	0	2.8643	85
## 3286	-2.6065	0	2.6065	86
## 3287	2.3387	0	2.3387	87
## 3288	1.9819	0	1.9819	88
## 3289	-1.8106	0	1.8106	89
## 3290	1.6737	0	1.6737	90
## 3291	-1.5183	0	1.5183	91
## 3292	-1.2776	0	1.2776	92
## 3293	1.2346	0	1.2346	93
## 3294	0.9362	0	0.9362	94
## 3295	-0.9359	0	0.9359	95
## 3296	0.7232	0	0.7232	96
## 3297	-0.6049	0	0.6049	97
## 3298	0.4923	0	0.4923	98
## 3299	-0.2396	0	0.2396	99
## 3300	0.1036	0	0.1036	100
## 3301	-19.7954	0	19.7954	1
## 3302	19.0944	0	19.0944	2
## 3303	-18.8857	0	18.8857	3
## 3304	18.2391	0	18.2391	4
## 3305	-17.8029	0	17.8029	5
## 3306	17.4979	0	17.4979	6
## 3307	17.2758	0	17.2758	7
## 3308	-17.2722	0	17.2722	8
## 3309	16.4595	0	16.4595	9
## 3310	-16.3238	0	16.3238	10
## 3311	-16.1608	0	16.1608	11
## 3312	15.9692	0	15.9692	12
## 3313	15.6601	0	15.6601	13
## 3314	-15.5278	0	15.5278	14

##	3315	15.3208	0	15.3208	15
##	3316	14.9419	0	14.9419	16
##	3317	-14.9037	0	14.9037	17
##	3318	14.7293	0	14.7293	18
##	3319	-14.5779	0	14.5779	19
##	3320	-13.9998	0	13.9998	20
##	3321	-13.5629	0	13.5629	21
##	3322	13.5376	0	13.5376	22
##	3323	-12.9591	0	12.9591	23
##	3324	12.8771	0	12.8771	24
##	3325	-12.6233	0	12.6233	25
##	3326	12.6160	0	12.6160	26
##	3327	12.3000	0	12.3000	27
##	3328	-12.2854	0	12.2854	28
##	3329	-12.1614	0	12.1614	29
##	3330	11.8452	0	11.8452	30
##	3331	-11.6536	0	11.6536	31
##	3332	11.5008	0	11.5008	32
##	3333	-11.4610	0	11.4610	33
##	3334	11.3867	0	11.3867	34
##	3335	-11.3147	0	11.3147	35
##	3336	10.6955	0	10.6955	36
##	3337	10.5174	0	10.5174	37
##	3338	-10.3222	0	10.3222	38
##	3339	10.0802	0	10.0802	39
##	3340	-9.9460	0	9.9460	40
##	3341	9.7846	0	9.7846	41
##	3342	-9.5363	0	9.5363	42
##	3343	9.3956	0	9.3956	43
##	3344	9.2452	0	9.2452	44
##	3345	-9.0483	0	9.0483	45
##	3346	8.9218	0	8.9218	46
##	3347	-8.7471	0	8.7471	47
##	3348	8.7126	0	8.7126	48
##	3349	-8.3670	0	8.3670	49
##	3350	-7.9666	0	7.9666	50
##	3351	7.8257	0	7.8257	51
##	3352	-7.7329	0	7.7329	52
##	3353	7.6831	0	7.6831	53
##	3354	-7.3120	0	7.3120	54
##	3355	7.2440	0	7.2440	55
##	3356	-7.0513	0	7.0513	56
##	3357	6.9765	0	6.9765	57
##	3358	-6.7313	0	6.7313	58
##	3359	6.6798	0	6.6798	59
##	3360	-6.4930	0	6.4930	60
##	3361	6.2313	0	6.2313	61
##	3362	-6.1529	0	6.1529	62
##	3363	6.0476	0	6.0476	63
##	3364	-5.8347	0	5.8347	64
##	3365	-5.5434	0	5.5434	65
##	3366	5.4313	0	5.4313	66
##	3367	5.3132	0	5.3132	67
##	3368	-5.2592	0	5.2592	68

##	3369	5.1043	0	5.1043	69
##	3370	-5.0317	0	5.0317	70
##	3371	4.7972	0	4.7972	71
##	3372	-4.6067	0	4.6067	72
##	3373	4.3914	0	4.3914	73
##	3374	4.1745	0	4.1745	74
##	3375	-4.1336	0	4.1336	75
##	3376	-3.9680	0	3.9680	76
##	3377	3.8354	0	3.8354	77
##	3378	-3.6352	0	3.6352	78
##	3379	3.3023	0	3.3023	79
##	3380	-3.2404	0	3.2404	80
##	3381	-3.1122	0	3.1122	81
##	3382	-2.9230	0	2.9230	82
##	3383	2.9203	0	2.9203	83
##	3384	2.6581	0	2.6581	84
##	3385	-2.3862	0	2.3862	85
##	3386	-2.1700	0	2.1700	86
##	3387	2.0991	0	2.0991	87
##	3388	-1.9436	0	1.9436	88
##	3389	1.9430	0	1.9430	89
##	3390	1.8161	0	1.8161	90
##	3391	-1.3212	0	1.3212	91
##	3392	-1.1605	0	1.1605	92
##	3393	1.0700	0	1.0700	93
##	3394	-0.9271	0	0.9271	94
##	3395	0.8511	0	0.8511	95
##	3396	-0.7405	0	0.7405	96
##	3397	0.5726	0	0.5726	97
##	3398	-0.2567	0	0.2567	98
##	3399	0.0925	0	0.0925	99
##	3400	-0.0859	0	0.0859	100
##	3401	19.3120	0	19.3120	1
##	3402	-19.0716	0	19.0716	2
##	3403	18.0295	0	18.0295	3
##	3404	-18.0183	0	18.0183	4
##	3405	17.7358	0	17.7358	5
##	3406	-17.6014	0	17.6014	6
##	3407	-17.3905	0	17.3905	7
##	3408	17.1091	0	17.1091	8
##	3409	16.5758	0	16.5758	9
##	3410	-16.2396	0	16.2396	10
##	3411	16.1714	0	16.1714	11
##	3412	-16.0196	0	16.0196	12
##	3413	-15.7206	0	15.7206	13
##	3414	15.6918	0	15.6918	14
##	3415	14.9112	0	14.9112	15
##	3416	-14.8394	0	14.8394	16
##	3417	14.4749	0	14.4749	17
##	3418	-14.3405	0	14.3405	18
##	3419	13.9455	0	13.9455	19
##	3420	-13.7592	0	13.7592	20
##	3421	-13.6740	0	13.6740	21
##	3422	13.5450	0	13.5450	22

##	3423	-13.4035	0	13.4035	23
##	3424	13.0437	0	13.0437	24
##	3425	-12.9292	0	12.9292	25
##	3426	12.7780	0	12.7780	26
##	3427	-12.6282	0	12.6282	27
##	3428	12.4996	0	12.4996	28
##	3429	12.1990	0	12.1990	29
##	3430	-12.1735	0	12.1735	30
##	3431	-11.8673	0	11.8673	31
##	3432	11.7125	0	11.7125	32
##	3433	-11.1755	0	11.1755	33
##	3434	11.0216	0	11.0216	34
##	3435	10.8475	0	10.8475	35
##	3436	-10.5615	0	10.5615	36
##	3437	10.4302	0	10.4302	37
##	3438	-10.1462	0	10.1462	38
##	3439	9.9843	0	9.9843	39
##	3440	-9.7350	0	9.7350	40
##	3441	9.4526	0	9.4526	41
##	3442	-9.1760	0	9.1760	42
##	3443	9.0309	0	9.0309	43
##	3444	-8.9812	0	8.9812	44
##	3445	8.7323	0	8.7323	45
##	3446	-8.7128	0	8.7128	46
##	3447	-8.5611	0	8.5611	47
##	3448	8.3086	0	8.3086	48
##	3449	8.1298	0	8.1298	49
##	3450	-8.1259	0	8.1259	50
##	3451	-7.8219	0	7.8219	51
##	3452	7.7775	0	7.7775	52
##	3453	7.4845	0	7.4845	53
##	3454	-7.4234	0	7.4234	54
##	3455	-7.1114	0	7.1114	55
##	3456	6.8870	0	6.8870	56
##	3457	-6.7934	0	6.7934	57
##	3458	6.5955	0	6.5955	58
##	3459	-6.5294	0	6.5294	59
##	3460	6.3511	0	6.3511	60
##	3461	-6.2604	0	6.2604	61
##	3462	-5.9774	0	5.9774	62
##	3463	5.8287	0	5.8287	63
##	3464	5.7275	0	5.7275	64
##	3465	-5.5604	0	5.5604	65
##	3466	5.4173	0	5.4173	66
##	3467	-5.3203	0	5.3203	67
##	3468	5.2354	0	5.2354	68
##	3469	-5.0278	0	5.0278	69
##	3470	4.7934	0	4.7934	70
##	3471	-4.6167	0	4.6167	71
##	3472	4.3971	0	4.3971	72
##	3473	-4.1386	0	4.1386	73
##	3474	4.0901	0	4.0901	74
##	3475	-3.9327	0	3.9327	75
##	3476	3.8392	0	3.8392	76

## 3477	-3.5966	0	3.5966	77
## 3478	3.5513	0	3.5513	78
## 3479	-3.4881	0	3.4881	79
## 3480	-3.2789	0	3.2789	80
## 3481	3.2171	0	3.2171	81
## 3482	-3.0044	0	3.0044	82
## 3483	2.9642	0	2.9642	83
## 3484	2.6054	0	2.6054	84
## 3485	-2.5098	0	2.5098	85
## 3486	2.3012	0	2.3012	86
## 3487	2.1317	0	2.1317	87
## 3488	-1.9743	0	1.9743	88
## 3489	1.8003	0	1.8003	89
## 3490	-1.6076	0	1.6076	90
## 3491	1.5578	0	1.5578	91
## 3492	-1.4170	0	1.4170	92
## 3493	-1.2618	0	1.2618	93
## 3494	1.0301	0	1.0301	94
## 3495	-0.9214	0	0.9214	95
## 3496	0.8029	0	0.8029	96
## 3497	-0.7413	0	0.7413	97
## 3498	-0.5410	0	0.5410	98
## 3499	0.2761	0	0.2761	99
## 3500	-0.1309	0	0.1309	100
## 3501	-19.6289	0	19.6289	1
## 3502	19.0717	0	19.0717	2
## 3503	-18.4817	0	18.4817	3
## 3504	18.3830	0	18.3830	4
## 3505	-17.8440	0	17.8440	5
## 3506	17.7004	0	17.7004	6
## 3507	17.3676	0	17.3676	7
## 3508	-17.0050	0	17.0050	8
## 3509	16.5315	0	16.5315	9
## 3510	-16.3616	0	16.3616	10
## 3511	-15.9733	0	15.9733	11
## 3512	15.8181	0	15.8181	12
## 3513	15.6245	0	15.6245	13
## 3514	-15.4704	0	15.4704	14
## 3515	-15.1147	0	15.1147	15
## 3516	15.0285	0	15.0285	16
## 3517	14.6855	0	14.6855	17
## 3518	-14.6411	0	14.6411	18
## 3519	-14.3439	0	14.3439	19
## 3520	14.2130	0	14.2130	20
## 3521	-13.8856	0	13.8856	21
## 3522	13.7457	0	13.7457	22
## 3523	-13.4563	0	13.4563	23
## 3524	12.9639	0	12.9639	24
## 3525	-12.8710	0	12.8710	25
## 3526	12.6339	0	12.6339	26
## 3527	12.4787	0	12.4787	27
## 3528	-12.2537	0	12.2537	28
## 3529	-11.9590	0	11.9590	29
## 3530	11.8736	0	11.8736	30

## 3531	11.7726	0	11.7726	31
## 3532	-11.7498	0	11.7498	32
## 3533	-11.1964	0	11.1964	33
## 3534	11.1587	0	11.1587	34
## 3535	11.0414	0	11.0414	35
## 3536	-10.9458	0	10.9458	36
## 3537	-10.4524	0	10.4524	37
## 3538	10.4275	0	10.4275	38
## 3539	-10.0593	0	10.0593	39
## 3540	9.9963	0	9.9963	40
## 3541	9.6867	0	9.6867	41
## 3542	-9.6436	0	9.6436	42
## 3543	-9.5360	0	9.5360	43
## 3544	-9.0864	0	9.0864	44
## 3545	9.0592	0	9.0592	45
## 3546	8.9553	0	8.9553	46
## 3547	-8.7284	0	8.7284	47
## 3548	8.5398	0	8.5398	48
## 3549	-8.3824	0	8.3824	49
## 3550	8.2913	0	8.2913	50
## 3551	-7.9793	0	7.9793	51
## 3552	-7.8419	0	7.8419	52
## 3553	7.8331	0	7.8331	53
## 3554	7.5632	0	7.5632	54
## 3555	-7.5356	0	7.5356	55
## 3556	-7.2802	0	7.2802	56
## 3557	7.2121	0	7.2121	57
## 3558	7.0686	0	7.0686	58
## 3559	-6.8226	0	6.8226	59
## 3560	6.6532	0	6.6532	60
## 3561	-6.5559	0	6.5559	61
## 3562	6.3794	0	6.3794	62
## 3563	6.0033	0	6.0033	63
## 3564	-5.9384	0	5.9384	64
## 3565	5.9121	0	5.9121	65
## 3566	-5.4393	0	5.4393	66
## 3567	5.2318	0	5.2318	67
## 3568	-5.2072	0	5.2072	68
## 3569	5.0389	0	5.0389	69
## 3570	-4.8091	0	4.8091	70
## 3571	-4.6260	0	4.6260	71
## 3572	4.6160	0	4.6160	72
## 3573	4.2318	0	4.2318	73
## 3574	-4.1532	0	4.1532	74
## 3575	4.1183	0	4.1183	75
## 3576	-3.9348	0	3.9348	76
## 3577	3.6373	0	3.6373	77
## 3578	-3.6010	0	3.6010	78
## 3579	-3.5299	0	3.5299	79
## 3580	3.4126	0	3.4126	80
## 3581	3.1539	0	3.1539	81
## 3582	-3.1017	0	3.1017	82
## 3583	2.8536	0	2.8536	83
## 3584	-2.7275	0	2.7275	84

##	3585	-2.2148	0	2.2148	85
##	3586	2.1715	0	2.1715	86
##	3587	-2.1340	0	2.1340	87
##	3588	1.8764	0	1.8764	88
##	3589	-1.8573	0	1.8573	89
##	3590	1.7157	0	1.7157	90
##	3591	-1.5892	0	1.5892	91
##	3592	-1.4420	0	1.4420	92
##	3593	1.3765	0	1.3765	93
##	3594	1.1296	0	1.1296	94
##	3595	-1.0717	0	1.0717	95
##	3596	0.8243	0	0.8243	96
##	3597	-0.7179	0	0.7179	97
##	3598	0.4342	0	0.4342	98
##	3599	0.2372	0	0.2372	99
##	3600	-0.0686	0	0.0686	100
##	3601	-19.9892	0	19.9892	1
##	3602	19.5156	0	19.5156	2
##	3603	18.3069	0	18.3069	3
##	3604	-17.9339	0	17.9339	4
##	3605	-17.4128	0	17.4128	5
##	3606	17.3851	0	17.3851	6
##	3607	17.0548	0	17.0548	7
##	3608	-17.0371	0	17.0371	8
##	3609	16.4527	0	16.4527	9
##	3610	-16.3877	0	16.3877	10
##	3611	15.9997	0	15.9997	11
##	3612	-15.9120	0	15.9120	12
##	3613	15.6055	0	15.6055	13
##	3614	-15.4614	0	15.4614	14
##	3615	14.9543	0	14.9543	15
##	3616	-14.8345	0	14.8345	16
##	3617	-14.6170	0	14.6170	17
##	3618	14.4362	0	14.4362	18
##	3619	-14.4336	0	14.4336	19
##	3620	14.1681	0	14.1681	20
##	3621	-13.7475	0	13.7475	21
##	3622	13.5194	0	13.5194	22
##	3623	13.3573	0	13.3573	23
##	3624	13.2463	0	13.2463	24
##	3625	-13.0704	0	13.0704	25
##	3626	-12.7413	0	12.7413	26
##	3627	12.3102	0	12.3102	27
##	3628	-11.9093	0	11.9093	28
##	3629	11.8369	0	11.8369	29
##	3630	-11.7536	0	11.7536	30
##	3631	-11.3714	0	11.3714	31
##	3632	11.3070	0	11.3070	32
##	3633	11.1486	0	11.1486	33
##	3634	-11.0964	0	11.0964	34
##	3635	10.6899	0	10.6899	35
##	3636	-10.6436	0	10.6436	36
##	3637	10.4447	0	10.4447	37
##	3638	10.1802	0	10.1802	38

## 3639	-10.1496	0	10.1496	39
## 3640	-9.9567	0	9.9567	40
## 3641	9.6370	0	9.6370	41
## 3642	-9.6047	0	9.6047	42
## 3643	-9.1898	0	9.1898	43
## 3644	9.1194	0	9.1194	44
## 3645	8.8772	0	8.8772	45
## 3646	-8.7039	0	8.7039	46
## 3647	-8.2991	0	8.2991	47
## 3648	-8.1771	0	8.1771	48
## 3649	8.1743	0	8.1743	49
## 3650	7.9087	0	7.9087	50
## 3651	7.6051	0	7.6051	51
## 3652	-7.5406	0	7.5406	52
## 3653	7.4827	0	7.4827	53
## 3654	-7.4109	0	7.4109	54
## 3655	-7.2423	0	7.2423	55
## 3656	7.1699	0	7.1699	56
## 3657	-6.8597	0	6.8597	57
## 3658	6.8563	0	6.8563	58
## 3659	-6.5272	0	6.5272	59
## 3660	6.5089	0	6.5089	60
## 3661	6.2446	0	6.2446	61
## 3662	-6.1766	0	6.1766	62
## 3663	-5.9754	0	5.9754	63
## 3664	5.9466	0	5.9466	64
## 3665	5.6345	0	5.6345	65
## 3666	-5.4769	0	5.4769	66
## 3667	5.3898	0	5.3898	67
## 3668	-5.3880	0	5.3880	68
## 3669	-5.1172	0	5.1172	69
## 3670	5.0915	0	5.0915	70
## 3671	4.9960	0	4.9960	71
## 3672	4.6227	0	4.6227	72
## 3673	-4.5379	0	4.5379	73
## 3674	4.2216	0	4.2216	74
## 3675	-4.1660	0	4.1660	75
## 3676	-3.8316	0	3.8316	76
## 3677	-3.7257	0	3.7257	77
## 3678	3.5703	0	3.5703	78
## 3679	-3.4148	0	3.4148	79
## 3680	3.2912	0	3.2912	80
## 3681	2.9897	0	2.9897	81
## 3682	-2.9164	0	2.9164	82
## 3683	2.7524	0	2.7524	83
## 3684	2.5562	0	2.5562	84
## 3685	2.4939	0	2.4939	85
## 3686	-2.4542	0	2.4542	86
## 3687	-2.2953	0	2.2953	87
## 3688	-1.8601	0	1.8601	88
## 3689	1.6638	0	1.6638	89
## 3690	-1.6380	0	1.6380	90
## 3691	-1.3304	0	1.3304	91
## 3692	1.3214	0	1.3214	92

## 3693	1.0489	0	1.0489	93
## 3694	-1.0085	0	1.0085	94
## 3695	-0.8417	0	0.8417	95
## 3696	0.8022	0	0.8022	96
## 3697	0.6187	0	0.6187	97
## 3698	-0.5656	0	0.5656	98
## 3699	-0.2678	0	0.2678	99
## 3700	0.2604	0	0.2604	100
## 3701	20.0867	0	20.0867	1
## 3702	-19.0060	0	19.0060	2
## 3703	18.6037	0	18.6037	3
## 3704	-18.3538	0	18.3538	4
## 3705	17.8787	0	17.8787	5
## 3706	-17.6110	0	17.6110	6
## 3707	-16.9877	0	16.9877	7
## 3708	16.7227	0	16.7227	8
## 3709	16.4118	0	16.4118	9
## 3710	-16.2783	0	16.2783	10
## 3711	16.0121	0	16.0121	11
## 3712	-15.8707	0	15.8707	12
## 3713	-15.3225	0	15.3225	13
## 3714	14.9459	0	14.9459	14
## 3715	-14.8047	0	14.8047	15
## 3716	-14.6165	0	14.6165	16
## 3717	14.5427	0	14.5427	17
## 3718	14.1520	0	14.1520	18
## 3719	-14.0510	0	14.0510	19
## 3720	-13.8928	0	13.8928	20
## 3721	13.7914	0	13.7914	21
## 3722	-13.5350	0	13.5350	22
## 3723	13.3276	0	13.3276	23
## 3724	12.8497	0	12.8497	24
## 3725	-12.7875	0	12.7875	25
## 3726	12.6299	0	12.6299	26
## 3727	-12.2485	0	12.2485	27
## 3728	12.2362	0	12.2362	28
## 3729	-12.0260	0	12.0260	29
## 3730	12.0120	0	12.0120	30
## 3731	-11.3921	0	11.3921	31
## 3732	11.3092	0	11.3092	32
## 3733	-11.1054	0	11.1054	33
## 3734	10.9190	0	10.9190	34
## 3735	-10.7465	0	10.7465	35
## 3736	10.6254	0	10.6254	36
## 3737	-10.4197	0	10.4197	37
## 3738	10.4071	0	10.4071	38
## 3739	-9.8955	0	9.8955	39
## 3740	9.8808	0	9.8808	40
## 3741	-9.5818	0	9.5818	41
## 3742	9.4065	0	9.4065	42
## 3743	-9.2951	0	9.2951	43
## 3744	9.2274	0	9.2274	44
## 3745	-9.0272	0	9.0272	45
## 3746	9.0039	0	9.0039	46

## 3747	-8.6567	0	8.6567	47
## 3748	8.3853	0	8.3853	48
## 3749	-8.2718	0	8.2718	49
## 3750	8.1884	0	8.1884	50
## 3751	7.7872	0	7.7872	51
## 3752	-7.7265	0	7.7265	52
## 3753	7.7218	0	7.7218	53
## 3754	-7.3440	0	7.3440	54
## 3755	7.2736	0	7.2736	55
## 3756	-7.0448	0	7.0448	56
## 3757	6.9252	0	6.9252	57
## 3758	-6.7550	0	6.7550	58
## 3759	-6.4985	0	6.4985	59
## 3760	6.4398	0	6.4398	60
## 3761	-6.2583	0	6.2583	61
## 3762	6.1551	0	6.1551	62
## 3763	-5.9365	0	5.9365	63
## 3764	5.8272	0	5.8272	64
## 3765	5.5868	0	5.5868	65
## 3766	-5.3852	0	5.3852	66
## 3767	-5.2822	0	5.2822	67
## 3768	5.1538	0	5.1538	68
## 3769	-5.0534	0	5.0534	69
## 3770	4.7535	0	4.7535	70
## 3771	-4.7253	0	4.7253	71
## 3772	4.6404	0	4.6404	72
## 3773	-4.3361	0	4.3361	73
## 3774	4.2863	0	4.2863	74
## 3775	-4.0203	0	4.0203	75
## 3776	4.0191	0	4.0191	76
## 3777	3.7514	0	3.7514	77
## 3778	-3.5257	0	3.5257	78
## 3779	-3.4310	0	3.4310	79
## 3780	3.2471	0	3.2471	80
## 3781	-3.0575	0	3.0575	81
## 3782	-2.7168	0	2.7168	82
## 3783	2.7059	0	2.7059	83
## 3784	-2.5028	0	2.5028	84
## 3785	2.4984	0	2.4984	85
## 3786	2.2864	0	2.2864	86
## 3787	-2.2565	0	2.2565	87
## 3788	1.8634	0	1.8634	88
## 3789	-1.8592	0	1.8592	89
## 3790	1.4387	0	1.4387	90
## 3791	1.3994	0	1.3994	91
## 3792	-1.3551	0	1.3551	92
## 3793	-1.1767	0	1.1767	93
## 3794	-0.8796	0	0.8796	94
## 3795	0.8316	0	0.8316	95
## 3796	0.5660	0	0.5660	96
## 3797	-0.5295	0	0.5295	97
## 3798	0.3059	0	0.3059	98
## 3799	-0.2867	0	0.2867	99
## 3800	0.0546	0	0.0546	100

## 3801	-19.1426	0	19.1426	1
## 3802	18.8660	0	18.8660	2
## 3803	17.9657	0	17.9657	3
## 3804	-17.9112	0	17.9112	4
## 3805	-17.6534	0	17.6534	5
## 3806	17.5631	0	17.5631	6
## 3807	-16.8911	0	16.8911	7
## 3808	16.6232	0	16.6232	8
## 3809	-16.5714	0	16.5714	9
## 3810	16.0669	0	16.0669	10
## 3811	-16.0034	0	16.0034	11
## 3812	15.6608	0	15.6608	12
## 3813	-15.4485	0	15.4485	13
## 3814	15.2013	0	15.2013	14
## 3815	-14.9706	0	14.9706	15
## 3816	14.7387	0	14.7387	16
## 3817	-14.4046	0	14.4046	17
## 3818	14.1352	0	14.1352	18
## 3819	-14.0170	0	14.0170	19
## 3820	13.8173	0	13.8173	20
## 3821	-13.3514	0	13.3514	21
## 3822	-13.1332	0	13.1332	22
## 3823	13.0607	0	13.0607	23
## 3824	12.6927	0	12.6927	24
## 3825	-12.6299	0	12.6299	25
## 3826	12.4499	0	12.4499	26
## 3827	-12.2395	0	12.2395	27
## 3828	12.2077	0	12.2077	28
## 3829	-12.0825	0	12.0825	29
## 3830	11.8092	0	11.8092	30
## 3831	-11.7892	0	11.7892	31
## 3832	-11.6650	0	11.6650	32
## 3833	11.2040	0	11.2040	33
## 3834	10.9656	0	10.9656	34
## 3835	-10.9085	0	10.9085	35
## 3836	-10.6611	0	10.6611	36
## 3837	10.5891	0	10.5891	37
## 3838	10.3229	0	10.3229	38
## 3839	-10.2105	0	10.2105	39
## 3840	9.9642	0	9.9642	40
## 3841	9.4228	0	9.4228	41
## 3842	-9.3466	0	9.3466	42
## 3843	9.1877	0	9.1877	43
## 3844	-9.0207	0	9.0207	44
## 3845	-8.8745	0	8.8745	45
## 3846	8.7275	0	8.7275	46
## 3847	8.5321	0	8.5321	47
## 3848	-8.4837	0	8.4837	48
## 3849	8.3223	0	8.3223	49
## 3850	-8.3015	0	8.3015	50
## 3851	-7.9564	0	7.9564	51
## 3852	7.8599	0	7.8599	52
## 3853	-7.6771	0	7.6771	53
## 3854	7.4970	0	7.4970	54

##	3855	-7.3373	0	7.3373	55
##	3856	7.2823	0	7.2823	56
##	3857	-7.0448	0	7.0448	57
##	3858	6.8240	0	6.8240	58
##	3859	-6.8059	0	6.8059	59
##	3860	6.4525	0	6.4525	60
##	3861	-6.1890	0	6.1890	61
##	3862	6.1476	0	6.1476	62
##	3863	-5.9252	0	5.9252	63
##	3864	-5.6617	0	5.6617	64
##	3865	5.5929	0	5.5929	65
##	3866	5.4414	0	5.4414	66
##	3867	-5.2498	0	5.2498	67
##	3868	5.0396	0	5.0396	68
##	3869	-4.8704	0	4.8704	69
##	3870	-4.6683	0	4.6683	70
##	3871	4.6588	0	4.6588	71
##	3872	-4.4837	0	4.4837	72
##	3873	4.3844	0	4.3844	73
##	3874	4.2080	0	4.2080	74
##	3875	-3.9683	0	3.9683	75
##	3876	3.7919	0	3.7919	76
##	3877	3.5955	0	3.5955	77
##	3878	-3.5752	0	3.5752	78
##	3879	-3.3713	0	3.3713	79
##	3880	3.3339	0	3.3339	80
##	3881	3.0509	0	3.0509	81
##	3882	-2.7839	0	2.7839	82
##	3883	2.7145	0	2.7145	83
##	3884	-2.6025	0	2.6025	84
##	3885	2.3295	0	2.3295	85
##	3886	-2.2761	0	2.2761	86
##	3887	2.0157	0	2.0157	87
##	3888	-1.8704	0	1.8704	88
##	3889	1.7450	0	1.7450	89
##	3890	-1.7038	0	1.7038	90
##	3891	1.4769	0	1.4769	91
##	3892	-1.3000	0	1.3000	92
##	3893	-1.1436	0	1.1436	93
##	3894	0.9538	0	0.9538	94
##	3895	-0.8620	0	0.8620	95
##	3896	0.6589	0	0.6589	96
##	3897	-0.4401	0	0.4401	97
##	3898	0.4372	0	0.4372	98
##	3899	0.3481	0	0.3481	99
##	3900	0.0353	0	0.0353	100
##	3901	-19.4117	0	19.4117	1
##	3902	19.0274	0	19.0274	2
##	3903	-18.6748	0	18.6748	3
##	3904	18.3294	0	18.3294	4
##	3905	-18.2097	0	18.2097	5
##	3906	-17.3757	0	17.3757	6
##	3907	17.2880	0	17.2880	7
##	3908	-16.8874	0	16.8874	8

## 3909	16.7674	0	16.7674	9
## 3910	16.2619	0	16.2619	10
## 3911	-16.0521	0	16.0521	11
## 3912	15.7115	0	15.7115	12
## 3913	-15.3753	0	15.3753	13
## 3914	15.1384	0	15.1384	14
## 3915	-14.9682	0	14.9682	15
## 3916	14.6118	0	14.6118	16
## 3917	-14.6106	0	14.6106	17
## 3918	14.4399	0	14.4399	18
## 3919	14.0939	0	14.0939	19
## 3920	-13.9682	0	13.9682	20
## 3921	13.5177	0	13.5177	21
## 3922	-13.4371	0	13.4371	22
## 3923	-13.1051	0	13.1051	23
## 3924	13.0740	0	13.0740	24
## 3925	-12.9115	0	12.9115	25
## 3926	-12.7258	0	12.7258	26
## 3927	12.3876	0	12.3876	27
## 3928	12.3109	0	12.3109	28
## 3929	-12.1803	0	12.1803	29
## 3930	11.8348	0	11.8348	30
## 3931	-11.7529	0	11.7529	31
## 3932	11.6258	0	11.6258	32
## 3933	-11.3556	0	11.3556	33
## 3934	11.1692	0	11.1692	34
## 3935	-10.8093	0	10.8093	35
## 3936	10.7556	0	10.7556	36
## 3937	-10.5473	0	10.5473	37
## 3938	10.3155	0	10.3155	38
## 3939	10.1687	0	10.1687	39
## 3940	-10.0940	0	10.0940	40
## 3941	-9.8683	0	9.8683	41
## 3942	-9.6970	0	9.6970	42
## 3943	9.5414	0	9.5414	43
## 3944	-9.4660	0	9.4660	44
## 3945	9.2189	0	9.2189	45
## 3946	-9.2169	0	9.2169	46
## 3947	9.0806	0	9.0806	47
## 3948	-8.7013	0	8.7013	48
## 3949	8.6274	0	8.6274	49
## 3950	-8.2520	0	8.2520	50
## 3951	-8.1201	0	8.1201	51
## 3952	8.0264	0	8.0264	52
## 3953	7.8567	0	7.8567	53
## 3954	-7.5609	0	7.5609	54
## 3955	7.5295	0	7.5295	55
## 3956	-7.0628	0	7.0628	56
## 3957	-6.9108	0	6.9108	57
## 3958	6.8874	0	6.8874	58
## 3959	6.7310	0	6.7310	59
## 3960	-6.4382	0	6.4382	60
## 3961	6.4063	0	6.4063	61
## 3962	6.0711	0	6.0711	62

## 3963	-6.0118	0	6.0118	63
## 3964	-5.9016	0	5.9016	64
## 3965	5.6066	0	5.6066	65
## 3966	-5.4419	0	5.4419	66
## 3967	-5.1744	0	5.1744	67
## 3968	5.0454	0	5.0454	68
## 3969	4.7809	0	4.7809	69
## 3970	-4.7285	0	4.7285	70
## 3971	-4.4430	0	4.4430	71
## 3972	4.4165	0	4.4165	72
## 3973	4.0558	0	4.0558	73
## 3974	-4.0537	0	4.0537	74
## 3975	3.8948	0	3.8948	75
## 3976	-3.7068	0	3.7068	76
## 3977	3.5493	0	3.5493	77
## 3978	-3.3727	0	3.3727	78
## 3979	3.2683	0	3.2683	79
## 3980	-3.1183	0	3.1183	80
## 3981	2.9847	0	2.9847	81
## 3982	-2.7627	0	2.7627	82
## 3983	2.7080	0	2.7080	83
## 3984	-2.4492	0	2.4492	84
## 3985	2.3954	0	2.3954	85
## 3986	-2.3288	0	2.3288	86
## 3987	2.2172	0	2.2172	87
## 3988	-2.0149	0	2.0149	88
## 3989	1.8328	0	1.8328	89
## 3990	1.5360	0	1.5360	90
## 3991	-1.5329	0	1.5329	91
## 3992	1.2160	0	1.2160	92
## 3993	-1.1391	0	1.1391	93
## 3994	0.8685	0	0.8685	94
## 3995	-0.7344	0	0.7344	95
## 3996	0.6900	0	0.6900	96
## 3997	-0.5884	0	0.5884	97
## 3998	0.3430	0	0.3430	98
## 3999	-0.2665	0	0.2665	99
## 4000	0.0760	0	0.0760	100
## 4001	-18.9881	0	18.9881	1
## 4002	18.9848	0	18.9848	2
## 4003	18.3801	0	18.3801	3
## 4004	-18.0865	0	18.0865	4
## 4005	-17.5518	0	17.5518	5
## 4006	17.3166	0	17.3166	6
## 4007	-16.8797	0	16.8797	7
## 4008	16.3367	0	16.3367	8
## 4009	-16.1671	0	16.1671	9
## 4010	-15.8685	0	15.8685	10
## 4011	15.8508	0	15.8508	11
## 4012	15.6834	0	15.6834	12
## 4013	-15.3748	0	15.3748	13
## 4014	15.0680	0	15.0680	14
## 4015	-14.9842	0	14.9842	15
## 4016	14.7626	0	14.7626	16

##	4017	-14.3987	0	14.3987	17
##	4018	14.1034	0	14.1034	18
##	4019	-13.9215	0	13.9215	19
##	4020	13.8471	0	13.8471	20
##	4021	13.6031	0	13.6031	21
##	4022	-13.4293	0	13.4293	22
##	4023	12.8920	0	12.8920	23
##	4024	-12.8509	0	12.8509	24
##	4025	-12.4273	0	12.4273	25
##	4026	12.4175	0	12.4175	26
##	4027	-12.0353	0	12.0353	27
##	4028	11.8486	0	11.8486	28
##	4029	11.6821	0	11.6821	29
##	4030	-11.3715	0	11.3715	30
##	4031	11.2428	0	11.2428	31
##	4032	-11.0351	0	11.0351	32
##	4033	-10.8945	0	10.8945	33
##	4034	10.7834	0	10.7834	34
##	4035	10.5848	0	10.5848	35
##	4036	-10.4615	0	10.4615	36
##	4037	10.2717	0	10.2717	37
##	4038	-10.2207	0	10.2207	38
##	4039	-9.8603	0	9.8603	39
##	4040	9.7986	0	9.7986	40
##	4041	-9.6275	0	9.6275	41
##	4042	9.5024	0	9.5024	42
##	4043	9.2399	0	9.2399	43
##	4044	-8.9223	0	8.9223	44
##	4045	8.8901	0	8.8901	45
##	4046	8.4594	0	8.4594	46
##	4047	-8.4579	0	8.4579	47
##	4048	-8.2792	0	8.2792	48
##	4049	8.1079	0	8.1079	49
##	4050	-7.9153	0	7.9153	50
##	4051	7.8010	0	7.8010	51
##	4052	-7.5101	0	7.5101	52
##	4053	7.4851	0	7.4851	53
##	4054	-7.3350	0	7.3350	54
##	4055	7.1833	0	7.1833	55
##	4056	7.0434	0	7.0434	56
##	4057	-7.0110	0	7.0110	57
##	4058	-6.8072	0	6.8072	58
##	4059	-6.7203	0	6.7203	59
##	4060	6.5787	0	6.5787	60
##	4061	6.2629	0	6.2629	61
##	4062	-6.0994	0	6.0994	62
##	4063	5.9468	0	5.9468	63
##	4064	-5.7086	0	5.7086	64
##	4065	-5.5346	0	5.5346	65
##	4066	5.5131	0	5.5131	66
##	4067	-5.3507	0	5.3507	67
##	4068	5.1835	0	5.1835	68
##	4069	-5.0152	0	5.0152	69
##	4070	4.8548	0	4.8548	70

## 4071	-4.7330	0	4.7330	71
## 4072	4.6034	0	4.6034	72
## 4073	4.1793	0	4.1793	73
## 4074	-4.1680	0	4.1680	74
## 4075	-4.0247	0	4.0247	75
## 4076	3.8874	0	3.8874	76
## 4077	3.6696	0	3.6696	77
## 4078	-3.6428	0	3.6428	78
## 4079	3.4686	0	3.4686	79
## 4080	-3.1241	0	3.1241	80
## 4081	3.0797	0	3.0797	81
## 4082	-2.8640	0	2.8640	82
## 4083	-2.6490	0	2.6490	83
## 4084	2.5187	0	2.5187	84
## 4085	2.3542	0	2.3542	85
## 4086	-2.2836	0	2.2836	86
## 4087	-2.0165	0	2.0165	87
## 4088	1.9623	0	1.9623	88
## 4089	-1.8467	0	1.8467	89
## 4090	-1.6620	0	1.6620	90
## 4091	1.6239	0	1.6239	91
## 4092	1.3595	0	1.3595	92
## 4093	-1.1683	0	1.1683	93
## 4094	0.9845	0	0.9845	94
## 4095	0.9024	0	0.9024	95
## 4096	-0.7781	0	0.7781	96
## 4097	0.6060	0	0.6060	97
## 4098	-0.5014	0	0.5014	98
## 4099	0.2357	0	0.2357	99
## 4100	-0.1671	0	0.1671	100
## 4101	19.5901	0	19.5901	1
## 4102	-18.6112	0	18.6112	2
## 4103	18.5461	0	18.5461	3
## 4104	-18.2127	0	18.2127	4
## 4105	17.7170	0	17.7170	5
## 4106	-17.4325	0	17.4325	6
## 4107	17.2758	0	17.2758	7
## 4108	-16.8563	0	16.8563	8
## 4109	16.4142	0	16.4142	9
## 4110	-16.1201	0	16.1201	10
## 4111	15.6586	0	15.6586	11
## 4112	-15.4817	0	15.4817	12
## 4113	15.4032	0	15.4032	13
## 4114	-15.2133	0	15.2133	14
## 4115	-15.0141	0	15.0141	15
## 4116	14.9129	0	14.9129	16
## 4117	-14.6157	0	14.6157	17
## 4118	14.5721	0	14.5721	18
## 4119	-14.1284	0	14.1284	19
## 4120	14.0795	0	14.0795	20
## 4121	-13.5941	0	13.5941	21
## 4122	13.5380	0	13.5380	22
## 4123	-13.1902	0	13.1902	23
## 4124	12.9303	0	12.9303	24

## 4125	12.7033	0	12.7033	25
## 4126	-12.4721	0	12.4721	26
## 4127	12.3659	0	12.3659	27
## 4128	-12.2293	0	12.2293	28
## 4129	-11.8232	0	11.8232	29
## 4130	11.7705	0	11.7705	30
## 4131	-11.4967	0	11.4967	31
## 4132	11.4570	0	11.4570	32
## 4133	-10.9094	0	10.9094	33
## 4134	10.7292	0	10.7292	34
## 4135	-10.5364	0	10.5364	35
## 4136	-10.4230	0	10.4230	36
## 4137	10.3102	0	10.3102	37
## 4138	-10.1742	0	10.1742	38
## 4139	10.0938	0	10.0938	39
## 4140	-9.7042	0	9.7042	40
## 4141	9.6955	0	9.6955	41
## 4142	9.5396	0	9.5396	42
## 4143	-9.4195	0	9.4195	43
## 4144	9.1415	0	9.1415	44
## 4145	-9.1132	0	9.1132	45
## 4146	8.8719	0	8.8719	46
## 4147	-8.7769	0	8.7769	47
## 4148	8.6949	0	8.6949	48
## 4149	-8.5351	0	8.5351	49
## 4150	8.1496	0	8.1496	50
## 4151	-8.1039	0	8.1039	51
## 4152	-7.7981	0	7.7981	52
## 4153	7.7769	0	7.7769	53
## 4154	-7.4265	0	7.4265	54
## 4155	7.3289	0	7.3289	55
## 4156	-7.2242	0	7.2242	56
## 4157	7.0202	0	7.0202	57
## 4158	-6.8790	0	6.8790	58
## 4159	6.6542	0	6.6542	59
## 4160	6.4374	0	6.4374	60
## 4161	-6.4113	0	6.4113	61
## 4162	6.1286	0	6.1286	62
## 4163	-6.0678	0	6.0678	63
## 4164	5.8585	0	5.8585	64
## 4165	-5.7707	0	5.7707	65
## 4166	-5.3442	0	5.3442	66
## 4167	5.3364	0	5.3364	67
## 4168	5.0935	0	5.0935	68
## 4169	-5.0556	0	5.0556	69
## 4170	4.8648	0	4.8648	70
## 4171	-4.6378	0	4.6378	71
## 4172	4.3651	0	4.3651	72
## 4173	-4.1671	0	4.1671	73
## 4174	4.0518	0	4.0518	74
## 4175	-3.8352	0	3.8352	75
## 4176	3.8042	0	3.8042	76
## 4177	-3.6127	0	3.6127	77
## 4178	-3.3040	0	3.3040	78

## 4179	3.2820	0	3.2820	79
## 4180	3.2094	0	3.2094	80
## 4181	-3.1609	0	3.1609	81
## 4182	2.8074	0	2.8074	82
## 4183	-2.7019	0	2.7019	83
## 4184	2.6176	0	2.6176	84
## 4185	-2.3512	0	2.3512	85
## 4186	2.1052	0	2.1052	86
## 4187	-1.9880	0	1.9880	87
## 4188	1.8266	0	1.8266	88
## 4189	-1.7033	0	1.7033	89
## 4190	1.5412	0	1.5412	90
## 4191	-1.4425	0	1.4425	91
## 4192	-1.2352	0	1.2352	92
## 4193	1.0850	0	1.0850	93
## 4194	-0.8643	0	0.8643	94
## 4195	0.6501	0	0.6501	95
## 4196	-0.5937	0	0.5937	96
## 4197	-0.3936	0	0.3936	97
## 4198	0.3411	0	0.3411	98
## 4199	0.0586	0	0.0586	99
## 4200	0.0116	0	0.0116	100
## 4201	19.7343	0	19.7343	1
## 4202	-19.4652	0	19.4652	2
## 4203	-18.8376	0	18.8376	3
## 4204	18.4539	0	18.4539	4
## 4205	-17.7178	0	17.7178	5
## 4206	17.4907	0	17.4907	6
## 4207	-17.2436	0	17.2436	7
## 4208	17.2124	0	17.2124	8
## 4209	16.3265	0	16.3265	9
## 4210	-16.3240	0	16.3240	10
## 4211	-15.9288	0	15.9288	11
## 4212	15.8954	0	15.8954	12
## 4213	-15.4483	0	15.4483	13
## 4214	15.3327	0	15.3327	14
## 4215	-15.0474	0	15.0474	15
## 4216	14.6400	0	14.6400	16
## 4217	-14.5837	0	14.5837	17
## 4218	14.3396	0	14.3396	18
## 4219	-14.0818	0	14.0818	19
## 4220	13.9088	0	13.9088	20
## 4221	-13.5775	0	13.5775	21
## 4222	13.4879	0	13.4879	22
## 4223	13.1001	0	13.1001	23
## 4224	-12.7514	0	12.7514	24
## 4225	12.7511	0	12.7511	25
## 4226	-12.5542	0	12.5542	26
## 4227	12.4241	0	12.4241	27
## 4228	-12.0616	0	12.0616	28
## 4229	12.0539	0	12.0539	29
## 4230	-11.8667	0	11.8667	30
## 4231	11.5531	0	11.5531	31
## 4232	-11.4236	0	11.4236	32

## 4233	11.2765	0	11.2765	33
## 4234	11.1482	0	11.1482	34
## 4235	-11.1119	0	11.1119	35
## 4236	10.4792	0	10.4792	36
## 4237	-10.3878	0	10.3878	37
## 4238	-10.1356	0	10.1356	38
## 4239	10.0847	0	10.0847	39
## 4240	9.7718	0	9.7718	40
## 4241	-9.7117	0	9.7117	41
## 4242	-9.3790	0	9.3790	42
## 4243	9.3339	0	9.3339	43
## 4244	-9.2100	0	9.2100	44
## 4245	-8.8232	0	8.8232	45
## 4246	8.6842	0	8.6842	46
## 4247	8.6071	0	8.6071	47
## 4248	-8.3713	0	8.3713	48
## 4249	-8.2022	0	8.2022	49
## 4250	8.1320	0	8.1320	50
## 4251	-8.0002	0	8.0002	51
## 4252	7.6954	0	7.6954	52
## 4253	-7.5832	0	7.5832	53
## 4254	7.4687	0	7.4687	54
## 4255	7.3126	0	7.3126	55
## 4256	-7.1907	0	7.1907	56
## 4257	-6.8707	0	6.8707	57
## 4258	6.8099	0	6.8099	58
## 4259	-6.6768	0	6.6768	59
## 4260	6.5464	0	6.5464	60
## 4261	6.2515	0	6.2515	61
## 4262	5.9838	0	5.9838	62
## 4263	-5.9279	0	5.9279	63
## 4264	-5.7710	0	5.7710	64
## 4265	-5.5320	0	5.5320	65
## 4266	5.4385	0	5.4385	66
## 4267	5.2230	0	5.2230	67
## 4268	5.1839	0	5.1839	68
## 4269	-5.0988	0	5.0988	69
## 4270	-4.7977	0	4.7977	70
## 4271	4.5862	0	4.5862	71
## 4272	-4.5739	0	4.5739	72
## 4273	-4.2525	0	4.2525	73
## 4274	4.1668	0	4.1668	74
## 4275	-3.9100	0	3.9100	75
## 4276	3.7745	0	3.7745	76
## 4277	3.5099	0	3.5099	77
## 4278	-3.4747	0	3.4747	78
## 4279	3.2206	0	3.2206	79
## 4280	-3.1050	0	3.1050	80
## 4281	2.9833	0	2.9833	81
## 4282	-2.8753	0	2.8753	82
## 4283	-2.7812	0	2.7812	83
## 4284	2.7616	0	2.7616	84
## 4285	-2.3745	0	2.3745	85
## 4286	2.3140	0	2.3140	86

## 4287	-2.0722	0	2.0722	87
## 4288	1.9473	0	1.9473	88
## 4289	-1.8671	0	1.8671	89
## 4290	-1.6796	0	1.6796	90
## 4291	1.6274	0	1.6274	91
## 4292	-1.3907	0	1.3907	92
## 4293	1.2297	0	1.2297	93
## 4294	1.1347	0	1.1347	94
## 4295	0.7384	0	0.7384	95
## 4296	-0.7217	0	0.7217	96
## 4297	0.4659	0	0.4659	97
## 4298	-0.3925	0	0.3925	98
## 4299	0.1671	0	0.1671	99
## 4300	-0.0854	0	0.0854	100
## 4301	-18.7731	0	18.7731	1
## 4302	18.3773	0	18.3773	2
## 4303	-18.3136	0	18.3136	3
## 4304	17.9172	0	17.9172	4
## 4305	17.2135	0	17.2135	5
## 4306	-17.1968	0	17.1968	6
## 4307	17.0101	0	17.0101	7
## 4308	-16.8633	0	16.8633	8
## 4309	16.3643	0	16.3643	9
## 4310	-16.3519	0	16.3519	10
## 4311	-15.7492	0	15.7492	11
## 4312	15.4619	0	15.4619	12
## 4313	-15.4337	0	15.4337	13
## 4314	-15.1045	0	15.1045	14
## 4315	15.0610	0	15.0610	15
## 4316	14.5782	0	14.5782	16
## 4317	-14.4425	0	14.4425	17
## 4318	14.2123	0	14.2123	18
## 4319	13.9034	0	13.9034	19
## 4320	-13.8149	0	13.8149	20
## 4321	13.4931	0	13.4931	21
## 4322	-13.2769	0	13.2769	22
## 4323	13.1769	0	13.1769	23
## 4324	-13.0091	0	13.0091	24
## 4325	-12.6832	0	12.6832	25
## 4326	12.5316	0	12.5316	26
## 4327	-12.3390	0	12.3390	27
## 4328	-12.1969	0	12.1969	28
## 4329	12.0541	0	12.0541	29
## 4330	11.8862	0	11.8862	30
## 4331	11.4963	0	11.4963	31
## 4332	-11.4526	0	11.4526	32
## 4333	10.9106	0	10.9106	33
## 4334	-10.8927	0	10.8927	34
## 4335	10.7502	0	10.7502	35
## 4336	-10.4715	0	10.4715	36
## 4337	10.3402	0	10.3402	37
## 4338	-10.2478	0	10.2478	38
## 4339	-9.9137	0	9.9137	39
## 4340	9.8874	0	9.8874	40

## 4341	-9.6571	0	9.6571	41
## 4342	9.5740	0	9.5740	42
## 4343	-9.2395	0	9.2395	43
## 4344	9.1450	0	9.1450	44
## 4345	8.7706	0	8.7706	45
## 4346	-8.7592	0	8.7592	46
## 4347	-8.6253	0	8.6253	47
## 4348	8.4252	0	8.4252	48
## 4349	-8.3863	0	8.3863	49
## 4350	8.2152	0	8.2152	50
## 4351	-7.9040	0	7.9040	51
## 4352	-7.7465	0	7.7465	52
## 4353	7.6985	0	7.6985	53
## 4354	-7.2446	0	7.2446	54
## 4355	7.2027	0	7.2027	55
## 4356	7.0426	0	7.0426	56
## 4357	-6.7505	0	6.7505	57
## 4358	6.7071	0	6.7071	58
## 4359	6.3654	0	6.3654	59
## 4360	-6.3067	0	6.3067	60
## 4361	6.1319	0	6.1319	61
## 4362	-5.8399	0	5.8399	62
## 4363	5.8243	0	5.8243	63
## 4364	-5.6707	0	5.6707	64
## 4365	-5.5278	0	5.5278	65
## 4366	5.3258	0	5.3258	66
## 4367	-5.1735	0	5.1735	67
## 4368	5.1550	0	5.1550	68
## 4369	-4.9304	0	4.9304	69
## 4370	4.8624	0	4.8624	70
## 4371	4.5667	0	4.5667	71
## 4372	-4.3645	0	4.3645	72
## 4373	4.3064	0	4.3064	73
## 4374	-4.3025	0	4.3025	74
## 4375	-4.0834	0	4.0834	75
## 4376	3.8950	0	3.8950	76
## 4377	-3.7049	0	3.7049	77
## 4378	3.6736	0	3.6736	78
## 4379	3.4823	0	3.4823	79
## 4380	-3.1977	0	3.1977	80
## 4381	3.0391	0	3.0391	81
## 4382	2.8794	0	2.8794	82
## 4383	-2.8604	0	2.8604	83
## 4384	2.5492	0	2.5492	84
## 4385	-2.5430	0	2.5430	85
## 4386	2.2652	0	2.2652	86
## 4387	-2.2311	0	2.2311	87
## 4388	-2.0099	0	2.0099	88
## 4389	1.9647	0	1.9647	89
## 4390	-1.7598	0	1.7598	90
## 4391	1.5121	0	1.5121	91
## 4392	-1.4209	0	1.4209	92
## 4393	-1.2802	0	1.2802	93
## 4394	1.2291	0	1.2291	94

##	4395	-0.9557	0	0.9557	95
##	4396	0.9477	0	0.9477	96
##	4397	0.5711	0	0.5711	97
##	4398	-0.4545	0	0.4545	98
##	4399	0.1941	0	0.1941	99
##	4400	-0.0033	0	0.0033	100
##	4401	19.6719	0	19.6719	1
##	4402	-19.3881	0	19.3881	2
##	4403	-18.8156	0	18.8156	3
##	4404	18.0274	0	18.0274	4
##	4405	-17.6618	0	17.6618	5
##	4406	17.1671	0	17.1671	6
##	4407	16.7293	0	16.7293	7
##	4408	-16.7119	0	16.7119	8
##	4409	-16.3085	0	16.3085	9
##	4410	-16.0492	0	16.0492	10
##	4411	16.0393	0	16.0393	11
##	4412	15.2903	0	15.2903	12
##	4413	-15.0726	0	15.0726	13
##	4414	15.0290	0	15.0290	14
##	4415	14.6985	0	14.6985	15
##	4416	-14.6311	0	14.6311	16
##	4417	14.3085	0	14.3085	17
##	4418	-14.3008	0	14.3008	18
##	4419	14.0921	0	14.0921	19
##	4420	-13.6201	0	13.6201	20
##	4421	13.5555	0	13.5555	21
##	4422	-13.5297	0	13.5297	22
##	4423	-13.1520	0	13.1520	23
##	4424	12.8722	0	12.8722	24
##	4425	-12.5388	0	12.5388	25
##	4426	12.5075	0	12.5075	26
##	4427	-12.0737	0	12.0737	27
##	4428	11.9514	0	11.9514	28
##	4429	-11.7031	0	11.7031	29
##	4430	11.6691	0	11.6691	30
##	4431	-11.3282	0	11.3282	31
##	4432	11.2502	0	11.2502	32
##	4433	-10.9532	0	10.9532	33
##	4434	10.8678	0	10.8678	34
##	4435	10.6090	0	10.6090	35
##	4436	-10.5687	0	10.5687	36
##	4437	10.2166	0	10.2166	37
##	4438	-10.1867	0	10.1867	38
##	4439	9.5481	0	9.5481	39
##	4440	-9.5047	0	9.5047	40
##	4441	9.4475	0	9.4475	41
##	4442	-9.3445	0	9.3445	42
##	4443	-9.2657	0	9.2657	43
##	4444	9.1836	0	9.1836	44
##	4445	9.0338	0	9.0338	45
##	4446	-8.8690	0	8.8690	46
##	4447	8.7609	0	8.7609	47
##	4448	-8.5963	0	8.5963	48

## 4449	8.4685	0	8.4685	49
## 4450	-8.3279	0	8.3279	50
## 4451	8.1105	0	8.1105	51
## 4452	7.9770	0	7.9770	52
## 4453	-7.9109	0	7.9109	53
## 4454	-7.8018	0	7.8018	54
## 4455	7.2802	0	7.2802	55
## 4456	-7.2248	0	7.2248	56
## 4457	-6.8957	0	6.8957	57
## 4458	6.8763	0	6.8763	58
## 4459	-6.5660	0	6.5660	59
## 4460	6.4783	0	6.4783	60
## 4461	-6.3832	0	6.3832	61
## 4462	6.2068	0	6.2068	62
## 4463	-6.0661	0	6.0661	63
## 4464	5.9863	0	5.9863	64
## 4465	5.6373	0	5.6373	65
## 4466	-5.6247	0	5.6247	66
## 4467	-5.2708	0	5.2708	67
## 4468	5.1879	0	5.1879	68
## 4469	-5.1336	0	5.1336	69
## 4470	-4.8180	0	4.8180	70
## 4471	4.7680	0	4.7680	71
## 4472	-4.5011	0	4.5011	72
## 4473	4.3963	0	4.3963	73
## 4474	4.0523	0	4.0523	74
## 4475	-4.0274	0	4.0274	75
## 4476	-3.7496	0	3.7496	76
## 4477	3.6558	0	3.6558	77
## 4478	3.4922	0	3.4922	78
## 4479	-3.4507	0	3.4507	79
## 4480	-3.1541	0	3.1541	80
## 4481	3.1092	0	3.1092	81
## 4482	2.8701	0	2.8701	82
## 4483	-2.8072	0	2.8072	83
## 4484	-2.4275	0	2.4275	84
## 4485	2.3842	0	2.3842	85
## 4486	-2.2385	0	2.2385	86
## 4487	2.0477	0	2.0477	87
## 4488	-1.9414	0	1.9414	88
## 4489	1.7626	0	1.7626	89
## 4490	-1.7058	0	1.7058	90
## 4491	1.6160	0	1.6160	91
## 4492	1.3341	0	1.3341	92
## 4493	-1.1896	0	1.1896	93
## 4494	-1.0312	0	1.0312	94
## 4495	0.9013	0	0.9013	95
## 4496	-0.7471	0	0.7471	96
## 4497	0.5799	0	0.5799	97
## 4498	0.3563	0	0.3563	98
## 4499	-0.2963	0	0.2963	99
## 4500	-0.0743	0	0.0743	100
## 4501	18.7118	0	18.7118	1
## 4502	-18.7049	0	18.7049	2

##	4503	-18.2167	0	18.2167	3
##	4504	17.9169	0	17.9169	4
##	4505	-17.5046	0	17.5046	5
##	4506	17.4195	0	17.4195	6
##	4507	-16.8547	0	16.8547	7
##	4508	16.5818	0	16.5818	8
##	4509	16.4106	0	16.4106	9
##	4510	-16.3600	0	16.3600	10
##	4511	-15.9761	0	15.9761	11
##	4512	15.7039	0	15.7039	12
##	4513	-15.5479	0	15.5479	13
##	4514	15.4630	0	15.4630	14
##	4515	-15.0560	0	15.0560	15
##	4516	14.8095	0	14.8095	16
##	4517	-14.5470	0	14.5470	17
##	4518	14.5038	0	14.5038	18
##	4519	-14.2885	0	14.2885	19
##	4520	13.8828	0	13.8828	20
##	4521	-13.5933	0	13.5933	21
##	4522	13.5825	0	13.5825	22
##	4523	-13.0492	0	13.0492	23
##	4524	12.9008	0	12.9008	24
##	4525	-12.8851	0	12.8851	25
##	4526	12.5297	0	12.5297	26
##	4527	12.4051	0	12.4051	27
##	4528	-12.3487	0	12.3487	28
##	4529	12.0851	0	12.0851	29
##	4530	-11.9013	0	11.9013	30
##	4531	-11.7228	0	11.7228	31
##	4532	11.3672	0	11.3672	32
##	4533	-11.2692	0	11.2692	33
##	4534	-11.1016	0	11.1016	34
##	4535	10.9797	0	10.9797	35
##	4536	-10.6420	0	10.6420	36
##	4537	10.5559	0	10.5559	37
##	4538	-10.4707	0	10.4707	38
##	4539	10.1286	0	10.1286	39
##	4540	10.0128	0	10.0128	40
##	4541	-9.6883	0	9.6883	41
##	4542	9.6109	0	9.6109	42
##	4543	-9.4973	0	9.4973	43
##	4544	9.3548	0	9.3548	44
##	4545	9.1113	0	9.1113	45
##	4546	-8.8269	0	8.8269	46
##	4547	8.5832	0	8.5832	47
##	4548	-8.4921	0	8.4921	48
##	4549	-8.3951	0	8.3951	49
##	4550	8.0861	0	8.0861	50
##	4551	-7.7316	0	7.7316	51
##	4552	7.5784	0	7.5784	52
##	4553	-7.4715	0	7.4715	53
##	4554	7.3382	0	7.3382	54
##	4555	7.2406	0	7.2406	55
##	4556	-7.1650	0	7.1650	56

## 4557	-6.7301	0	6.7301	57
## 4558	6.6727	0	6.6727	58
## 4559	-6.5747	0	6.5747	59
## 4560	6.4241	0	6.4241	60
## 4561	6.3253	0	6.3253	61
## 4562	-6.1622	0	6.1622	62
## 4563	-5.7790	0	5.7790	63
## 4564	5.6922	0	5.6922	64
## 4565	-5.6337	0	5.6337	65
## 4566	5.6263	0	5.6263	66
## 4567	5.3915	0	5.3915	67
## 4568	-5.1608	0	5.1608	68
## 4569	5.0736	0	5.0736	69
## 4570	-5.0241	0	5.0241	70
## 4571	-4.6036	0	4.6036	71
## 4572	4.5797	0	4.5797	72
## 4573	-4.3537	0	4.3537	73
## 4574	4.2481	0	4.2481	74
## 4575	4.0324	0	4.0324	75
## 4576	-3.9779	0	3.9779	76
## 4577	3.6626	0	3.6626	77
## 4578	-3.6560	0	3.6560	78
## 4579	-3.3805	0	3.3805	79
## 4580	3.3691	0	3.3691	80
## 4581	-3.1255	0	3.1255	81
## 4582	2.8735	0	2.8735	82
## 4583	-2.8391	0	2.8391	83
## 4584	2.6331	0	2.6331	84
## 4585	-2.4975	0	2.4975	85
## 4586	-2.3397	0	2.3397	86
## 4587	2.1173	0	2.1173	87
## 4588	1.9540	0	1.9540	88
## 4589	-1.8318	0	1.8318	89
## 4590	1.5241	0	1.5241	90
## 4591	1.3936	0	1.3936	91
## 4592	-1.3494	0	1.3494	92
## 4593	1.2539	0	1.2539	93
## 4594	-0.9954	0	0.9954	94
## 4595	-0.7018	0	0.7018	95
## 4596	0.6101	0	0.6101	96
## 4597	-0.5970	0	0.5970	97
## 4598	0.4065	0	0.4065	98
## 4599	-0.3493	0	0.3493	99
## 4600	0.2021	0	0.2021	100
## 4601	18.8012	0	18.8012	1
## 4602	-18.7905	0	18.7905	2
## 4603	-18.0729	0	18.0729	3
## 4604	17.7054	0	17.7054	4
## 4605	17.3192	0	17.3192	5
## 4606	-17.2066	0	17.2066	6
## 4607	16.8056	0	16.8056	7
## 4608	-16.6771	0	16.6771	8
## 4609	16.4054	0	16.4054	9
## 4610	-16.1871	0	16.1871	10

## 4611	-15.7132	0	15.7132	11
## 4612	15.6904	0	15.6904	12
## 4613	-15.4518	0	15.4518	13
## 4614	-15.2448	0	15.2448	14
## 4615	14.9393	0	14.9393	15
## 4616	14.5839	0	14.5839	16
## 4617	-14.4353	0	14.4353	17
## 4618	-14.3036	0	14.3036	18
## 4619	14.0502	0	14.0502	19
## 4620	13.5461	0	13.5461	20
## 4621	-13.4863	0	13.4863	21
## 4622	-13.2351	0	13.2351	22
## 4623	12.8242	0	12.8242	23
## 4624	12.6750	0	12.6750	24
## 4625	-12.4826	0	12.4826	25
## 4626	-12.3324	0	12.3324	26
## 4627	12.2750	0	12.2750	27
## 4628	-12.1067	0	12.1067	28
## 4629	11.8974	0	11.8974	29
## 4630	-11.8206	0	11.8206	30
## 4631	11.4548	0	11.4548	31
## 4632	-11.3990	0	11.3990	32
## 4633	-11.1291	0	11.1291	33
## 4634	11.0685	0	11.0685	34
## 4635	10.7896	0	10.7896	35
## 4636	10.6818	0	10.6818	36
## 4637	-10.6314	0	10.6314	37
## 4638	-10.3734	0	10.3734	38
## 4639	-10.2336	0	10.2336	39
## 4640	-9.9644	0	9.9644	40
## 4641	9.8715	0	9.8715	41
## 4642	9.6299	0	9.6299	42
## 4643	9.4163	0	9.4163	43
## 4644	-9.3373	0	9.3373	44
## 4645	9.0328	0	9.0328	45
## 4646	-8.7963	0	8.7963	46
## 4647	8.7142	0	8.7142	47
## 4648	8.4295	0	8.4295	48
## 4649	-8.4271	0	8.4271	49
## 4650	-8.2747	0	8.2747	50
## 4651	8.1135	0	8.1135	51
## 4652	-7.9711	0	7.9711	52
## 4653	-7.6247	0	7.6247	53
## 4654	7.6193	0	7.6193	54
## 4655	7.3873	0	7.3873	55
## 4656	-7.1802	0	7.1802	56
## 4657	7.1236	0	7.1236	57
## 4658	6.9503	0	6.9503	58
## 4659	-6.8651	0	6.8651	59
## 4660	6.5694	0	6.5694	60
## 4661	-6.5346	0	6.5346	61
## 4662	6.2208	0	6.2208	62
## 4663	-6.0476	0	6.0476	63
## 4664	5.8811	0	5.8811	64

## 4665	5.6818	0	5.6818	65
## 4666	-5.6682	0	5.6682	66
## 4667	-5.2489	0	5.2489	67
## 4668	5.0079	0	5.0079	68
## 4669	-4.9444	0	4.9444	69
## 4670	-4.8304	0	4.8304	70
## 4671	4.7663	0	4.7663	71
## 4672	-4.5724	0	4.5724	72
## 4673	4.4256	0	4.4256	73
## 4674	-4.2974	0	4.2974	74
## 4675	4.1101	0	4.1101	75
## 4676	3.9302	0	3.9302	76
## 4677	-3.7955	0	3.7955	77
## 4678	3.5461	0	3.5461	78
## 4679	-3.5146	0	3.5146	79
## 4680	3.2401	0	3.2401	80
## 4681	-3.1032	0	3.1032	81
## 4682	-2.8662	0	2.8662	82
## 4683	2.7828	0	2.7828	83
## 4684	2.5551	0	2.5551	84
## 4685	-2.5193	0	2.5193	85
## 4686	-2.2981	0	2.2981	86
## 4687	2.1097	0	2.1097	87
## 4688	1.7713	0	1.7713	88
## 4689	-1.7064	0	1.7064	89
## 4690	1.3902	0	1.3902	90
## 4691	-1.2192	0	1.2192	91
## 4692	1.2141	0	1.2141	92
## 4693	-0.9632	0	0.9632	93
## 4694	0.8089	0	0.8089	94
## 4695	-0.7907	0	0.7907	95
## 4696	0.6272	0	0.6272	96
## 4697	-0.4796	0	0.4796	97
## 4698	0.2665	0	0.2665	98
## 4699	-0.2429	0	0.2429	99
## 4700	0.0016	0	0.0016	100
## 4701	19.4101	0	19.4101	1
## 4702	-18.8611	0	18.8611	2
## 4703	-18.5475	0	18.5475	3
## 4704	18.1554	0	18.1554	4
## 4705	17.8474	0	17.8474	5
## 4706	-17.7622	0	17.7622	6
## 4707	-16.7655	0	16.7655	7
## 4708	16.7617	0	16.7617	8
## 4709	-16.4081	0	16.4081	9
## 4710	16.4049	0	16.4049	10
## 4711	15.8340	0	15.8340	11
## 4712	-15.7142	0	15.7142	12
## 4713	-15.3926	0	15.3926	13
## 4714	15.3889	0	15.3889	14
## 4715	15.1708	0	15.1708	15
## 4716	-14.8399	0	14.8399	16
## 4717	14.6580	0	14.6580	17
## 4718	-14.3328	0	14.3328	18

## 4719	14.0959	0	14.0959	19
## 4720	-13.8457	0	13.8457	20
## 4721	-13.5226	0	13.5226	21
## 4722	13.4642	0	13.4642	22
## 4723	-13.1430	0	13.1430	23
## 4724	12.8872	0	12.8872	24
## 4725	-12.7872	0	12.7872	25
## 4726	12.5883	0	12.5883	26
## 4727	-12.0905	0	12.0905	27
## 4728	11.9273	0	11.9273	28
## 4729	-11.8173	0	11.8173	29
## 4730	11.5963	0	11.5963	30
## 4731	-11.5116	0	11.5116	31
## 4732	11.4128	0	11.4128	32
## 4733	11.1498	0	11.1498	33
## 4734	-11.1383	0	11.1383	34
## 4735	-10.7905	0	10.7905	35
## 4736	10.7774	0	10.7774	36
## 4737	-10.4179	0	10.4179	37
## 4738	10.3301	0	10.3301	38
## 4739	-10.0718	0	10.0718	39
## 4740	-9.9916	0	9.9916	40
## 4741	9.7636	0	9.7636	41
## 4742	9.6477	0	9.6477	42
## 4743	-9.3184	0	9.3184	43
## 4744	9.2640	0	9.2640	44
## 4745	9.2117	0	9.2117	45
## 4746	-8.8393	0	8.8393	46
## 4747	8.6593	0	8.6593	47
## 4748	-8.4457	0	8.4457	48
## 4749	8.0579	0	8.0579	49
## 4750	-7.9172	0	7.9172	50
## 4751	7.8535	0	7.8535	51
## 4752	-7.7218	0	7.7218	52
## 4753	7.6785	0	7.6785	53
## 4754	-7.4235	0	7.4235	54
## 4755	7.2721	0	7.2721	55
## 4756	6.9998	0	6.9998	56
## 4757	-6.9588	0	6.9588	57
## 4758	6.8444	0	6.8444	58
## 4759	-6.7185	0	6.7185	59
## 4760	-6.4633	0	6.4633	60
## 4761	6.3564	0	6.3564	61
## 4762	-6.0370	0	6.0370	62
## 4763	5.9426	0	5.9426	63
## 4764	-5.7225	0	5.7225	64
## 4765	-5.4724	0	5.4724	65
## 4766	5.4508	0	5.4508	66
## 4767	5.2474	0	5.2474	67
## 4768	-5.1254	0	5.1254	68
## 4769	-4.8260	0	4.8260	69
## 4770	4.8127	0	4.8127	70
## 4771	4.7061	0	4.7061	71
## 4772	-4.5204	0	4.5204	72

## 4773	4.3211	0	4.3211	73
## 4774	-4.2806	0	4.2806	74
## 4775	4.1487	0	4.1487	75
## 4776	-3.7597	0	3.7597	76
## 4777	-3.7013	0	3.7013	77
## 4778	3.6217	0	3.6217	78
## 4779	-3.4807	0	3.4807	79
## 4780	3.3913	0	3.3913	80
## 4781	-3.0689	0	3.0689	81
## 4782	2.9697	0	2.9697	82
## 4783	2.7871	0	2.7871	83
## 4784	-2.6460	0	2.6460	84
## 4785	-2.5755	0	2.5755	85
## 4786	2.5103	0	2.5103	86
## 4787	-2.0254	0	2.0254	87
## 4788	-1.7988	0	1.7988	88
## 4789	1.7710	0	1.7710	89
## 4790	1.4942	0	1.4942	90
## 4791	1.4206	0	1.4206	91
## 4792	-1.3087	0	1.3087	92
## 4793	-1.1777	0	1.1777	93
## 4794	1.1015	0	1.1015	94
## 4795	-0.7371	0	0.7371	95
## 4796	0.4522	0	0.4522	96
## 4797	-0.3806	0	0.3806	97
## 4798	0.3270	0	0.3270	98
## 4799	-0.1770	0	0.1770	99
## 4800	0.1548	0	0.1548	100
## 4801	19.2332	0	19.2332	1
## 4802	-18.7877	0	18.7877	2
## 4803	18.0588	0	18.0588	3
## 4804	-17.7243	0	17.7243	4
## 4805	17.6044	0	17.6044	5
## 4806	-17.2688	0	17.2688	6
## 4807	17.0002	0	17.0002	7
## 4808	-16.4524	0	16.4524	8
## 4809	16.2269	0	16.2269	9
## 4810	16.0157	0	16.0157	10
## 4811	-15.8040	0	15.8040	11
## 4812	15.5528	0	15.5528	12
## 4813	-15.4564	0	15.4564	13
## 4814	-15.1823	0	15.1823	14
## 4815	14.8317	0	14.8317	15
## 4816	-14.4360	0	14.4360	16
## 4817	14.3570	0	14.3570	17
## 4818	-14.3419	0	14.3419	18
## 4819	-13.9061	0	13.9061	19
## 4820	13.8385	0	13.8385	20
## 4821	13.4335	0	13.4335	21
## 4822	-13.3932	0	13.3932	22
## 4823	-13.1837	0	13.1837	23
## 4824	13.0198	0	13.0198	24
## 4825	12.8838	0	12.8838	25
## 4826	-12.6451	0	12.6451	26

## 4827	12.4794	0	12.4794	27
## 4828	12.0742	0	12.0742	28
## 4829	-12.0241	0	12.0241	29
## 4830	11.7213	0	11.7213	30
## 4831	-11.4510	0	11.4510	31
## 4832	11.2112	0	11.2112	32
## 4833	-11.2078	0	11.2078	33
## 4834	-11.0582	0	11.0582	34
## 4835	10.7961	0	10.7961	35
## 4836	-10.4291	0	10.4291	36
## 4837	10.3098	0	10.3098	37
## 4838	-10.1844	0	10.1844	38
## 4839	10.0778	0	10.0778	39
## 4840	-9.6563	0	9.6563	40
## 4841	9.6204	0	9.6204	41
## 4842	-9.5254	0	9.5254	42
## 4843	9.1650	0	9.1650	43
## 4844	9.1155	0	9.1155	44
## 4845	-9.0904	0	9.0904	45
## 4846	-8.8449	0	8.8449	46
## 4847	8.7492	0	8.7492	47
## 4848	-8.3934	0	8.3934	48
## 4849	8.3087	0	8.3087	49
## 4850	-8.1977	0	8.1977	50
## 4851	8.1255	0	8.1255	51
## 4852	-7.9010	0	7.9010	52
## 4853	7.7591	0	7.7591	53
## 4854	-7.6288	0	7.6288	54
## 4855	7.4397	0	7.4397	55
## 4856	7.0832	0	7.0832	56
## 4857	-7.0179	0	7.0179	57
## 4858	6.7873	0	6.7873	58
## 4859	-6.5831	0	6.5831	59
## 4860	6.3390	0	6.3390	60
## 4861	-6.2235	0	6.2235	61
## 4862	6.1460	0	6.1460	62
## 4863	-5.8507	0	5.8507	63
## 4864	5.5135	0	5.5135	64
## 4865	-5.3952	0	5.3952	65
## 4866	5.3296	0	5.3296	66
## 4867	-5.2058	0	5.2058	67
## 4868	5.0920	0	5.0920	68
## 4869	-4.7957	0	4.7957	69
## 4870	-4.6944	0	4.6944	70
## 4871	4.6444	0	4.6444	71
## 4872	4.5154	0	4.5154	72
## 4873	-4.2743	0	4.2743	73
## 4874	-4.1475	0	4.1475	74
## 4875	4.0714	0	4.0714	75
## 4876	-3.8442	0	3.8442	76
## 4877	3.7367	0	3.7367	77
## 4878	-3.3057	0	3.3057	78
## 4879	3.2463	0	3.2463	79
## 4880	-3.1850	0	3.1850	80

## 4881	3.0371	0	3.0371	81
## 4882	-3.0261	0	3.0261	82
## 4883	2.6879	0	2.6879	83
## 4884	-2.6842	0	2.6842	84
## 4885	-2.4525	0	2.4525	85
## 4886	2.3142	0	2.3142	86
## 4887	-2.1366	0	2.1366	87
## 4888	2.0069	0	2.0069	88
## 4889	-1.8443	0	1.8443	89
## 4890	1.5613	0	1.5613	90
## 4891	1.3213	0	1.3213	91
## 4892	-1.3023	0	1.3023	92
## 4893	1.1360	0	1.1360	93
## 4894	-1.0487	0	1.0487	94
## 4895	0.8044	0	0.8044	95
## 4896	-0.4728	0	0.4728	96
## 4897	0.4655	0	0.4655	97
## 4898	-0.3663	0	0.3663	98
## 4899	0.2745	0	0.2745	99
## 4900	-0.0014	0	0.0014	100
## 4901	-19.3401	0	19.3401	1
## 4902	19.0591	0	19.0591	2
## 4903	-18.8084	0	18.8084	3
## 4904	18.3047	0	18.3047	4
## 4905	-17.7699	0	17.7699	5
## 4906	17.5476	0	17.5476	6
## 4907	-16.9069	0	16.9069	7
## 4908	16.6545	0	16.6545	8
## 4909	-16.3253	0	16.3253	9
## 4910	-16.2137	0	16.2137	10
## 4911	16.1848	0	16.1848	11
## 4912	15.8476	0	15.8476	12
## 4913	-15.5633	0	15.5633	13
## 4914	15.4903	0	15.4903	14
## 4915	-15.1519	0	15.1519	15
## 4916	14.7686	0	14.7686	16
## 4917	-14.5942	0	14.5942	17
## 4918	14.3714	0	14.3714	18
## 4919	-14.1861	0	14.1861	19
## 4920	13.4827	0	13.4827	20
## 4921	-13.4536	0	13.4536	21
## 4922	13.3963	0	13.3963	22
## 4923	-13.2130	0	13.2130	23
## 4924	12.9121	0	12.9121	24
## 4925	-12.8753	0	12.8753	25
## 4926	12.7109	0	12.7109	26
## 4927	-12.5547	0	12.5547	27
## 4928	11.9865	0	11.9865	28
## 4929	-11.9415	0	11.9415	29
## 4930	11.7125	0	11.7125	30
## 4931	-11.5206	0	11.5206	31
## 4932	11.3936	0	11.3936	32
## 4933	-11.0807	0	11.0807	33
## 4934	-10.8307	0	10.8307	34

## 4935	10.8228	0	10.8228	35
## 4936	-10.4630	0	10.4630	36
## 4937	-10.3079	0	10.3079	37
## 4938	10.3036	0	10.3036	38
## 4939	10.0549	0	10.0549	39
## 4940	-9.9304	0	9.9304	40
## 4941	9.6940	0	9.6940	41
## 4942	9.4217	0	9.4217	42
## 4943	-9.3715	0	9.3715	43
## 4944	9.0185	0	9.0185	44
## 4945	-9.0086	0	9.0086	45
## 4946	8.8071	0	8.8071	46
## 4947	-8.4992	0	8.4992	47
## 4948	8.3462	0	8.3462	48
## 4949	-8.2194	0	8.2194	49
## 4950	8.0296	0	8.0296	50
## 4951	-7.8845	0	7.8845	51
## 4952	-7.6909	0	7.6909	52
## 4953	-7.5132	0	7.5132	53
## 4954	7.4915	0	7.4915	54
## 4955	7.2297	0	7.2297	55
## 4956	7.0935	0	7.0935	56
## 4957	-6.9376	0	6.9376	57
## 4958	-6.8538	0	6.8538	58
## 4959	6.7957	0	6.7957	59
## 4960	6.2360	0	6.2360	60
## 4961	-6.1428	0	6.1428	61
## 4962	-5.9949	0	5.9949	62
## 4963	5.9191	0	5.9191	63
## 4964	5.8031	0	5.8031	64
## 4965	-5.6518	0	5.6518	65
## 4966	5.5137	0	5.5137	66
## 4967	-5.1552	0	5.1552	67
## 4968	-5.0550	0	5.0550	68
## 4969	4.9931	0	4.9931	69
## 4970	-4.6403	0	4.6403	70
## 4971	-4.5632	0	4.5632	71
## 4972	4.5473	0	4.5473	72
## 4973	4.4707	0	4.4707	73
## 4974	-4.1498	0	4.1498	74
## 4975	4.1171	0	4.1171	75
## 4976	3.8861	0	3.8861	76
## 4977	-3.7443	0	3.7443	77
## 4978	3.4314	0	3.4314	78
## 4979	-3.2927	0	3.2927	79
## 4980	-3.1048	0	3.1048	80
## 4981	3.0641	0	3.0641	81
## 4982	-2.6449	0	2.6449	82
## 4983	2.6119	0	2.6119	83
## 4984	2.4939	0	2.4939	84
## 4985	-2.2205	0	2.2205	85
## 4986	2.2176	0	2.2176	86
## 4987	-2.0854	0	2.0854	87
## 4988	1.8425	0	1.8425	88

## 4989	-1.7201	0	1.7201	89
## 4990	1.4308	0	1.4308	90
## 4991	-1.4157	0	1.4157	91
## 4992	-1.3379	0	1.3379	92
## 4993	1.2318	0	1.2318	93
## 4994	-0.8715	0	0.8715	94
## 4995	0.7519	0	0.7519	95
## 4996	-0.5605	0	0.5605	96
## 4997	0.5330	0	0.5330	97
## 4998	0.4173	0	0.4173	98
## 4999	-0.1414	0	0.1414	99
## 5000	0.0446	0	0.0446	100
## 5001	18.7613	0	18.7613	1
## 5002	18.6387	0	18.6387	2
## 5003	-18.6231	0	18.6231	3
## 5004	-17.9880	0	17.9880	4
## 5005	17.9529	0	17.9529	5
## 5006	-17.4224	0	17.4224	6
## 5007	17.1729	0	17.1729	7
## 5008	-16.6950	0	16.6950	8
## 5009	16.3511	0	16.3511	9
## 5010	-16.2172	0	16.2172	10
## 5011	16.0819	0	16.0819	11
## 5012	15.8185	0	15.8185	12
## 5013	-15.7686	0	15.7686	13
## 5014	15.5901	0	15.5901	14
## 5015	-15.4585	0	15.4585	15
## 5016	-14.8223	0	14.8223	16
## 5017	-14.3914	0	14.3914	17
## 5018	14.2307	0	14.2307	18
## 5019	13.8719	0	13.8719	19
## 5020	-13.7085	0	13.7085	20
## 5021	-13.4265	0	13.4265	21
## 5022	13.2626	0	13.2626	22
## 5023	13.1703	0	13.1703	23
## 5024	-13.0567	0	13.0567	24
## 5025	12.8833	0	12.8833	25
## 5026	-12.7226	0	12.7226	26
## 5027	12.3251	0	12.3251	27
## 5028	-12.2643	0	12.2643	28
## 5029	-11.8119	0	11.8119	29
## 5030	11.7745	0	11.7745	30
## 5031	-11.4887	0	11.4887	31
## 5032	11.3226	0	11.3226	32
## 5033	-11.2422	0	11.2422	33
## 5034	11.2132	0	11.2132	34
## 5035	-10.9533	0	10.9533	35
## 5036	10.4597	0	10.4597	36
## 5037	-10.4225	0	10.4225	37
## 5038	10.4060	0	10.4060	38
## 5039	10.1496	0	10.1496	39
## 5040	-10.0581	0	10.0581	40
## 5041	-9.7654	0	9.7654	41
## 5042	9.7021	0	9.7021	42

## 5043	9.3427	0	9.3427	43
## 5044	-9.2049	0	9.2049	44
## 5045	-9.1060	0	9.1060	45
## 5046	8.9224	0	8.9224	46
## 5047	-8.6848	0	8.6848	47
## 5048	8.4482	0	8.4482	48
## 5049	-8.2869	0	8.2869	49
## 5050	8.2109	0	8.2109	50
## 5051	8.0336	0	8.0336	51
## 5052	-7.9518	0	7.9518	52
## 5053	-7.6361	0	7.6361	53
## 5054	7.3960	0	7.3960	54
## 5055	-7.3660	0	7.3660	55
## 5056	-7.1754	0	7.1754	56
## 5057	7.0352	0	7.0352	57
## 5058	-6.8440	0	6.8440	58
## 5059	6.7292	0	6.7292	59
## 5060	-6.5558	0	6.5558	60
## 5061	6.5118	0	6.5118	61
## 5062	6.0163	0	6.0163	62
## 5063	5.8382	0	5.8382	63
## 5064	-5.8196	0	5.8196	64
## 5065	-5.6487	0	5.6487	65
## 5066	5.4406	0	5.4406	66
## 5067	-5.3669	0	5.3669	67
## 5068	-5.2645	0	5.2645	68
## 5069	5.2145	0	5.2145	69
## 5070	5.1351	0	5.1351	70
## 5071	-5.0103	0	5.0103	71
## 5072	4.5773	0	4.5773	72
## 5073	-4.5756	0	4.5756	73
## 5074	4.3134	0	4.3134	74
## 5075	-4.1398	0	4.1398	75
## 5076	-3.8007	0	3.8007	76
## 5077	3.7846	0	3.7846	77
## 5078	3.5946	0	3.5946	78
## 5079	-3.2860	0	3.2860	79
## 5080	3.2782	0	3.2782	80
## 5081	2.9783	0	2.9783	81
## 5082	-2.9672	0	2.9672	82
## 5083	-2.7772	0	2.7772	83
## 5084	2.6913	0	2.6913	84
## 5085	2.4431	0	2.4431	85
## 5086	-2.3708	0	2.3708	86
## 5087	2.1373	0	2.1373	87
## 5088	-2.0381	0	2.0381	88
## 5089	-1.8282	0	1.8282	89
## 5090	1.7263	0	1.7263	90
## 5091	-1.4029	0	1.4029	91
## 5092	-1.0951	0	1.0951	92
## 5093	1.0673	0	1.0673	93
## 5094	-1.0080	0	1.0080	94
## 5095	0.7584	0	0.7584	95
## 5096	-0.7524	0	0.7524	96

## 5097	0.4601	0	0.4601	97
## 5098	-0.3823	0	0.3823	98
## 5099	-0.2606	0	0.2606	99
## 5100	0.2496	0	0.2496	100
## 5101	19.7305	0	19.7305	1
## 5102	-19.0488	0	19.0488	2
## 5103	18.5044	0	18.5044	3
## 5104	-18.1099	0	18.1099	4
## 5105	17.9865	0	17.9865	5
## 5106	17.3564	0	17.3564	6
## 5107	-17.1155	0	17.1155	7
## 5108	16.8893	0	16.8893	8
## 5109	-16.3406	0	16.3406	9
## 5110	16.1581	0	16.1581	10
## 5111	-15.8583	0	15.8583	11
## 5112	15.6127	0	15.6127	12
## 5113	-15.2875	0	15.2875	13
## 5114	-14.9597	0	14.9597	14
## 5115	14.9591	0	14.9591	15
## 5116	-14.5269	0	14.5269	16
## 5117	14.4137	0	14.4137	17
## 5118	-14.2558	0	14.2558	18
## 5119	14.2357	0	14.2357	19
## 5120	-13.8981	0	13.8981	20
## 5121	-13.3694	0	13.3694	21
## 5122	13.2825	0	13.2825	22
## 5123	12.9997	0	12.9997	23
## 5124	-12.8748	0	12.8748	24
## 5125	-12.5694	0	12.5694	25
## 5126	12.4955	0	12.4955	26
## 5127	12.3211	0	12.3211	27
## 5128	-12.0978	0	12.0978	28
## 5129	12.0272	0	12.0272	29
## 5130	-11.8562	0	11.8562	30
## 5131	11.4737	0	11.4737	31
## 5132	-11.3344	0	11.3344	32
## 5133	11.1581	0	11.1581	33
## 5134	-10.8226	0	10.8226	34
## 5135	10.6785	0	10.6785	35
## 5136	-10.5278	0	10.5278	36
## 5137	10.1939	0	10.1939	37
## 5138	-10.0732	0	10.0732	38
## 5139	9.8127	0	9.8127	39
## 5140	-9.7369	0	9.7369	40
## 5141	-9.5004	0	9.5004	41
## 5142	9.4938	0	9.4938	42
## 5143	9.2783	0	9.2783	43
## 5144	-9.2047	0	9.2047	44
## 5145	8.8796	0	8.8796	45
## 5146	-8.7048	0	8.7048	46
## 5147	-8.5841	0	8.5841	47
## 5148	8.5710	0	8.5710	48
## 5149	-8.2220	0	8.2220	49
## 5150	8.1186	0	8.1186	50

## 5151	7.8657	0	7.8657	51
## 5152	-7.6986	0	7.6986	52
## 5153	7.5689	0	7.5689	53
## 5154	-7.4436	0	7.4436	54
## 5155	7.1922	0	7.1922	55
## 5156	-7.1179	0	7.1179	56
## 5157	6.9800	0	6.9800	57
## 5158	6.7470	0	6.7470	58
## 5159	-6.7298	0	6.7298	59
## 5160	-6.3469	0	6.3469	60
## 5161	6.2060	0	6.2060	61
## 5162	5.8857	0	5.8857	62
## 5163	-5.8756	0	5.8756	63
## 5164	-5.6623	0	5.6623	64
## 5165	5.4255	0	5.4255	65
## 5166	5.2547	0	5.2547	66
## 5167	-5.1445	0	5.1445	67
## 5168	-4.9558	0	4.9558	68
## 5169	4.9153	0	4.9153	69
## 5170	-4.6057	0	4.6057	70
## 5171	4.4771	0	4.4771	71
## 5172	-4.3989	0	4.3989	72
## 5173	4.1118	0	4.1118	73
## 5174	-3.8357	0	3.8357	74
## 5175	3.7794	0	3.7794	75
## 5176	-3.6530	0	3.6530	76
## 5177	3.5324	0	3.5324	77
## 5178	-3.2980	0	3.2980	78
## 5179	3.0899	0	3.0899	79
## 5180	-2.9964	0	2.9964	80
## 5181	2.8799	0	2.8799	81
## 5182	-2.7390	0	2.7390	82
## 5183	2.6130	0	2.6130	83
## 5184	-2.4354	0	2.4354	84
## 5185	2.2365	0	2.2365	85
## 5186	-2.1240	0	2.1240	86
## 5187	-1.9474	0	1.9474	87
## 5188	1.9008	0	1.9008	88
## 5189	1.6062	0	1.6062	89
## 5190	-1.5868	0	1.5868	90
## 5191	-1.5249	0	1.5249	91
## 5192	1.3867	0	1.3867	92
## 5193	-1.1935	0	1.1935	93
## 5194	0.9989	0	0.9989	94
## 5195	0.8068	0	0.8068	95
## 5196	-0.7163	0	0.7163	96
## 5197	0.4879	0	0.4879	97
## 5198	-0.4115	0	0.4115	98
## 5199	-0.2517	0	0.2517	99
## 5200	0.1641	0	0.1641	100
## 5201	-19.3964	0	19.3964	1
## 5202	18.5358	0	18.5358	2
## 5203	-17.9999	0	17.9999	3
## 5204	17.6162	0	17.6162	4

##	5205	-17.6160	0	17.6160	5
##	5206	17.1771	0	17.1771	6
##	5207	-17.0132	0	17.0132	7
##	5208	16.8744	0	16.8744	8
##	5209	-16.2883	0	16.2883	9
##	5210	16.2447	0	16.2447	10
##	5211	15.9020	0	15.9020	11
##	5212	-15.8620	0	15.8620	12
##	5213	15.5423	0	15.5423	13
##	5214	15.1237	0	15.1237	14
##	5215	-14.9781	0	14.9781	15
##	5216	-14.5449	0	14.5449	16
##	5217	-14.3531	0	14.3531	17
##	5218	14.3344	0	14.3344	18
##	5219	14.1983	0	14.1983	19
##	5220	-13.7821	0	13.7821	20
##	5221	13.6413	0	13.6413	21
##	5222	-13.4428	0	13.4428	22
##	5223	13.1793	0	13.1793	23
##	5224	-13.1348	0	13.1348	24
##	5225	12.9379	0	12.9379	25
##	5226	12.5331	0	12.5331	26
##	5227	-12.5273	0	12.5273	27
##	5228	-12.3217	0	12.3217	28
##	5229	-12.0518	0	12.0518	29
##	5230	-11.7093	0	11.7093	30
##	5231	11.6902	0	11.6902	31
##	5232	11.5630	0	11.5630	32
##	5233	-11.5348	0	11.5348	33
##	5234	11.1314	0	11.1314	34
##	5235	-10.7577	0	10.7577	35
##	5236	10.4984	0	10.4984	36
##	5237	-10.3152	0	10.3152	37
##	5238	10.2480	0	10.2480	38
##	5239	-10.0295	0	10.0295	39
##	5240	9.8698	0	9.8698	40
##	5241	-9.6386	0	9.6386	41
##	5242	9.5456	0	9.5456	42
##	5243	-9.0596	0	9.0596	43
##	5244	8.9302	0	8.9302	44
##	5245	8.7520	0	8.7520	45
##	5246	-8.6939	0	8.6939	46
##	5247	8.4755	0	8.4755	47
##	5248	-8.4214	0	8.4214	48
##	5249	8.1524	0	8.1524	49
##	5250	-8.0384	0	8.0384	50
##	5251	-7.9460	0	7.9460	51
##	5252	-7.8285	0	7.8285	52
##	5253	7.7365	0	7.7365	53
##	5254	7.4447	0	7.4447	54
##	5255	-7.3641	0	7.3641	55
##	5256	7.2283	0	7.2283	56
##	5257	-7.0194	0	7.0194	57
##	5258	6.8432	0	6.8432	58

## 5259	6.5864	0	6.5864	59
## 5260	-6.5164	0	6.5164	60
## 5261	6.3295	0	6.3295	61
## 5262	-6.2408	0	6.2408	62
## 5263	5.7731	0	5.7731	63
## 5264	-5.6841	0	5.6841	64
## 5265	5.4850	0	5.4850	65
## 5266	-5.3976	0	5.3976	66
## 5267	5.3289	0	5.3289	67
## 5268	5.0103	0	5.0103	68
## 5269	-5.0056	0	5.0056	69
## 5270	-4.8482	0	4.8482	70
## 5271	4.6067	0	4.6067	71
## 5272	4.4877	0	4.4877	72
## 5273	-4.4629	0	4.4629	73
## 5274	-4.0709	0	4.0709	74
## 5275	3.9935	0	3.9935	75
## 5276	3.8089	0	3.8089	76
## 5277	-3.7896	0	3.7896	77
## 5278	3.5452	0	3.5452	78
## 5279	-3.5121	0	3.5121	79
## 5280	3.0726	0	3.0726	80
## 5281	-2.8552	0	2.8552	81
## 5282	2.7348	0	2.7348	82
## 5283	-2.7258	0	2.7258	83
## 5284	2.5526	0	2.5526	84
## 5285	-2.5305	0	2.5305	85
## 5286	-2.1859	0	2.1859	86
## 5287	2.1657	0	2.1657	87
## 5288	-1.9565	0	1.9565	88
## 5289	1.7284	0	1.7284	89
## 5290	1.5115	0	1.5115	90
## 5291	-1.3996	0	1.3996	91
## 5292	1.1212	0	1.1212	92
## 5293	-1.0840	0	1.0840	93
## 5294	-0.8515	0	0.8515	94
## 5295	0.8273	0	0.8273	95
## 5296	-0.6278	0	0.6278	96
## 5297	0.5013	0	0.5013	97
## 5298	0.3268	0	0.3268	98
## 5299	-0.2653	0	0.2653	99
## 5300	0.0730	0	0.0730	100
## 5301	19.6120	0	19.6120	1
## 5302	-19.0946	0	19.0946	2
## 5303	18.6376	0	18.6376	3
## 5304	-18.2898	0	18.2898	4
## 5305	-18.0293	0	18.0293	5
## 5306	17.9883	0	17.9883	6
## 5307	-17.6180	0	17.6180	7
## 5308	17.2229	0	17.2229	8
## 5309	-16.6938	0	16.6938	9
## 5310	16.5980	0	16.5980	10
## 5311	16.0708	0	16.0708	11
## 5312	-15.7772	0	15.7772	12

## 5313	15.4790	0	15.4790	13
## 5314	-15.2604	0	15.2604	14
## 5315	15.0027	0	15.0027	15
## 5316	14.7285	0	14.7285	16
## 5317	-14.5281	0	14.5281	17
## 5318	-14.3436	0	14.3436	18
## 5319	-14.1559	0	14.1559	19
## 5320	13.9029	0	13.9029	20
## 5321	-13.7741	0	13.7741	21
## 5322	13.5885	0	13.5885	22
## 5323	-13.2864	0	13.2864	23
## 5324	13.2332	0	13.2332	24
## 5325	-12.7463	0	12.7463	25
## 5326	-12.5635	0	12.5635	26
## 5327	12.5557	0	12.5557	27
## 5328	12.1003	0	12.1003	28
## 5329	-11.8500	0	11.8500	29
## 5330	11.7822	0	11.7822	30
## 5331	-11.6121	0	11.6121	31
## 5332	11.4864	0	11.4864	32
## 5333	11.2098	0	11.2098	33
## 5334	-11.1227	0	11.1227	34
## 5335	10.8907	0	10.8907	35
## 5336	-10.8403	0	10.8403	36
## 5337	10.6986	0	10.6986	37
## 5338	-10.4509	0	10.4509	38
## 5339	-10.2582	0	10.2582	39
## 5340	10.2418	0	10.2418	40
## 5341	9.8532	0	9.8532	41
## 5342	-9.7398	0	9.7398	42
## 5343	-9.5173	0	9.5173	43
## 5344	9.2374	0	9.2374	44
## 5345	9.0448	0	9.0448	45
## 5346	-8.9990	0	8.9990	46
## 5347	8.6782	0	8.6782	47
## 5348	-8.6049	0	8.6049	48
## 5349	8.4671	0	8.4671	49
## 5350	-8.3728	0	8.3728	50
## 5351	8.1859	0	8.1859	51
## 5352	-8.0675	0	8.0675	52
## 5353	7.8487	0	7.8487	53
## 5354	-7.8057	0	7.8057	54
## 5355	7.6754	0	7.6754	55
## 5356	-7.4453	0	7.4453	56
## 5357	7.2101	0	7.2101	57
## 5358	-7.0737	0	7.0737	58
## 5359	6.6932	0	6.6932	59
## 5360	-6.6514	0	6.6514	60
## 5361	-6.2447	0	6.2447	61
## 5362	6.2015	0	6.2015	62
## 5363	-6.0925	0	6.0925	63
## 5364	6.0494	0	6.0494	64
## 5365	-5.8549	0	5.8549	65
## 5366	5.7046	0	5.7046	66

## 5367	-5.4999	0	5.4999	67
## 5368	5.1301	0	5.1301	68
## 5369	-5.1062	0	5.1062	69
## 5370	4.9604	0	4.9604	70
## 5371	-4.8085	0	4.8085	71
## 5372	4.7331	0	4.7331	72
## 5373	-4.3870	0	4.3870	73
## 5374	4.2804	0	4.2804	74
## 5375	4.1781	0	4.1781	75
## 5376	-3.9241	0	3.9241	76
## 5377	3.7646	0	3.7646	77
## 5378	-3.7482	0	3.7482	78
## 5379	3.5257	0	3.5257	79
## 5380	-3.3764	0	3.3764	80
## 5381	3.0872	0	3.0872	81
## 5382	-2.8722	0	2.8722	82
## 5383	2.6289	0	2.6289	83
## 5384	-2.5697	0	2.5697	84
## 5385	-2.3452	0	2.3452	85
## 5386	2.3155	0	2.3155	86
## 5387	2.1322	0	2.1322	87
## 5388	-2.1282	0	2.1282	88
## 5389	1.7849	0	1.7849	89
## 5390	-1.7280	0	1.7280	90
## 5391	1.6682	0	1.6682	91
## 5392	-1.5485	0	1.5485	92
## 5393	-1.2853	0	1.2853	93
## 5394	-0.9675	0	0.9675	94
## 5395	0.9303	0	0.9303	95
## 5396	-0.6961	0	0.6961	96
## 5397	0.6566	0	0.6566	97
## 5398	0.3701	0	0.3701	98
## 5399	0.1704	0	0.1704	99
## 5400	-0.1485	0	0.1485	100
## 5401	18.7930	0	18.7930	1
## 5402	-18.5456	0	18.5456	2
## 5403	17.9758	0	17.9758	3
## 5404	-17.5150	0	17.5150	4
## 5405	17.3827	0	17.3827	5
## 5406	-16.9265	0	16.9265	6
## 5407	16.6452	0	16.6452	7
## 5408	-16.5271	0	16.5271	8
## 5409	16.3602	0	16.3602	9
## 5410	-16.2360	0	16.2360	10
## 5411	15.8571	0	15.8571	11
## 5412	-15.6798	0	15.6798	12
## 5413	15.2355	0	15.2355	13
## 5414	-14.7223	0	14.7223	14
## 5415	14.5317	0	14.5317	15
## 5416	-14.3793	0	14.3793	16
## 5417	-14.2345	0	14.2345	17
## 5418	14.0352	0	14.0352	18
## 5419	13.8295	0	13.8295	19
## 5420	-13.6450	0	13.6450	20

## 5421	-13.3980	0	13.3980	21
## 5422	13.1645	0	13.1645	22
## 5423	-12.8664	0	12.8664	23
## 5424	12.7428	0	12.7428	24
## 5425	-12.5748	0	12.5748	25
## 5426	12.5478	0	12.5478	26
## 5427	12.3436	0	12.3436	27
## 5428	-12.2180	0	12.2180	28
## 5429	-12.0542	0	12.0542	29
## 5430	11.7461	0	11.7461	30
## 5431	11.4179	0	11.4179	31
## 5432	-11.3320	0	11.3320	32
## 5433	-11.0620	0	11.0620	33
## 5434	10.8253	0	10.8253	34
## 5435	-10.7724	0	10.7724	35
## 5436	10.7228	0	10.7228	36
## 5437	-10.3753	0	10.3753	37
## 5438	-10.1462	0	10.1462	38
## 5439	9.9983	0	9.9983	39
## 5440	9.8230	0	9.8230	40
## 5441	-9.5952	0	9.5952	41
## 5442	9.5751	0	9.5751	42
## 5443	-9.1133	0	9.1133	43
## 5444	8.9917	0	8.9917	44
## 5445	-8.9423	0	8.9423	45
## 5446	8.8252	0	8.8252	46
## 5447	-8.6320	0	8.6320	47
## 5448	8.5340	0	8.5340	48
## 5449	-8.2636	0	8.2636	49
## 5450	8.2589	0	8.2589	50
## 5451	-8.0115	0	8.0115	51
## 5452	7.7723	0	7.7723	52
## 5453	-7.6474	0	7.6474	53
## 5454	7.6208	0	7.6208	54
## 5455	7.3324	0	7.3324	55
## 5456	-7.2006	0	7.2006	56
## 5457	7.0126	0	7.0126	57
## 5458	-6.8376	0	6.8376	58
## 5459	6.7255	0	6.7255	59
## 5460	-6.3958	0	6.3958	60
## 5461	-6.2549	0	6.2549	61
## 5462	-6.1598	0	6.1598	62
## 5463	6.1393	0	6.1393	63
## 5464	5.9114	0	5.9114	64
## 5465	-5.5431	0	5.5431	65
## 5466	5.4359	0	5.4359	66
## 5467	-5.2898	0	5.2898	67
## 5468	5.2216	0	5.2216	68
## 5469	4.9614	0	4.9614	69
## 5470	4.6551	0	4.6551	70
## 5471	-4.6114	0	4.6114	71
## 5472	-4.4219	0	4.4219	72
## 5473	4.3812	0	4.3812	73
## 5474	-4.1653	0	4.1653	74

## 5475	4.1292	0	4.1292	75
## 5476	-3.9066	0	3.9066	76
## 5477	3.8288	0	3.8288	77
## 5478	3.4993	0	3.4993	78
## 5479	-3.4884	0	3.4884	79
## 5480	-3.3127	0	3.3127	80
## 5481	-3.0918	0	3.0918	81
## 5482	3.0631	0	3.0631	82
## 5483	-2.9190	0	2.9190	83
## 5484	2.8199	0	2.8199	84
## 5485	2.5060	0	2.5060	85
## 5486	-2.4946	0	2.4946	86
## 5487	-2.1693	0	2.1693	87
## 5488	2.1633	0	2.1633	88
## 5489	-1.7001	0	1.7001	89
## 5490	1.6644	0	1.6644	90
## 5491	-1.4880	0	1.4880	91
## 5492	1.4698	0	1.4698	92
## 5493	-1.1779	0	1.1779	93
## 5494	0.8640	0	0.8640	94
## 5495	-0.6717	0	0.6717	95
## 5496	0.6500	0	0.6500	96
## 5497	0.5402	0	0.5402	97
## 5498	-0.1789	0	0.1789	98
## 5499	0.1395	0	0.1395	99
## 5500	-0.0088	0	0.0088	100
## 5501	19.4431	0	19.4431	1
## 5502	-18.6812	0	18.6812	2
## 5503	18.1765	0	18.1765	3
## 5504	-18.1584	0	18.1584	4
## 5505	-17.4379	0	17.4379	5
## 5506	17.4063	0	17.4063	6
## 5507	17.3221	0	17.3221	7
## 5508	-17.2475	0	17.2475	8
## 5509	-16.6296	0	16.6296	9
## 5510	16.4069	0	16.4069	10
## 5511	-16.2448	0	16.2448	11
## 5512	16.1338	0	16.1338	12
## 5513	-15.4598	0	15.4598	13
## 5514	15.3773	0	15.3773	14
## 5515	15.0867	0	15.0867	15
## 5516	-14.9593	0	14.9593	16
## 5517	14.6547	0	14.6547	17
## 5518	-14.4447	0	14.4447	18
## 5519	-14.1549	0	14.1549	19
## 5520	14.0625	0	14.0625	20
## 5521	13.7582	0	13.7582	21
## 5522	-13.4352	0	13.4352	22
## 5523	13.2982	0	13.2982	23
## 5524	-13.1497	0	13.1497	24
## 5525	-12.8821	0	12.8821	25
## 5526	12.5409	0	12.5409	26
## 5527	-12.4156	0	12.4156	27
## 5528	12.2416	0	12.2416	28

##	5529	-11.9968	0	11.9968	29
##	5530	11.7699	0	11.7699	30
##	5531	11.4882	0	11.4882	31
##	5532	-11.2494	0	11.2494	32
##	5533	10.9874	0	10.9874	33
##	5534	-10.8204	0	10.8204	34
##	5535	10.7843	0	10.7843	35
##	5536	-10.6497	0	10.6497	36
##	5537	-10.3855	0	10.3855	37
##	5538	-10.0759	0	10.0759	38
##	5539	10.0655	0	10.0655	39
##	5540	9.8031	0	9.8031	40
##	5541	9.4989	0	9.4989	41
##	5542	-9.4861	0	9.4861	42
##	5543	9.1015	0	9.1015	43
##	5544	-9.0347	0	9.0347	44
##	5545	8.9046	0	8.9046	45
##	5546	-8.7444	0	8.7444	46
##	5547	-8.6132	0	8.6132	47
##	5548	8.5743	0	8.5743	48
##	5549	-8.3829	0	8.3829	49
##	5550	7.9428	0	7.9428	50
##	5551	-7.9375	0	7.9375	51
##	5552	7.6562	0	7.6562	52
##	5553	-7.6073	0	7.6073	53
##	5554	7.3792	0	7.3792	54
##	5555	-7.2417	0	7.2417	55
##	5556	-6.9836	0	6.9836	56
##	5557	6.6892	0	6.6892	57
##	5558	-6.5775	0	6.5775	58
##	5559	-6.3294	0	6.3294	59
##	5560	6.3075	0	6.3075	60
##	5561	6.1694	0	6.1694	61
##	5562	6.0644	0	6.0644	62
##	5563	-6.0414	0	6.0414	63
##	5564	-5.7360	0	5.7360	64
##	5565	-5.6038	0	5.6038	65
##	5566	5.5930	0	5.5930	66
##	5567	-5.4146	0	5.4146	67
##	5568	5.2655	0	5.2655	68
##	5569	5.1310	0	5.1310	69
##	5570	-5.0832	0	5.0832	70
##	5571	4.7081	0	4.7081	71
##	5572	-4.4525	0	4.4525	72
##	5573	4.4334	0	4.4334	73
##	5574	4.2108	0	4.2108	74
##	5575	-4.2036	0	4.2036	75
##	5576	-3.8323	0	3.8323	76
##	5577	3.8283	0	3.8283	77
##	5578	-3.3656	0	3.3656	78
##	5579	3.3445	0	3.3445	79
##	5580	-3.1198	0	3.1198	80
##	5581	3.0195	0	3.0195	81
##	5582	-2.8154	0	2.8154	82

## 5583	2.5629	0	2.5629	83
## 5584	-2.4691	0	2.4691	84
## 5585	2.2894	0	2.2894	85
## 5586	2.1259	0	2.1259	86
## 5587	-1.9814	0	1.9814	87
## 5588	-1.7713	0	1.7713	88
## 5589	1.6041	0	1.6041	89
## 5590	-1.4557	0	1.4557	90
## 5591	-1.2900	0	1.2900	91
## 5592	1.2565	0	1.2565	92
## 5593	1.1718	0	1.1718	93
## 5594	0.9700	0	0.9700	94
## 5595	-0.9391	0	0.9391	95
## 5596	0.7944	0	0.7944	96
## 5597	-0.6075	0	0.6075	97
## 5598	0.3974	0	0.3974	98
## 5599	0.1388	0	0.1388	99
## 5600	-0.0698	0	0.0698	100
## 5601	-19.7088	0	19.7088	1
## 5602	19.3755	0	19.3755	2
## 5603	-18.6966	0	18.6966	3
## 5604	18.3790	0	18.3790	4
## 5605	-18.1860	0	18.1860	5
## 5606	17.6552	0	17.6552	6
## 5607	-17.4635	0	17.4635	7
## 5608	16.8880	0	16.8880	8
## 5609	-16.7361	0	16.7361	9
## 5610	16.0620	0	16.0620	10
## 5611	-15.9768	0	15.9768	11
## 5612	15.5851	0	15.5851	12
## 5613	-15.2406	0	15.2406	13
## 5614	-15.1012	0	15.1012	14
## 5615	14.7522	0	14.7522	15
## 5616	-14.4854	0	14.4854	16
## 5617	-14.2188	0	14.2188	17
## 5618	14.2081	0	14.2081	18
## 5619	13.9651	0	13.9651	19
## 5620	13.6704	0	13.6704	20
## 5621	-13.5807	0	13.5807	21
## 5622	13.2648	0	13.2648	22
## 5623	-13.0642	0	13.0642	23
## 5624	12.7937	0	12.7937	24
## 5625	-12.7701	0	12.7701	25
## 5626	12.4759	0	12.4759	26
## 5627	-12.4752	0	12.4752	27
## 5628	-12.0064	0	12.0064	28
## 5629	11.9043	0	11.9043	29
## 5630	11.7419	0	11.7419	30
## 5631	-11.6267	0	11.6267	31
## 5632	-11.2915	0	11.2915	32
## 5633	11.2763	0	11.2763	33
## 5634	10.9751	0	10.9751	34
## 5635	-10.8043	0	10.8043	35
## 5636	-10.5398	0	10.5398	36

## 5637	10.5124	0	10.5124	37
## 5638	-10.2685	0	10.2685	38
## 5639	9.9839	0	9.9839	39
## 5640	-9.8886	0	9.8886	40
## 5641	-9.8038	0	9.8038	41
## 5642	9.7261	0	9.7261	42
## 5643	9.3185	0	9.3185	43
## 5644	-9.2644	0	9.2644	44
## 5645	9.0644	0	9.0644	45
## 5646	-8.9009	0	8.9009	46
## 5647	8.8210	0	8.8210	47
## 5648	-8.5490	0	8.5490	48
## 5649	-8.1482	0	8.1482	49
## 5650	8.1161	0	8.1161	50
## 5651	7.9378	0	7.9378	51
## 5652	-7.8834	0	7.8834	52
## 5653	-7.5467	0	7.5467	53
## 5654	-7.3708	0	7.3708	54
## 5655	7.3400	0	7.3400	55
## 5656	7.3243	0	7.3243	56
## 5657	6.8599	0	6.8599	57
## 5658	-6.6626	0	6.6626	58
## 5659	-6.4991	0	6.4991	59
## 5660	6.4450	0	6.4450	60
## 5661	6.0592	0	6.0592	61
## 5662	-6.0505	0	6.0505	62
## 5663	5.9080	0	5.9080	63
## 5664	-5.6669	0	5.6669	64
## 5665	5.6319	0	5.6319	65
## 5666	-5.3292	0	5.3292	66
## 5667	5.3124	0	5.3124	67
## 5668	-5.2036	0	5.2036	68
## 5669	5.0696	0	5.0696	69
## 5670	-4.8354	0	4.8354	70
## 5671	4.8117	0	4.8117	71
## 5672	4.4993	0	4.4993	72
## 5673	4.1927	0	4.1927	73
## 5674	-4.1696	0	4.1696	74
## 5675	-4.0548	0	4.0548	75
## 5676	3.8854	0	3.8854	76
## 5677	-3.7933	0	3.7933	77
## 5678	-3.6264	0	3.6264	78
## 5679	3.2958	0	3.2958	79
## 5680	3.1738	0	3.1738	80
## 5681	-3.1609	0	3.1609	81
## 5682	-3.0340	0	3.0340	82
## 5683	2.8382	0	2.8382	83
## 5684	2.5718	0	2.5718	84
## 5685	-2.5134	0	2.5134	85
## 5686	2.2049	0	2.2049	86
## 5687	-2.1951	0	2.1951	87
## 5688	1.9966	0	1.9966	88
## 5689	-1.8062	0	1.8062	89
## 5690	1.6565	0	1.6565	90

##	5691	-1.4014	0	1.4014	91
##	5692	1.3388	0	1.3388	92
##	5693	1.1294	0	1.1294	93
##	5694	-1.0585	0	1.0585	94
##	5695	-0.7967	0	0.7967	95
##	5696	0.5666	0	0.5666	96
##	5697	-0.4863	0	0.4863	97
##	5698	-0.2462	0	0.2462	98
##	5699	0.2273	0	0.2273	99
##	5700	0.0498	0	0.0498	100
##	5701	19.4419	0	19.4419	1
##	5702	-18.9721	0	18.9721	2
##	5703	18.5403	0	18.5403	3
##	5704	-18.3803	0	18.3803	4
##	5705	-17.6831	0	17.6831	5
##	5706	17.6684	0	17.6684	6
##	5707	17.4754	0	17.4754	7
##	5708	-16.6193	0	16.6193	8
##	5709	-16.3975	0	16.3975	9
##	5710	16.3842	0	16.3842	10
##	5711	16.1288	0	16.1288	11
##	5712	-16.1272	0	16.1272	12
##	5713	-15.8018	0	15.8018	13
##	5714	15.6437	0	15.6437	14
##	5715	14.9892	0	14.9892	15
##	5716	-14.7932	0	14.7932	16
##	5717	14.3964	0	14.3964	17
##	5718	-14.1762	0	14.1762	18
##	5719	-14.0384	0	14.0384	19
##	5720	13.9532	0	13.9532	20
##	5721	13.4557	0	13.4557	21
##	5722	-13.4463	0	13.4463	22
##	5723	-13.2068	0	13.2068	23
##	5724	13.1077	0	13.1077	24
##	5725	12.8317	0	12.8317	25
##	5726	-12.7451	0	12.7451	26
##	5727	-12.3617	0	12.3617	27
##	5728	12.2062	0	12.2062	28
##	5729	-12.1400	0	12.1400	29
##	5730	11.7783	0	11.7783	30
##	5731	-11.7036	0	11.7036	31
##	5732	-11.2912	0	11.2912	32
##	5733	11.1381	0	11.1381	33
##	5734	-11.0031	0	11.0031	34
##	5735	10.7339	0	10.7339	35
##	5736	-10.5314	0	10.5314	36
##	5737	10.5010	0	10.5010	37
##	5738	-10.0374	0	10.0374	38
##	5739	10.0209	0	10.0209	39
##	5740	-9.7672	0	9.7672	40
##	5741	9.7115	0	9.7115	41
##	5742	-9.2894	0	9.2894	42
##	5743	9.2410	0	9.2410	43
##	5744	-9.0360	0	9.0360	44

## 5745	8.9228	0	8.9228	45
## 5746	-8.7377	0	8.7377	46
## 5747	8.6569	0	8.6569	47
## 5748	-8.4102	0	8.4102	48
## 5749	8.2849	0	8.2849	49
## 5750	8.2583	0	8.2583	50
## 5751	-8.1596	0	8.1596	51
## 5752	7.7569	0	7.7569	52
## 5753	-7.5578	0	7.5578	53
## 5754	7.5250	0	7.5250	54
## 5755	-7.2841	0	7.2841	55
## 5756	6.9256	0	6.9256	56
## 5757	-6.8447	0	6.8447	57
## 5758	6.7648	0	6.7648	58
## 5759	-6.4283	0	6.4283	59
## 5760	6.3924	0	6.3924	60
## 5761	-6.3781	0	6.3781	61
## 5762	6.0401	0	6.0401	62
## 5763	-5.9830	0	5.9830	63
## 5764	-5.6580	0	5.6580	64
## 5765	5.6330	0	5.6330	65
## 5766	5.4180	0	5.4180	66
## 5767	5.3117	0	5.3117	67
## 5768	-5.2767	0	5.2767	68
## 5769	-5.0733	0	5.0733	69
## 5770	4.8361	0	4.8361	70
## 5771	-4.6587	0	4.6587	71
## 5772	4.6044	0	4.6044	72
## 5773	4.3086	0	4.3086	73
## 5774	-4.2775	0	4.2775	74
## 5775	-4.0378	0	4.0378	75
## 5776	3.7648	0	3.7648	76
## 5777	3.5617	0	3.5617	77
## 5778	-3.4992	0	3.4992	78
## 5779	-3.1615	0	3.1615	79
## 5780	3.0394	0	3.0394	80
## 5781	2.9209	0	2.9209	81
## 5782	-2.8995	0	2.8995	82
## 5783	-2.6010	0	2.6010	83
## 5784	-2.5267	0	2.5267	84
## 5785	2.3109	0	2.3109	85
## 5786	-2.2168	0	2.2168	86
## 5787	2.1395	0	2.1395	87
## 5788	1.7669	0	1.7669	88
## 5789	-1.7358	0	1.7358	89
## 5790	-1.5983	0	1.5983	90
## 5791	1.5656	0	1.5656	91
## 5792	-1.3691	0	1.3691	92
## 5793	1.2436	0	1.2436	93
## 5794	0.9274	0	0.9274	94
## 5795	-0.9023	0	0.9023	95
## 5796	-0.7083	0	0.7083	96
## 5797	0.6422	0	0.6422	97
## 5798	-0.5651	0	0.5651	98

## 5799	0.4483	0	0.4483	99
## 5800	0.0514	0	0.0514	100
## 5801	19.4850	0	19.4850	1
## 5802	18.6149	0	18.6149	2
## 5803	-18.4499	0	18.4499	3
## 5804	17.4534	0	17.4534	4
## 5805	-17.4255	0	17.4255	5
## 5806	-17.2276	0	17.2276	6
## 5807	-16.7873	0	16.7873	7
## 5808	16.6717	0	16.6717	8
## 5809	-16.5411	0	16.5411	9
## 5810	16.2307	0	16.2307	10
## 5811	-15.9707	0	15.9707	11
## 5812	15.6530	0	15.6530	12
## 5813	15.2865	0	15.2865	13
## 5814	-15.1642	0	15.1642	14
## 5815	14.8954	0	14.8954	15
## 5816	-14.7969	0	14.7969	16
## 5817	14.7086	0	14.7086	17
## 5818	-14.4706	0	14.4706	18
## 5819	-14.1691	0	14.1691	19
## 5820	13.9495	0	13.9495	20
## 5821	-13.8423	0	13.8423	21
## 5822	-13.4505	0	13.4505	22
## 5823	13.2383	0	13.2383	23
## 5824	13.0868	0	13.0868	24
## 5825	12.6691	0	12.6691	25
## 5826	-12.5690	0	12.5690	26
## 5827	12.2890	0	12.2890	27
## 5828	-12.2412	0	12.2412	28
## 5829	11.8823	0	11.8823	29
## 5830	-11.8540	0	11.8540	30
## 5831	11.5085	0	11.5085	31
## 5832	-11.2263	0	11.2263	32
## 5833	11.1360	0	11.1360	33
## 5834	-10.8330	0	10.8330	34
## 5835	10.8301	0	10.8301	35
## 5836	10.3739	0	10.3739	36
## 5837	-10.2851	0	10.2851	37
## 5838	10.2600	0	10.2600	38
## 5839	-10.1681	0	10.1681	39
## 5840	-9.9652	0	9.9652	40
## 5841	9.5868	0	9.5868	41
## 5842	-9.5579	0	9.5579	42
## 5843	9.5342	0	9.5342	43
## 5844	-9.3257	0	9.3257	44
## 5845	8.8729	0	8.8729	45
## 5846	-8.8489	0	8.8489	46
## 5847	-8.6043	0	8.6043	47
## 5848	-8.3826	0	8.3826	48
## 5849	8.3264	0	8.3264	49
## 5850	8.1673	0	8.1673	50
## 5851	-8.0527	0	8.0527	51
## 5852	7.6910	0	7.6910	52

## 5853	-7.6701	0	7.6701	53
## 5854	-7.6253	0	7.6253	54
## 5855	7.2602	0	7.2602	55
## 5856	7.0114	0	7.0114	56
## 5857	-6.8079	0	6.8079	57
## 5858	6.7991	0	6.7991	58
## 5859	-6.6292	0	6.6292	59
## 5860	6.3999	0	6.3999	60
## 5861	-6.3002	0	6.3002	61
## 5862	6.2347	0	6.2347	62
## 5863	5.9212	0	5.9212	63
## 5864	-5.8994	0	5.8994	64
## 5865	-5.6788	0	5.6788	65
## 5866	5.4148	0	5.4148	66
## 5867	-5.4074	0	5.4074	67
## 5868	-5.1543	0	5.1543	68
## 5869	5.1528	0	5.1528	69
## 5870	4.8678	0	4.8678	70
## 5871	-4.6839	0	4.6839	71
## 5872	-4.5702	0	4.5702	72
## 5873	4.4851	0	4.4851	73
## 5874	4.2482	0	4.2482	74
## 5875	-4.1482	0	4.1482	75
## 5876	4.0882	0	4.0882	76
## 5877	3.8721	0	3.8721	77
## 5878	-3.7316	0	3.7316	78
## 5879	3.5556	0	3.5556	79
## 5880	-3.3084	0	3.3084	80
## 5881	3.1740	0	3.1740	81
## 5882	-3.0694	0	3.0694	82
## 5883	-2.8301	0	2.8301	83
## 5884	2.7770	0	2.7770	84
## 5885	2.6444	0	2.6444	85
## 5886	-2.3802	0	2.3802	86
## 5887	2.2865	0	2.2865	87
## 5888	-1.8346	0	1.8346	88
## 5889	1.7200	0	1.7200	89
## 5890	-1.6517	0	1.6517	90
## 5891	-1.4436	0	1.4436	91
## 5892	1.4328	0	1.4328	92
## 5893	1.1321	0	1.1321	93
## 5894	-1.0407	0	1.0407	94
## 5895	0.9659	0	0.9659	95
## 5896	-0.7311	0	0.7311	96
## 5897	0.6963	0	0.6963	97
## 5898	0.5146	0	0.5146	98
## 5899	-0.1778	0	0.1778	99
## 5900	0.0961	0	0.0961	100
## 5901	-19.4034	0	19.4034	1
## 5902	19.0248	0	19.0248	2
## 5903	-18.4188	0	18.4188	3
## 5904	18.2246	0	18.2246	4
## 5905	-18.0577	0	18.0577	5
## 5906	17.8094	0	17.8094	6

##	5907	-17.3815	0	17.3815	7
##	5908	17.2876	0	17.2876	8
##	5909	-16.5204	0	16.5204	9
##	5910	-16.3353	0	16.3353	10
##	5911	16.3211	0	16.3211	11
##	5912	15.9953	0	15.9953	12
##	5913	15.7981	0	15.7981	13
##	5914	15.3976	0	15.3976	14
##	5915	-15.2165	0	15.2165	15
##	5916	-14.9743	0	14.9743	16
##	5917	-14.6927	0	14.6927	17
##	5918	14.5435	0	14.5435	18
##	5919	-14.1593	0	14.1593	19
##	5920	14.0188	0	14.0188	20
##	5921	13.6612	0	13.6612	21
##	5922	-13.4887	0	13.4887	22
##	5923	13.2745	0	13.2745	23
##	5924	-13.2240	0	13.2240	24
##	5925	13.0069	0	13.0069	25
##	5926	-12.8635	0	12.8635	26
##	5927	12.6255	0	12.6255	27
##	5928	-12.5393	0	12.5393	28
##	5929	-12.3584	0	12.3584	29
##	5930	12.0721	0	12.0721	30
##	5931	-11.6043	0	11.6043	31
##	5932	11.5893	0	11.5893	32
##	5933	-11.3923	0	11.3923	33
##	5934	11.3338	0	11.3338	34
##	5935	-10.8598	0	10.8598	35
##	5936	10.7487	0	10.7487	36
##	5937	-10.5599	0	10.5599	37
##	5938	10.1738	0	10.1738	38
##	5939	-10.1205	0	10.1205	39
##	5940	9.8744	0	9.8744	40
##	5941	-9.6874	0	9.6874	41
##	5942	-9.4658	0	9.4658	42
##	5943	9.3921	0	9.3921	43
##	5944	9.3030	0	9.3030	44
##	5945	8.9421	0	8.9421	45
##	5946	-8.7017	0	8.7017	46
##	5947	8.5587	0	8.5587	47
##	5948	-8.4326	0	8.4326	48
##	5949	-8.3220	0	8.3220	49
##	5950	8.3108	0	8.3108	50
##	5951	-8.0340	0	8.0340	51
##	5952	7.8964	0	7.8964	52
##	5953	-7.6755	0	7.6755	53
##	5954	7.5776	0	7.5776	54
##	5955	-7.4281	0	7.4281	55
##	5956	6.9239	0	6.9239	56
##	5957	-6.8846	0	6.8846	57
##	5958	6.7875	0	6.7875	58
##	5959	-6.5829	0	6.5829	59
##	5960	6.2795	0	6.2795	60

## 5961	-6.2206	0	6.2206	61
## 5962	-6.0317	0	6.0317	62
## 5963	5.9434	0	5.9434	63
## 5964	-5.8292	0	5.8292	64
## 5965	5.5972	0	5.5972	65
## 5966	-5.3240	0	5.3240	66
## 5967	5.1922	0	5.1922	67
## 5968	-5.1339	0	5.1339	68
## 5969	4.7507	0	4.7507	69
## 5970	-4.7036	0	4.7036	70
## 5971	4.5948	0	4.5948	71
## 5972	-4.4168	0	4.4168	72
## 5973	-4.3123	0	4.3123	73
## 5974	4.2252	0	4.2252	74
## 5975	4.1031	0	4.1031	75
## 5976	-3.8548	0	3.8548	76
## 5977	3.6928	0	3.6928	77
## 5978	-3.4562	0	3.4562	78
## 5979	3.4098	0	3.4098	79
## 5980	-3.1477	0	3.1477	80
## 5981	3.1147	0	3.1147	81
## 5982	2.7698	0	2.7698	82
## 5983	-2.5559	0	2.5559	83
## 5984	2.5271	0	2.5271	84
## 5985	-2.5250	0	2.5250	85
## 5986	2.2546	0	2.2546	86
## 5987	-2.2021	0	2.2021	87
## 5988	-1.9141	0	1.9141	88
## 5989	1.8730	0	1.8730	89
## 5990	-1.5831	0	1.5831	90
## 5991	1.5779	0	1.5779	91
## 5992	1.3183	0	1.3183	92
## 5993	1.1766	0	1.1766	93
## 5994	-1.1273	0	1.1273	94
## 5995	-0.9173	0	0.9173	95
## 5996	-0.7684	0	0.7684	96
## 5997	0.6833	0	0.6833	97
## 5998	-0.3333	0	0.3333	98
## 5999	0.2408	0	0.2408	99
## 6000	-0.1990	0	0.1990	100
## 6001	-19.2162	0	19.2162	1
## 6002	18.8345	0	18.8345	2
## 6003	-18.2647	0	18.2647	3
## 6004	18.2430	0	18.2430	4
## 6005	-17.8580	0	17.8580	5
## 6006	17.7354	0	17.7354	6
## 6007	17.1392	0	17.1392	7
## 6008	-17.0267	0	17.0267	8
## 6009	16.8044	0	16.8044	9
## 6010	-16.6982	0	16.6982	10
## 6011	16.1493	0	16.1493	11
## 6012	15.9118	0	15.9118	12
## 6013	-15.8287	0	15.8287	13
## 6014	-15.4045	0	15.4045	14

## 6015	-15.1936	0	15.1936	15
## 6016	15.1777	0	15.1777	16
## 6017	14.9855	0	14.9855	17
## 6018	-14.6994	0	14.6994	18
## 6019	14.5723	0	14.5723	19
## 6020	14.0082	0	14.0082	20
## 6021	-13.9241	0	13.9241	21
## 6022	13.7210	0	13.7210	22
## 6023	-13.4490	0	13.4490	23
## 6024	13.2653	0	13.2653	24
## 6025	12.9488	0	12.9488	25
## 6026	-12.8098	0	12.8098	26
## 6027	12.4618	0	12.4618	27
## 6028	-12.3931	0	12.3931	28
## 6029	12.1776	0	12.1776	29
## 6030	-12.0553	0	12.0553	30
## 6031	-11.7532	0	11.7532	31
## 6032	-11.3427	0	11.3427	32
## 6033	11.2936	0	11.2936	33
## 6034	11.0090	0	11.0090	34
## 6035	-10.8192	0	10.8192	35
## 6036	-10.6713	0	10.6713	36
## 6037	10.5376	0	10.5376	37
## 6038	-10.2546	0	10.2546	38
## 6039	10.2394	0	10.2394	39
## 6040	-9.8076	0	9.8076	40
## 6041	-9.5201	0	9.5201	41
## 6042	9.4774	0	9.4774	42
## 6043	-9.3725	0	9.3725	43
## 6044	9.3723	0	9.3723	44
## 6045	-8.9241	0	8.9241	45
## 6046	8.8922	0	8.8922	46
## 6047	-8.7004	0	8.7004	47
## 6048	8.6362	0	8.6362	48
## 6049	8.3145	0	8.3145	49
## 6050	-8.2243	0	8.2243	50
## 6051	7.9521	0	7.9521	51
## 6052	-7.9274	0	7.9274	52
## 6053	7.6015	0	7.6015	53
## 6054	-7.4861	0	7.4861	54
## 6055	7.2850	0	7.2850	55
## 6056	-7.2553	0	7.2553	56
## 6057	7.0282	0	7.0282	57
## 6058	-6.8330	0	6.8330	58
## 6059	-6.7467	0	6.7467	59
## 6060	6.5188	0	6.5188	60
## 6061	-6.3415	0	6.3415	61
## 6062	6.2742	0	6.2742	62
## 6063	-5.9960	0	5.9960	63
## 6064	5.8657	0	5.8657	64
## 6065	5.7413	0	5.7413	65
## 6066	-5.6117	0	5.6117	66
## 6067	-5.3600	0	5.3600	67
## 6068	-5.1702	0	5.1702	68

## 6069	5.0653	0	5.0653	69
## 6070	-4.6609	0	4.6609	70
## 6071	4.6518	0	4.6518	71
## 6072	-4.3353	0	4.3353	72
## 6073	4.2183	0	4.2183	73
## 6074	-4.0522	0	4.0522	74
## 6075	-3.8448	0	3.8448	75
## 6076	3.8419	0	3.8419	76
## 6077	3.7684	0	3.7684	77
## 6078	-3.5745	0	3.5745	78
## 6079	3.4296	0	3.4296	79
## 6080	-3.2854	0	3.2854	80
## 6081	3.0991	0	3.0991	81
## 6082	-2.9004	0	2.9004	82
## 6083	-2.7937	0	2.7937	83
## 6084	2.7812	0	2.7812	84
## 6085	2.5299	0	2.5299	85
## 6086	-2.3857	0	2.3857	86
## 6087	2.1385	0	2.1385	87
## 6088	-2.0710	0	2.0710	88
## 6089	2.0300	0	2.0300	89
## 6090	-1.8032	0	1.8032	90
## 6091	1.6251	0	1.6251	91
## 6092	1.2044	0	1.2044	92
## 6093	-1.1691	0	1.1691	93
## 6094	-1.0258	0	1.0258	94
## 6095	-0.9430	0	0.9430	95
## 6096	0.8035	0	0.8035	96
## 6097	-0.5496	0	0.5496	97
## 6098	0.3933	0	0.3933	98
## 6099	-0.2550	0	0.2550	99
## 6100	0.0637	0	0.0637	100
## 6101	-19.1712	0	19.1712	1
## 6102	18.9008	0	18.9008	2
## 6103	-18.5636	0	18.5636	3
## 6104	18.3376	0	18.3376	4
## 6105	-17.7206	0	17.7206	5
## 6106	17.5309	0	17.5309	6
## 6107	-17.2729	0	17.2729	7
## 6108	-17.0337	0	17.0337	8
## 6109	16.9182	0	16.9182	9
## 6110	16.3967	0	16.3967	10
## 6111	16.0709	0	16.0709	11
## 6112	-15.7631	0	15.7631	12
## 6113	15.5051	0	15.5051	13
## 6114	-15.4652	0	15.4652	14
## 6115	15.0194	0	15.0194	15
## 6116	-14.7026	0	14.7026	16
## 6117	14.5085	0	14.5085	17
## 6118	-14.4645	0	14.4645	18
## 6119	-14.2024	0	14.2024	19
## 6120	14.0959	0	14.0959	20
## 6121	-13.7149	0	13.7149	21
## 6122	13.5647	0	13.5647	22

## 6123	-13.1747	0	13.1747	23
## 6124	13.1110	0	13.1110	24
## 6125	-12.8611	0	12.8611	25
## 6126	12.3537	0	12.3537	26
## 6127	-12.3471	0	12.3471	27
## 6128	11.9133	0	11.9133	28
## 6129	-11.6414	0	11.6414	29
## 6130	11.5246	0	11.5246	30
## 6131	11.2691	0	11.2691	31
## 6132	-11.2504	0	11.2504	32
## 6133	-10.8908	0	10.8908	33
## 6134	10.8705	0	10.8705	34
## 6135	-10.6894	0	10.6894	35
## 6136	10.6205	0	10.6205	36
## 6137	10.4615	0	10.4615	37
## 6138	-10.3884	0	10.3884	38
## 6139	10.0590	0	10.0590	39
## 6140	-9.9918	0	9.9918	40
## 6141	-9.7377	0	9.7377	41
## 6142	9.4391	0	9.4391	42
## 6143	-9.1539	0	9.1539	43
## 6144	9.1198	0	9.1198	44
## 6145	-8.7222	0	8.7222	45
## 6146	8.6962	0	8.6962	46
## 6147	-8.5078	0	8.5078	47
## 6148	8.3531	0	8.3531	48
## 6149	-8.2393	0	8.2393	49
## 6150	-7.9804	0	7.9804	50
## 6151	7.8528	0	7.8528	51
## 6152	-7.6739	0	7.6739	52
## 6153	7.5904	0	7.5904	53
## 6154	-7.3503	0	7.3503	54
## 6155	7.3381	0	7.3381	55
## 6156	-7.1252	0	7.1252	56
## 6157	7.1040	0	7.1040	57
## 6158	6.6015	0	6.6015	58
## 6159	-6.4243	0	6.4243	59
## 6160	-6.3593	0	6.3593	60
## 6161	6.3192	0	6.3192	61
## 6162	6.0791	0	6.0791	62
## 6163	5.9759	0	5.9759	63
## 6164	-5.8787	0	5.8787	64
## 6165	5.7187	0	5.7187	65
## 6166	-5.5485	0	5.5485	66
## 6167	-5.3350	0	5.3350	67
## 6168	5.1204	0	5.1204	68
## 6169	-5.0491	0	5.0491	69
## 6170	5.0032	0	5.0032	70
## 6171	-4.7981	0	4.7981	71
## 6172	4.6775	0	4.6775	72
## 6173	-4.4471	0	4.4471	73
## 6174	4.1548	0	4.1548	74
## 6175	-4.0779	0	4.0779	75
## 6176	4.0224	0	4.0224	76

## 6177	3.6124	0	3.6124	77
## 6178	-3.5660	0	3.5660	78
## 6179	3.3984	0	3.3984	79
## 6180	-3.3312	0	3.3312	80
## 6181	-3.0930	0	3.0930	81
## 6182	3.0368	0	3.0368	82
## 6183	-2.8335	0	2.8335	83
## 6184	2.7253	0	2.7253	84
## 6185	-2.4104	0	2.4104	85
## 6186	2.3596	0	2.3596	86
## 6187	2.0999	0	2.0999	87
## 6188	-2.0222	0	2.0222	88
## 6189	1.8397	0	1.8397	89
## 6190	-1.7804	0	1.7804	90
## 6191	1.5852	0	1.5852	91
## 6192	-1.3227	0	1.3227	92
## 6193	1.1721	0	1.1721	93
## 6194	-1.0662	0	1.0662	94
## 6195	-0.8627	0	0.8627	95
## 6196	0.7822	0	0.7822	96
## 6197	-0.5243	0	0.5243	97
## 6198	0.4179	0	0.4179	98
## 6199	0.2243	0	0.2243	99
## 6200	-0.1795	0	0.1795	100
## 6201	-19.1303	0	19.1303	1
## 6202	19.1081	0	19.1081	2
## 6203	18.5180	0	18.5180	3
## 6204	-18.0532	0	18.0532	4
## 6205	17.6173	0	17.6173	5
## 6206	17.1503	0	17.1503	6
## 6207	-17.0623	0	17.0623	7
## 6208	16.7323	0	16.7323	8
## 6209	-16.6112	0	16.6112	9
## 6210	16.2685	0	16.2685	10
## 6211	-16.0891	0	16.0891	11
## 6212	-15.8643	0	15.8643	12
## 6213	-15.4755	0	15.4755	13
## 6214	15.4281	0	15.4281	14
## 6215	15.1736	0	15.1736	15
## 6216	-15.0934	0	15.0934	16
## 6217	-14.6466	0	14.6466	17
## 6218	14.3284	0	14.3284	18
## 6219	-14.0808	0	14.0808	19
## 6220	14.0424	0	14.0424	20
## 6221	-13.9014	0	13.9014	21
## 6222	13.6565	0	13.6565	22
## 6223	-13.3886	0	13.3886	23
## 6224	13.0970	0	13.0970	24
## 6225	-12.9572	0	12.9572	25
## 6226	12.8604	0	12.8604	26
## 6227	-12.4184	0	12.4184	27
## 6228	12.3544	0	12.3544	28
## 6229	12.0512	0	12.0512	29
## 6230	-11.8633	0	11.8633	30

## 6231	-11.6311	0	11.6311	31
## 6232	11.4162	0	11.4162	32
## 6233	-11.2172	0	11.2172	33
## 6234	-10.9879	0	10.9879	34
## 6235	10.9610	0	10.9610	35
## 6236	10.5774	0	10.5774	36
## 6237	10.4070	0	10.4070	37
## 6238	-10.3810	0	10.3810	38
## 6239	-10.2654	0	10.2654	39
## 6240	10.2223	0	10.2223	40
## 6241	9.7500	0	9.7500	41
## 6242	-9.7420	0	9.7420	42
## 6243	-9.4385	0	9.4385	43
## 6244	-9.1731	0	9.1731	44
## 6245	9.1195	0	9.1195	45
## 6246	8.9057	0	8.9057	46
## 6247	-8.5465	0	8.5465	47
## 6248	-8.4368	0	8.4368	48
## 6249	8.3734	0	8.3734	49
## 6250	-7.9951	0	7.9951	50
## 6251	7.8031	0	7.8031	51
## 6252	7.6339	0	7.6339	52
## 6253	7.5172	0	7.5172	53
## 6254	-7.4549	0	7.4549	54
## 6255	-7.2178	0	7.2178	55
## 6256	7.2166	0	7.2166	56
## 6257	-7.0208	0	7.0208	57
## 6258	6.9991	0	6.9991	58
## 6259	6.7455	0	6.7455	59
## 6260	6.4644	0	6.4644	60
## 6261	-6.4413	0	6.4413	61
## 6262	-6.3598	0	6.3598	62
## 6263	6.0425	0	6.0425	63
## 6264	5.8404	0	5.8404	64
## 6265	-5.5990	0	5.5990	65
## 6266	-5.4090	0	5.4090	66
## 6267	5.4013	0	5.4013	67
## 6268	5.3026	0	5.3026	68
## 6269	-5.1538	0	5.1538	69
## 6270	4.9239	0	4.9239	70
## 6271	-4.8910	0	4.8910	71
## 6272	4.5463	0	4.5463	72
## 6273	-4.4656	0	4.4656	73
## 6274	4.1647	0	4.1647	74
## 6275	-4.0729	0	4.0729	75
## 6276	-3.8458	0	3.8458	76
## 6277	3.8457	0	3.8457	77
## 6278	-3.4876	0	3.4876	78
## 6279	3.4084	0	3.4084	79
## 6280	3.2004	0	3.2004	80
## 6281	-3.1982	0	3.1982	81
## 6282	2.8691	0	2.8691	82
## 6283	-2.8066	0	2.8066	83
## 6284	2.6421	0	2.6421	84

##	6285	-2.5924	0	2.5924	85
##	6286	2.2438	0	2.2438	86
##	6287	-2.1760	0	2.1760	87
##	6288	-2.1367	0	2.1367	88
##	6289	1.9688	0	1.9688	89
##	6290	-1.6804	0	1.6804	90
##	6291	1.4298	0	1.4298	91
##	6292	1.1714	0	1.1714	92
##	6293	-1.1177	0	1.1177	93
##	6294	-0.9503	0	0.9503	94
##	6295	0.9044	0	0.9044	95
##	6296	-0.6865	0	0.6865	96
##	6297	0.5580	0	0.5580	97
##	6298	0.4474	0	0.4474	98
##	6299	-0.4306	0	0.4306	99
##	6300	-0.1821	0	0.1821	100
##	6301	-19.3581	0	19.3581	1
##	6302	18.7707	0	18.7707	2
##	6303	18.2021	0	18.2021	3
##	6304	-18.0977	0	18.0977	4
##	6305	17.6518	0	17.6518	5
##	6306	-17.5258	0	17.5258	6
##	6307	-17.1829	0	17.1829	7
##	6308	-16.6513	0	16.6513	8
##	6309	16.5630	0	16.5630	9
##	6310	16.2649	0	16.2649	10
##	6311	-16.0047	0	16.0047	11
##	6312	-15.5694	0	15.5694	12
##	6313	15.5461	0	15.5461	13
##	6314	15.0302	0	15.0302	14
##	6315	-14.9988	0	14.9988	15
##	6316	14.8015	0	14.8015	16
##	6317	-14.6678	0	14.6678	17
##	6318	-14.2710	0	14.2710	18
##	6319	14.0824	0	14.0824	19
##	6320	13.6048	0	13.6048	20
##	6321	-13.4974	0	13.4974	21
##	6322	13.3313	0	13.3313	22
##	6323	-13.3174	0	13.3174	23
##	6324	12.9816	0	12.9816	24
##	6325	-12.7216	0	12.7216	25
##	6326	12.6017	0	12.6017	26
##	6327	12.1325	0	12.1325	27
##	6328	-11.9905	0	11.9905	28
##	6329	11.8582	0	11.8582	29
##	6330	-11.7884	0	11.7884	30
##	6331	-11.6194	0	11.6194	31
##	6332	11.3644	0	11.3644	32
##	6333	-11.1891	0	11.1891	33
##	6334	11.1307	0	11.1307	34
##	6335	10.8931	0	10.8931	35
##	6336	-10.8507	0	10.8507	36
##	6337	10.2673	0	10.2673	37
##	6338	-10.2125	0	10.2125	38

## 6339	-9.8565	0	9.8565	39
## 6340	9.7544	0	9.7544	40
## 6341	-9.6557	0	9.6557	41
## 6342	-9.5173	0	9.5173	42
## 6343	9.5128	0	9.5128	43
## 6344	9.4028	0	9.4028	44
## 6345	9.1602	0	9.1602	45
## 6346	-9.0469	0	9.0469	46
## 6347	-8.8180	0	8.8180	47
## 6348	8.5333	0	8.5333	48
## 6349	-8.4684	0	8.4684	49
## 6350	-8.3912	0	8.3912	50
## 6351	8.1628	0	8.1628	51
## 6352	-7.8936	0	7.8936	52
## 6353	7.5947	0	7.5947	53
## 6354	-7.5069	0	7.5069	54
## 6355	7.4168	0	7.4168	55
## 6356	7.1205	0	7.1205	56
## 6357	-7.0399	0	7.0399	57
## 6358	7.0295	0	7.0295	58
## 6359	-6.8425	0	6.8425	59
## 6360	6.6656	0	6.6656	60
## 6361	-6.4349	0	6.4349	61
## 6362	6.2258	0	6.2258	62
## 6363	-6.2127	0	6.2127	63
## 6364	-5.7836	0	5.7836	64
## 6365	5.7089	0	5.7089	65
## 6366	-5.5573	0	5.5573	66
## 6367	5.4830	0	5.4830	67
## 6368	5.2224	0	5.2224	68
## 6369	-5.1216	0	5.1216	69
## 6370	4.9730	0	4.9730	70
## 6371	-4.7183	0	4.7183	71
## 6372	4.6048	0	4.6048	72
## 6373	-4.5100	0	4.5100	73
## 6374	4.3847	0	4.3847	74
## 6375	-4.1571	0	4.1571	75
## 6376	4.0972	0	4.0972	76
## 6377	3.8407	0	3.8407	77
## 6378	-3.8039	0	3.8039	78
## 6379	3.5694	0	3.5694	79
## 6380	-3.3501	0	3.3501	80
## 6381	-3.1600	0	3.1600	81
## 6382	2.9901	0	2.9901	82
## 6383	-2.7332	0	2.7332	83
## 6384	2.5639	0	2.5639	84
## 6385	-2.4407	0	2.4407	85
## 6386	2.2624	0	2.2624	86
## 6387	-2.1785	0	2.1785	87
## 6388	-2.0530	0	2.0530	88
## 6389	2.0081	0	2.0081	89
## 6390	1.7393	0	1.7393	90
## 6391	-1.5463	0	1.5463	91
## 6392	1.3127	0	1.3127	92

## 6393	1.1472	0	1.1472	93
## 6394	-1.1155	0	1.1155	94
## 6395	0.9641	0	0.9641	95
## 6396	-0.7027	0	0.7027	96
## 6397	0.6540	0	0.6540	97
## 6398	-0.3705	0	0.3705	98
## 6399	0.2053	0	0.2053	99
## 6400	-0.1831	0	0.1831	100
## 6401	-18.7459	0	18.7459	1
## 6402	18.7441	0	18.7441	2
## 6403	18.2723	0	18.2723	3
## 6404	18.1537	0	18.1537	4
## 6405	-17.8754	0	17.8754	5
## 6406	17.3849	0	17.3849	6
## 6407	-17.3078	0	17.3078	7
## 6408	-17.1197	0	17.1197	8
## 6409	16.9007	0	16.9007	9
## 6410	-16.3397	0	16.3397	10
## 6411	15.7992	0	15.7992	11
## 6412	-15.7680	0	15.7680	12
## 6413	-15.4601	0	15.4601	13
## 6414	15.4297	0	15.4297	14
## 6415	15.1298	0	15.1298	15
## 6416	14.5590	0	14.5590	16
## 6417	-14.4264	0	14.4264	17
## 6418	-14.2077	0	14.2077	18
## 6419	13.7703	0	13.7703	19
## 6420	-13.7633	0	13.7633	20
## 6421	13.4952	0	13.4952	21
## 6422	-13.4298	0	13.4298	22
## 6423	-13.2064	0	13.2064	23
## 6424	13.0623	0	13.0623	24
## 6425	-12.8109	0	12.8109	25
## 6426	12.7283	0	12.7283	26
## 6427	-12.5060	0	12.5060	27
## 6428	-11.9892	0	11.9892	28
## 6429	11.8739	0	11.8739	29
## 6430	11.6591	0	11.6591	30
## 6431	11.4666	0	11.4666	31
## 6432	-11.4121	0	11.4121	32
## 6433	-11.2472	0	11.2472	33
## 6434	-11.0732	0	11.0732	34
## 6435	11.0541	0	11.0541	35
## 6436	10.9201	0	10.9201	36
## 6437	10.5454	0	10.5454	37
## 6438	-10.2820	0	10.2820	38
## 6439	9.9709	0	9.9709	39
## 6440	-9.8205	0	9.8205	40
## 6441	-9.6365	0	9.6365	41
## 6442	9.6162	0	9.6162	42
## 6443	9.2680	0	9.2680	43
## 6444	-9.1258	0	9.1258	44
## 6445	-8.8895	0	8.8895	45
## 6446	8.7845	0	8.7845	46

## 6447	-8.5694	0	8.5694	47
## 6448	8.5033	0	8.5033	48
## 6449	-8.2556	0	8.2556	49
## 6450	8.1039	0	8.1039	50
## 6451	-8.0627	0	8.0627	51
## 6452	7.8966	0	7.8966	52
## 6453	-7.7750	0	7.7750	53
## 6454	7.6035	0	7.6035	54
## 6455	7.4497	0	7.4497	55
## 6456	-7.3504	0	7.3504	56
## 6457	-6.9472	0	6.9472	57
## 6458	6.8533	0	6.8533	58
## 6459	-6.6924	0	6.6924	59
## 6460	6.6173	0	6.6173	60
## 6461	-6.3656	0	6.3656	61
## 6462	6.1089	0	6.1089	62
## 6463	6.0046	0	6.0046	63
## 6464	-5.9498	0	5.9498	64
## 6465	5.4345	0	5.4345	65
## 6466	-5.3913	0	5.3913	66
## 6467	5.2304	0	5.2304	67
## 6468	-5.1965	0	5.1965	68
## 6469	-5.0487	0	5.0487	69
## 6470	4.8172	0	4.8172	70
## 6471	4.6597	0	4.6597	71
## 6472	-4.6054	0	4.6054	72
## 6473	4.3542	0	4.3542	73
## 6474	-4.3290	0	4.3290	74
## 6475	4.0192	0	4.0192	75
## 6476	-3.8036	0	3.8036	76
## 6477	3.7016	0	3.7016	77
## 6478	-3.6909	0	3.6909	78
## 6479	-3.3455	0	3.3455	79
## 6480	3.3177	0	3.3177	80
## 6481	3.1303	0	3.1303	81
## 6482	-3.0930	0	3.0930	82
## 6483	2.8876	0	2.8876	83
## 6484	-2.6886	0	2.6886	84
## 6485	2.3703	0	2.3703	85
## 6486	-2.2308	0	2.2308	86
## 6487	2.1660	0	2.1660	87
## 6488	-1.8386	0	1.8386	88
## 6489	1.6822	0	1.6822	89
## 6490	-1.6555	0	1.6555	90
## 6491	1.4603	0	1.4603	91
## 6492	-1.3732	0	1.3732	92
## 6493	1.0733	0	1.0733	93
## 6494	-1.0435	0	1.0435	94
## 6495	0.8244	0	0.8244	95
## 6496	-0.7151	0	0.7151	96
## 6497	-0.5839	0	0.5839	97
## 6498	-0.5023	0	0.5023	98
## 6499	0.3242	0	0.3242	99
## 6500	0.0876	0	0.0876	100

## 6501	19.2572	0	19.2572	1
## 6502	-19.1025	0	19.1025	2
## 6503	-18.4490	0	18.4490	3
## 6504	18.3279	0	18.3279	4
## 6505	-17.8653	0	17.8653	5
## 6506	-17.2905	0	17.2905	6
## 6507	17.1190	0	17.1190	7
## 6508	-16.7845	0	16.7845	8
## 6509	16.6481	0	16.6481	9
## 6510	-16.1485	0	16.1485	10
## 6511	15.9683	0	15.9683	11
## 6512	-15.5391	0	15.5391	12
## 6513	-15.2955	0	15.2955	13
## 6514	15.0127	0	15.0127	14
## 6515	14.9722	0	14.9722	15
## 6516	-14.4215	0	14.4215	16
## 6517	14.3198	0	14.3198	17
## 6518	-14.1958	0	14.1958	18
## 6519	14.1903	0	14.1903	19
## 6520	-13.8838	0	13.8838	20
## 6521	13.7630	0	13.7630	21
## 6522	-13.3392	0	13.3392	22
## 6523	13.2052	0	13.2052	23
## 6524	-13.1161	0	13.1161	24
## 6525	12.8284	0	12.8284	25
## 6526	12.4582	0	12.4582	26
## 6527	-12.2883	0	12.2883	27
## 6528	-12.1961	0	12.1961	28
## 6529	11.9690	0	11.9690	29
## 6530	-11.7843	0	11.7843	30
## 6531	11.5375	0	11.5375	31
## 6532	11.2661	0	11.2661	32
## 6533	-11.1683	0	11.1683	33
## 6534	10.9174	0	10.9174	34
## 6535	-10.9018	0	10.9018	35
## 6536	-10.7326	0	10.7326	36
## 6537	10.5251	0	10.5251	37
## 6538	-10.2428	0	10.2428	38
## 6539	10.0715	0	10.0715	39
## 6540	-9.9969	0	9.9969	40
## 6541	9.9587	0	9.9587	41
## 6542	-9.6958	0	9.6958	42
## 6543	9.4476	0	9.4476	43
## 6544	9.2798	0	9.2798	44
## 6545	-9.0526	0	9.0526	45
## 6546	8.9499	0	8.9499	46
## 6547	-8.7575	0	8.7575	47
## 6548	8.6053	0	8.6053	48
## 6549	-8.3939	0	8.3939	49
## 6550	8.2322	0	8.2322	50
## 6551	-8.0688	0	8.0688	51
## 6552	7.8752	0	7.8752	52
## 6553	-7.8358	0	7.8358	53
## 6554	7.4406	0	7.4406	54

## 6555	-7.3775	0	7.3775	55
## 6556	-7.1657	0	7.1657	56
## 6557	7.1025	0	7.1025	57
## 6558	6.9012	0	6.9012	58
## 6559	-6.7565	0	6.7565	59
## 6560	-6.5100	0	6.5100	60
## 6561	6.1414	0	6.1414	61
## 6562	5.9673	0	5.9673	62
## 6563	-5.9571	0	5.9571	63
## 6564	5.8422	0	5.8422	64
## 6565	-5.6053	0	5.6053	65
## 6566	5.5540	0	5.5540	66
## 6567	-5.4676	0	5.4676	67
## 6568	5.2309	0	5.2309	68
## 6569	-5.1340	0	5.1340	69
## 6570	5.0332	0	5.0332	70
## 6571	4.7030	0	4.7030	71
## 6572	-4.6053	0	4.6053	72
## 6573	-4.3607	0	4.3607	73
## 6574	4.3026	0	4.3026	74
## 6575	4.1282	0	4.1282	75
## 6576	-4.0411	0	4.0411	76
## 6577	3.7493	0	3.7493	77
## 6578	-3.7154	0	3.7154	78
## 6579	-3.4942	0	3.4942	79
## 6580	3.1834	0	3.1834	80
## 6581	-3.1483	0	3.1483	81
## 6582	3.0442	0	3.0442	82
## 6583	2.8668	0	2.8668	83
## 6584	-2.6433	0	2.6433	84
## 6585	2.4529	0	2.4529	85
## 6586	-2.3281	0	2.3281	86
## 6587	2.0924	0	2.0924	87
## 6588	-2.0297	0	2.0297	88
## 6589	1.8650	0	1.8650	89
## 6590	-1.7869	0	1.7869	90
## 6591	1.7729	0	1.7729	91
## 6592	1.5197	0	1.5197	92
## 6593	-1.4971	0	1.4971	93
## 6594	-1.1503	0	1.1503	94
## 6595	0.7617	0	0.7617	95
## 6596	-0.7066	0	0.7066	96
## 6597	0.4329	0	0.4329	97
## 6598	-0.4266	0	0.4266	98
## 6599	0.1502	0	0.1502	99
## 6600	-0.1495	0	0.1495	100
## 6601	19.4017	0	19.4017	1
## 6602	-18.8625	0	18.8625	2
## 6603	18.4717	0	18.4717	3
## 6604	-18.4672	0	18.4672	4
## 6605	18.1776	0	18.1776	5
## 6606	-17.6056	0	17.6056	6
## 6607	16.8993	0	16.8993	7
## 6608	-16.8609	0	16.8609	8

## 6609	16.4401	0	16.4401	9
## 6610	-16.3900	0	16.3900	10
## 6611	15.8251	0	15.8251	11
## 6612	-15.6457	0	15.6457	12
## 6613	15.2352	0	15.2352	13
## 6614	-15.1655	0	15.1655	14
## 6615	14.8940	0	14.8940	15
## 6616	-14.7396	0	14.7396	16
## 6617	14.3321	0	14.3321	17
## 6618	-14.3147	0	14.3147	18
## 6619	14.1699	0	14.1699	19
## 6620	-13.7974	0	13.7974	20
## 6621	-13.3080	0	13.3080	21
## 6622	13.2419	0	13.2419	22
## 6623	13.0833	0	13.0833	23
## 6624	-12.9614	0	12.9614	24
## 6625	12.7390	0	12.7390	25
## 6626	-12.5926	0	12.5926	26
## 6627	12.2575	0	12.2575	27
## 6628	-12.1945	0	12.1945	28
## 6629	11.8616	0	11.8616	29
## 6630	-11.7425	0	11.7425	30
## 6631	11.5508	0	11.5508	31
## 6632	-11.3858	0	11.3858	32
## 6633	-11.0687	0	11.0687	33
## 6634	10.9450	0	10.9450	34
## 6635	10.7598	0	10.7598	35
## 6636	-10.5621	0	10.5621	36
## 6637	10.4613	0	10.4613	37
## 6638	-10.2128	0	10.2128	38
## 6639	9.9771	0	9.9771	39
## 6640	-9.7757	0	9.7757	40
## 6641	9.5573	0	9.5573	41
## 6642	-9.4306	0	9.4306	42
## 6643	9.2336	0	9.2336	43
## 6644	-9.0604	0	9.0604	44
## 6645	8.9232	0	8.9232	45
## 6646	-8.8267	0	8.8267	46
## 6647	8.6228	0	8.6228	47
## 6648	-8.4786	0	8.4786	48
## 6649	8.4596	0	8.4596	49
## 6650	-8.2200	0	8.2200	50
## 6651	-8.0110	0	8.0110	51
## 6652	7.8578	0	7.8578	52
## 6653	7.6534	0	7.6534	53
## 6654	-7.5380	0	7.5380	54
## 6655	7.3837	0	7.3837	55
## 6656	-7.2608	0	7.2608	56
## 6657	6.8240	0	6.8240	57
## 6658	-6.7968	0	6.7968	58
## 6659	6.5195	0	6.5195	59
## 6660	-6.3524	0	6.3524	60
## 6661	6.2858	0	6.2858	61
## 6662	5.9642	0	5.9642	62

## 6663	-5.8145	0	5.8145	63
## 6664	5.8053	0	5.8053	64
## 6665	-5.5398	0	5.5398	65
## 6666	5.3779	0	5.3779	66
## 6667	5.1433	0	5.1433	67
## 6668	-5.0588	0	5.0588	68
## 6669	-4.8978	0	4.8978	69
## 6670	4.6785	0	4.6785	70
## 6671	-4.6710	0	4.6710	71
## 6672	4.4760	0	4.4760	72
## 6673	-4.4570	0	4.4570	73
## 6674	-4.1992	0	4.1992	74
## 6675	4.0376	0	4.0376	75
## 6676	-4.0073	0	4.0073	76
## 6677	3.6999	0	3.6999	77
## 6678	-3.6655	0	3.6655	78
## 6679	3.5198	0	3.5198	79
## 6680	-3.1716	0	3.1716	80
## 6681	3.0343	0	3.0343	81
## 6682	2.8152	0	2.8152	82
## 6683	-2.7044	0	2.7044	83
## 6684	-2.6725	0	2.6725	84
## 6685	2.4114	0	2.4114	85
## 6686	-2.3885	0	2.3885	86
## 6687	2.2867	0	2.2867	87
## 6688	-2.1193	0	2.1193	88
## 6689	2.0193	0	2.0193	89
## 6690	-1.8196	0	1.8196	90
## 6691	1.6729	0	1.6729	91
## 6692	1.4664	0	1.4664	92
## 6693	-1.3361	0	1.3361	93
## 6694	-1.1582	0	1.1582	94
## 6695	1.0709	0	1.0709	95
## 6696	-0.9294	0	0.9294	96
## 6697	0.6343	0	0.6343	97
## 6698	-0.4844	0	0.4844	98
## 6699	-0.2261	0	0.2261	99
## 6700	0.1917	0	0.1917	100
## 6701	19.1172	0	19.1172	1
## 6702	-18.9228	0	18.9228	2
## 6703	18.4824	0	18.4824	3
## 6704	-17.9753	0	17.9753	4
## 6705	17.6692	0	17.6692	5
## 6706	17.3303	0	17.3303	6
## 6707	-17.1101	0	17.1101	7
## 6708	16.9692	0	16.9692	8
## 6709	-16.8485	0	16.8485	9
## 6710	-16.3966	0	16.3966	10
## 6711	16.0504	0	16.0504	11
## 6712	-15.7588	0	15.7588	12
## 6713	15.4668	0	15.4668	13
## 6714	15.2423	0	15.2423	14
## 6715	-15.1437	0	15.1437	15
## 6716	-14.7758	0	14.7758	16

## 6717	14.4009	0	14.4009	17
## 6718	-14.3656	0	14.3656	18
## 6719	14.1702	0	14.1702	19
## 6720	-14.0817	0	14.0817	20
## 6721	13.7431	0	13.7431	21
## 6722	-13.3960	0	13.3960	22
## 6723	-13.2170	0	13.2170	23
## 6724	13.1302	0	13.1302	24
## 6725	12.9305	0	12.9305	25
## 6726	-12.8307	0	12.8307	26
## 6727	12.6077	0	12.6077	27
## 6728	-12.4778	0	12.4778	28
## 6729	12.1804	0	12.1804	29
## 6730	12.1427	0	12.1427	30
## 6731	-12.0046	0	12.0046	31
## 6732	11.6000	0	11.6000	32
## 6733	-11.3642	0	11.3642	33
## 6734	-11.1921	0	11.1921	34
## 6735	-10.9346	0	10.9346	35
## 6736	10.8352	0	10.8352	36
## 6737	10.4972	0	10.4972	37
## 6738	-10.3459	0	10.3459	38
## 6739	10.1192	0	10.1192	39
## 6740	-10.0566	0	10.0566	40
## 6741	9.8768	0	9.8768	41
## 6742	-9.8233	0	9.8233	42
## 6743	9.4086	0	9.4086	43
## 6744	-9.2991	0	9.2991	44
## 6745	9.0438	0	9.0438	45
## 6746	-8.9314	0	8.9314	46
## 6747	8.6760	0	8.6760	47
## 6748	-8.5871	0	8.5871	48
## 6749	8.3889	0	8.3889	49
## 6750	-8.2694	0	8.2694	50
## 6751	-7.9761	0	7.9761	51
## 6752	7.9276	0	7.9276	52
## 6753	7.6116	0	7.6116	53
## 6754	-7.5583	0	7.5583	54
## 6755	7.4834	0	7.4834	55
## 6756	-7.0981	0	7.0981	56
## 6757	7.0875	0	7.0875	57
## 6758	-6.6619	0	6.6619	58
## 6759	6.6474	0	6.6474	59
## 6760	-6.4660	0	6.4660	60
## 6761	-6.3905	0	6.3905	61
## 6762	6.1718	0	6.1718	62
## 6763	5.8888	0	5.8888	63
## 6764	-5.8073	0	5.8073	64
## 6765	5.5401	0	5.5401	65
## 6766	-5.4515	0	5.4515	66
## 6767	5.3440	0	5.3440	67
## 6768	5.0162	0	5.0162	68
## 6769	-4.8381	0	4.8381	69
## 6770	4.8248	0	4.8248	70

## 6771	-4.7169	0	4.7169	71
## 6772	4.3894	0	4.3894	72
## 6773	-4.3396	0	4.3396	73
## 6774	4.0971	0	4.0971	74
## 6775	-4.0247	0	4.0247	75
## 6776	-3.8624	0	3.8624	76
## 6777	3.6528	0	3.6528	77
## 6778	-3.5904	0	3.5904	78
## 6779	3.4451	0	3.4451	79
## 6780	-3.3143	0	3.3143	80
## 6781	3.1622	0	3.1622	81
## 6782	-2.9569	0	2.9569	82
## 6783	-2.7334	0	2.7334	83
## 6784	2.6826	0	2.6826	84
## 6785	2.3607	0	2.3607	85
## 6786	-2.1015	0	2.1015	86
## 6787	1.9991	0	1.9991	87
## 6788	-1.9418	0	1.9418	88
## 6789	1.7739	0	1.7739	89
## 6790	-1.5513	0	1.5513	90
## 6791	1.5065	0	1.5065	91
## 6792	-1.4051	0	1.4051	92
## 6793	1.2937	0	1.2937	93
## 6794	-1.1531	0	1.1531	94
## 6795	0.9212	0	0.9212	95
## 6796	-0.8519	0	0.8519	96
## 6797	-0.4558	0	0.4558	97
## 6798	0.4525	0	0.4525	98
## 6799	0.2050	0	0.2050	99
## 6800	-0.0549	0	0.0549	100
## 6801	19.4438	0	19.4438	1
## 6802	-18.8795	0	18.8795	2
## 6803	18.6754	0	18.6754	3
## 6804	-18.1719	0	18.1719	4
## 6805	17.7508	0	17.7508	5
## 6806	-17.5279	0	17.5279	6
## 6807	-16.9314	0	16.9314	7
## 6808	16.9249	0	16.9249	8
## 6809	16.4579	0	16.4579	9
## 6810	-16.2863	0	16.2863	10
## 6811	16.0458	0	16.0458	11
## 6812	-15.9655	0	15.9655	12
## 6813	15.5475	0	15.5475	13
## 6814	-15.4208	0	15.4208	14
## 6815	15.0924	0	15.0924	15
## 6816	-15.0391	0	15.0391	16
## 6817	14.6629	0	14.6629	17
## 6818	14.1623	0	14.1623	18
## 6819	-14.0293	0	14.0293	19
## 6820	13.8641	0	13.8641	20
## 6821	-13.7548	0	13.7548	21
## 6822	13.3614	0	13.3614	22
## 6823	-13.0918	0	13.0918	23
## 6824	-13.0072	0	13.0072	24

## 6825	12.8006	0	12.8006	25
## 6826	-12.5209	0	12.5209	26
## 6827	-12.2670	0	12.2670	27
## 6828	12.2661	0	12.2661	28
## 6829	11.9420	0	11.9420	29
## 6830	-11.7018	0	11.7018	30
## 6831	-11.5718	0	11.5718	31
## 6832	11.3134	0	11.3134	32
## 6833	-11.1998	0	11.1998	33
## 6834	11.0022	0	11.0022	34
## 6835	-10.7409	0	10.7409	35
## 6836	10.5476	0	10.5476	36
## 6837	10.3040	0	10.3040	37
## 6838	-10.3023	0	10.3023	38
## 6839	-10.0810	0	10.0810	39
## 6840	10.0794	0	10.0794	40
## 6841	-9.6759	0	9.6759	41
## 6842	9.6551	0	9.6551	42
## 6843	-9.2854	0	9.2854	43
## 6844	9.2071	0	9.2071	44
## 6845	-9.0800	0	9.0800	45
## 6846	9.0359	0	9.0359	46
## 6847	8.7572	0	8.7572	47
## 6848	-8.6347	0	8.6347	48
## 6849	-8.3327	0	8.3327	49
## 6850	8.2489	0	8.2489	50
## 6851	-7.8974	0	7.8974	51
## 6852	7.8290	0	7.8290	52
## 6853	-7.7828	0	7.7828	53
## 6854	7.5360	0	7.5360	54
## 6855	-7.3022	0	7.3022	55
## 6856	7.0596	0	7.0596	56
## 6857	-6.9750	0	6.9750	57
## 6858	6.8683	0	6.8683	58
## 6859	6.6980	0	6.6980	59
## 6860	-6.5917	0	6.5917	60
## 6861	6.4746	0	6.4746	61
## 6862	-6.2433	0	6.2433	62
## 6863	6.0687	0	6.0687	63
## 6864	-5.9828	0	5.9828	64
## 6865	5.5027	0	5.5027	65
## 6866	-5.4305	0	5.4305	66
## 6867	5.3567	0	5.3567	67
## 6868	-5.1353	0	5.1353	68
## 6869	4.9311	0	4.9311	69
## 6870	-4.8065	0	4.8065	70
## 6871	4.5763	0	4.5763	71
## 6872	-4.4114	0	4.4114	72
## 6873	4.3018	0	4.3018	73
## 6874	-4.1214	0	4.1214	74
## 6875	4.0243	0	4.0243	75
## 6876	3.8248	0	3.8248	76
## 6877	-3.8001	0	3.8001	77
## 6878	-3.5646	0	3.5646	78

## 6879	-3.3631	0	3.3631	79
## 6880	3.1320	0	3.1320	80
## 6881	-3.1180	0	3.1180	81
## 6882	-2.7576	0	2.7576	82
## 6883	2.7275	0	2.7275	83
## 6884	2.6542	0	2.6542	84
## 6885	2.4313	0	2.4313	85
## 6886	-2.2795	0	2.2795	86
## 6887	-2.1240	0	2.1240	87
## 6888	2.0175	0	2.0175	88
## 6889	1.8376	0	1.8376	89
## 6890	-1.7314	0	1.7314	90
## 6891	1.5789	0	1.5789	91
## 6892	-1.4896	0	1.4896	92
## 6893	-1.2346	0	1.2346	93
## 6894	1.0860	0	1.0860	94
## 6895	-0.8235	0	0.8235	95
## 6896	0.7654	0	0.7654	96
## 6897	-0.4766	0	0.4766	97
## 6898	0.4430	0	0.4430	98
## 6899	0.2593	0	0.2593	99
## 6900	-0.1413	0	0.1413	100
## 6901	19.4148	0	19.4148	1
## 6902	-18.6374	0	18.6374	2
## 6903	18.5390	0	18.5390	3
## 6904	-17.9934	0	17.9934	4
## 6905	17.4467	0	17.4467	5
## 6906	-17.1137	0	17.1137	6
## 6907	16.8317	0	16.8317	7
## 6908	-16.4417	0	16.4417	8
## 6909	16.4076	0	16.4076	9
## 6910	-16.0990	0	16.0990	10
## 6911	15.9837	0	15.9837	11
## 6912	-15.4945	0	15.4945	12
## 6913	15.0525	0	15.0525	13
## 6914	-14.8807	0	14.8807	14
## 6915	14.8473	0	14.8473	15
## 6916	-14.5755	0	14.5755	16
## 6917	14.2741	0	14.2741	17
## 6918	-13.9631	0	13.9631	18
## 6919	13.7083	0	13.7083	19
## 6920	-13.5562	0	13.5562	20
## 6921	-13.4070	0	13.4070	21
## 6922	13.3190	0	13.3190	22
## 6923	13.0304	0	13.0304	23
## 6924	12.9717	0	12.9717	24
## 6925	-12.7690	0	12.7690	25
## 6926	12.2663	0	12.2663	26
## 6927	-12.2031	0	12.2031	27
## 6928	12.0517	0	12.0517	28
## 6929	-11.8017	0	11.8017	29
## 6930	-11.6310	0	11.6310	30
## 6931	11.5197	0	11.5197	31
## 6932	-11.2395	0	11.2395	32

## 6933	10.8833	0	10.8833	33
## 6934	-10.8654	0	10.8654	34
## 6935	10.6408	0	10.6408	35
## 6936	-10.4470	0	10.4470	36
## 6937	10.3265	0	10.3265	37
## 6938	-10.0411	0	10.0411	38
## 6939	9.7937	0	9.7937	39
## 6940	9.7037	0	9.7037	40
## 6941	-9.6969	0	9.6969	41
## 6942	-9.4898	0	9.4898	42
## 6943	9.1784	0	9.1784	43
## 6944	8.8978	0	8.8978	44
## 6945	-8.8726	0	8.8726	45
## 6946	-8.6475	0	8.6475	46
## 6947	8.5583	0	8.5583	47
## 6948	-8.4838	0	8.4838	48
## 6949	-8.2955	0	8.2955	49
## 6950	8.2524	0	8.2524	50
## 6951	7.9712	0	7.9712	51
## 6952	-7.6199	0	7.6199	52
## 6953	7.5584	0	7.5584	53
## 6954	-7.4008	0	7.4008	54
## 6955	7.3137	0	7.3137	55
## 6956	-7.1586	0	7.1586	56
## 6957	7.0266	0	7.0266	57
## 6958	-6.6466	0	6.6466	58
## 6959	6.5788	0	6.5788	59
## 6960	-6.4288	0	6.4288	60
## 6961	6.4182	0	6.4182	61
## 6962	-6.0460	0	6.0460	62
## 6963	-5.9080	0	5.9080	63
## 6964	5.8572	0	5.8572	64
## 6965	5.4086	0	5.4086	65
## 6966	-5.2466	0	5.2466	66
## 6967	5.1820	0	5.1820	67
## 6968	-5.0013	0	5.0013	68
## 6969	4.9349	0	4.9349	69
## 6970	4.7314	0	4.7314	70
## 6971	-4.6043	0	4.6043	71
## 6972	4.4741	0	4.4741	72
## 6973	-4.2570	0	4.2570	73
## 6974	4.1313	0	4.1313	74
## 6975	-4.0025	0	4.0025	75
## 6976	3.7312	0	3.7312	76
## 6977	-3.6513	0	3.6513	77
## 6978	-3.5276	0	3.5276	78
## 6979	3.4481	0	3.4481	79
## 6980	3.2883	0	3.2883	80
## 6981	3.0911	0	3.0911	81
## 6982	-3.0478	0	3.0478	82
## 6983	-2.8669	0	2.8669	83
## 6984	-2.7528	0	2.7528	84
## 6985	2.6698	0	2.6698	85
## 6986	-2.4603	0	2.4603	86

## 6987	-2.0864	0	2.0864	87
## 6988	2.0556	0	2.0556	88
## 6989	1.8190	0	1.8190	89
## 6990	1.4181	0	1.4181	90
## 6991	-1.3875	0	1.3875	91
## 6992	-1.3478	0	1.3478	92
## 6993	1.2439	0	1.2439	93
## 6994	1.0268	0	1.0268	94
## 6995	-0.9010	0	0.9010	95
## 6996	0.5548	0	0.5548	96
## 6997	-0.4974	0	0.4974	97
## 6998	0.2972	0	0.2972	98
## 6999	-0.2653	0	0.2653	99
## 7000	0.1235	0	0.1235	100
## 7001	19.7495	0	19.7495	1
## 7002	-19.3176	0	19.3176	2
## 7003	-18.6094	0	18.6094	3
## 7004	18.0317	0	18.0317	4
## 7005	17.4655	0	17.4655	5
## 7006	-17.4640	0	17.4640	6
## 7007	16.7319	0	16.7319	7
## 7008	-16.7046	0	16.7046	8
## 7009	-16.3628	0	16.3628	9
## 7010	16.3208	0	16.3208	10
## 7011	-16.0000	0	16.0000	11
## 7012	15.6780	0	15.6780	12
## 7013	15.3311	0	15.3311	13
## 7014	-15.3043	0	15.3043	14
## 7015	14.9325	0	14.9325	15
## 7016	-14.7759	0	14.7759	16
## 7017	-14.6642	0	14.6642	17
## 7018	14.6477	0	14.6477	18
## 7019	-14.1303	0	14.1303	19
## 7020	13.6813	0	13.6813	20
## 7021	-13.5677	0	13.5677	21
## 7022	13.4457	0	13.4457	22
## 7023	-13.2263	0	13.2263	23
## 7024	12.9627	0	12.9627	24
## 7025	-12.8795	0	12.8795	25
## 7026	12.5589	0	12.5589	26
## 7027	-12.3294	0	12.3294	27
## 7028	12.1793	0	12.1793	28
## 7029	-12.0764	0	12.0764	29
## 7030	11.6096	0	11.6096	30
## 7031	-11.5862	0	11.5862	31
## 7032	11.2952	0	11.2952	32
## 7033	-11.1483	0	11.1483	33
## 7034	-10.9781	0	10.9781	34
## 7035	10.7565	0	10.7565	35
## 7036	-10.6735	0	10.6735	36
## 7037	10.5839	0	10.5839	37
## 7038	10.3321	0	10.3321	38
## 7039	-10.2868	0	10.2868	39
## 7040	9.8320	0	9.8320	40

## 7041	-9.7705	0	9.7705	41
## 7042	9.6668	0	9.6668	42
## 7043	-9.5467	0	9.5467	43
## 7044	-9.2160	0	9.2160	44
## 7045	8.9315	0	8.9315	45
## 7046	-8.8672	0	8.8672	46
## 7047	8.6078	0	8.6078	47
## 7048	8.4711	0	8.4711	48
## 7049	8.3215	0	8.3215	49
## 7050	-8.2910	0	8.2910	50
## 7051	-8.1793	0	8.1793	51
## 7052	7.9154	0	7.9154	52
## 7053	7.7457	0	7.7457	53
## 7054	-7.6494	0	7.6494	54
## 7055	-7.4703	0	7.4703	55
## 7056	7.3863	0	7.3863	56
## 7057	-7.2337	0	7.2337	57
## 7058	6.9123	0	6.9123	58
## 7059	-6.8575	0	6.8575	59
## 7060	6.4799	0	6.4799	60
## 7061	-6.4606	0	6.4606	61
## 7062	6.1411	0	6.1411	62
## 7063	-5.9465	0	5.9465	63
## 7064	5.8557	0	5.8557	64
## 7065	-5.7884	0	5.7884	65
## 7066	5.5926	0	5.5926	66
## 7067	-5.5232	0	5.5232	67
## 7068	5.4177	0	5.4177	68
## 7069	5.0359	0	5.0359	69
## 7070	-4.9858	0	4.9858	70
## 7071	-4.8651	0	4.8651	71
## 7072	4.5323	0	4.5323	72
## 7073	-4.4893	0	4.4893	73
## 7074	-4.3957	0	4.3957	74
## 7075	4.2511	0	4.2511	75
## 7076	4.1404	0	4.1404	76
## 7077	-3.8140	0	3.8140	77
## 7078	3.6616	0	3.6616	78
## 7079	-3.6537	0	3.6537	79
## 7080	3.4205	0	3.4205	80
## 7081	-3.0557	0	3.0557	81
## 7082	2.9760	0	2.9760	82
## 7083	2.8511	0	2.8511	83
## 7084	-2.7323	0	2.7323	84
## 7085	-2.4424	0	2.4424	85
## 7086	2.3982	0	2.3982	86
## 7087	-2.2078	0	2.2078	87
## 7088	1.9829	0	1.9829	88
## 7089	-1.9171	0	1.9171	89
## 7090	1.8030	0	1.8030	90
## 7091	-1.3926	0	1.3926	91
## 7092	1.2796	0	1.2796	92
## 7093	-1.2089	0	1.2089	93
## 7094	-1.0181	0	1.0181	94

## 7095	0.9509	0	0.9509	95
## 7096	-0.8306	0	0.8306	96
## 7097	0.7407	0	0.7407	97
## 7098	-0.3873	0	0.3873	98
## 7099	0.3495	0	0.3495	99
## 7100	0.1463	0	0.1463	100
## 7101	-19.7817	0	19.7817	1
## 7102	-18.9239	0	18.9239	2
## 7103	18.1786	0	18.1786	3
## 7104	-17.8533	0	17.8533	4
## 7105	17.7786	0	17.7786	5
## 7106	-17.1537	0	17.1537	6
## 7107	17.1524	0	17.1524	7
## 7108	16.7158	0	16.7158	8
## 7109	-16.6125	0	16.6125	9
## 7110	16.3743	0	16.3743	10
## 7111	-16.0245	0	16.0245	11
## 7112	15.6073	0	15.6073	12
## 7113	-15.5277	0	15.5277	13
## 7114	15.0164	0	15.0164	14
## 7115	-14.9176	0	14.9176	15
## 7116	-14.5227	0	14.5227	16
## 7117	14.3919	0	14.3919	17
## 7118	-14.0490	0	14.0490	18
## 7119	13.9147	0	13.9147	19
## 7120	-13.6078	0	13.6078	20
## 7121	13.6077	0	13.6077	21
## 7122	13.4318	0	13.4318	22
## 7123	-13.2032	0	13.2032	23
## 7124	13.1031	0	13.1031	24
## 7125	-12.7950	0	12.7950	25
## 7126	12.7888	0	12.7888	26
## 7127	-12.6319	0	12.6319	27
## 7128	12.4543	0	12.4543	28
## 7129	-12.0598	0	12.0598	29
## 7130	11.9320	0	11.9320	30
## 7131	-11.9216	0	11.9216	31
## 7132	11.4064	0	11.4064	32
## 7133	-11.3643	0	11.3643	33
## 7134	-11.0331	0	11.0331	34
## 7135	10.9790	0	10.9790	35
## 7136	10.8014	0	10.8014	36
## 7137	-10.5963	0	10.5963	37
## 7138	-10.2324	0	10.2324	38
## 7139	10.2189	0	10.2189	39
## 7140	10.0828	0	10.0828	40
## 7141	-9.7003	0	9.7003	41
## 7142	9.6109	0	9.6109	42
## 7143	-9.5552	0	9.5552	43
## 7144	9.4449	0	9.4449	44
## 7145	-9.0825	0	9.0825	45
## 7146	8.9941	0	8.9941	46
## 7147	8.5217	0	8.5217	47
## 7148	-8.5163	0	8.5163	48

## 7149	-8.2571	0	8.2571	49
## 7150	8.0561	0	8.0561	50
## 7151	-8.0418	0	8.0418	51
## 7152	-7.7093	0	7.7093	52
## 7153	7.5899	0	7.5899	53
## 7154	-7.3710	0	7.3710	54
## 7155	7.2987	0	7.2987	55
## 7156	7.2710	0	7.2710	56
## 7157	-7.2150	0	7.2150	57
## 7158	6.9053	0	6.9053	58
## 7159	-6.7488	0	6.7488	59
## 7160	-6.5370	0	6.5370	60
## 7161	6.5242	0	6.5242	61
## 7162	6.2204	0	6.2204	62
## 7163	6.0419	0	6.0419	63
## 7164	-5.9706	0	5.9706	64
## 7165	-5.6866	0	5.6866	65
## 7166	5.4074	0	5.4074	66
## 7167	-5.1864	0	5.1864	67
## 7168	5.1636	0	5.1636	68
## 7169	4.9898	0	4.9898	69
## 7170	-4.9179	0	4.9179	70
## 7171	-4.6541	0	4.6541	71
## 7172	4.6299	0	4.6299	72
## 7173	-4.5103	0	4.5103	73
## 7174	4.4127	0	4.4127	74
## 7175	-4.1471	0	4.1471	75
## 7176	3.9800	0	3.9800	76
## 7177	3.7212	0	3.7212	77
## 7178	-3.6638	0	3.6638	78
## 7179	3.4576	0	3.4576	79
## 7180	-3.1955	0	3.1955	80
## 7181	-2.9207	0	2.9207	81
## 7182	2.8416	0	2.8416	82
## 7183	-2.8191	0	2.8191	83
## 7184	2.5052	0	2.5052	84
## 7185	-2.4163	0	2.4163	85
## 7186	2.2585	0	2.2585	86
## 7187	-2.2090	0	2.2090	87
## 7188	1.8605	0	1.8605	88
## 7189	-1.7784	0	1.7784	89
## 7190	1.6860	0	1.6860	90
## 7191	-1.4775	0	1.4775	91
## 7192	1.3239	0	1.3239	92
## 7193	-1.2661	0	1.2661	93
## 7194	-1.0581	0	1.0581	94
## 7195	0.7290	0	0.7290	95
## 7196	-0.5935	0	0.5935	96
## 7197	0.5152	0	0.5152	97
## 7198	-0.3291	0	0.3291	98
## 7199	0.2248	0	0.2248	99
## 7200	-0.0054	0	0.0054	100
## 7201	19.4176	0	19.4176	1
## 7202	-19.1697	0	19.1697	2

##	7203	-18.8340	0	18.8340	3
##	7204	-17.8275	0	17.8275	4
##	7205	17.7655	0	17.7655	5
##	7206	-17.4282	0	17.4282	6
##	7207	17.1682	0	17.1682	7
##	7208	-16.9865	0	16.9865	8
##	7209	-16.5338	0	16.5338	9
##	7210	16.5179	0	16.5179	10
##	7211	-16.1297	0	16.1297	11
##	7212	15.8731	0	15.8731	12
##	7213	15.5948	0	15.5948	13
##	7214	-15.0709	0	15.0709	14
##	7215	15.0353	0	15.0353	15
##	7216	-14.7784	0	14.7784	16
##	7217	14.7672	0	14.7672	17
##	7218	14.2463	0	14.2463	18
##	7219	-14.0818	0	14.0818	19
##	7220	13.8100	0	13.8100	20
##	7221	13.4472	0	13.4472	21
##	7222	-13.3606	0	13.3606	22
##	7223	-13.1552	0	13.1552	23
##	7224	13.0408	0	13.0408	24
##	7225	-12.9355	0	12.9355	25
##	7226	12.3699	0	12.3699	26
##	7227	-12.3446	0	12.3446	27
##	7228	-11.9945	0	11.9945	28
##	7229	11.8662	0	11.8662	29
##	7230	11.3226	0	11.3226	30
##	7231	-11.2826	0	11.2826	31
##	7232	-11.1484	0	11.1484	32
##	7233	-11.0639	0	11.0639	33
##	7234	11.0203	0	11.0203	34
##	7235	10.6142	0	10.6142	35
##	7236	-10.6083	0	10.6083	36
##	7237	10.4382	0	10.4382	37
##	7238	-10.4019	0	10.4019	38
##	7239	9.9655	0	9.9655	39
##	7240	9.8418	0	9.8418	40
##	7241	-9.8132	0	9.8132	41
##	7242	9.4325	0	9.4325	42
##	7243	-9.4007	0	9.4007	43
##	7244	9.1012	0	9.1012	44
##	7245	-9.1002	0	9.1002	45
##	7246	-8.9064	0	8.9064	46
##	7247	8.5640	0	8.5640	47
##	7248	8.3569	0	8.3569	48
##	7249	-8.2969	0	8.2969	49
##	7250	-8.1544	0	8.1544	50
##	7251	7.9764	0	7.9764	51
##	7252	-7.9543	0	7.9543	52
##	7253	7.7662	0	7.7662	53
##	7254	-7.5261	0	7.5261	54
##	7255	7.4861	0	7.4861	55
##	7256	7.3467	0	7.3467	56

##	7257	-7.0036	0	7.0036	57
##	7258	6.9421	0	6.9421	58
##	7259	-6.6767	0	6.6767	59
##	7260	-6.4547	0	6.4547	60
##	7261	6.2507	0	6.2507	61
##	7262	6.0974	0	6.0974	62
##	7263	-6.0627	0	6.0627	63
##	7264	5.8107	0	5.8107	64
##	7265	-5.6990	0	5.6990	65
##	7266	5.6465	0	5.6465	66
##	7267	-5.5945	0	5.5945	67
##	7268	-5.3479	0	5.3479	68
##	7269	5.1209	0	5.1209	69
##	7270	-4.9533	0	4.9533	70
##	7271	4.8852	0	4.8852	71
##	7272	-4.6427	0	4.6427	72
##	7273	4.5394	0	4.5394	73
##	7274	-4.3877	0	4.3877	74
##	7275	4.0437	0	4.0437	75
##	7276	-3.9844	0	3.9844	76
##	7277	3.7381	0	3.7381	77
##	7278	-3.6694	0	3.6694	78
##	7279	3.4573	0	3.4573	79
##	7280	-3.3305	0	3.3305	80
##	7281	-2.9960	0	2.9960	81
##	7282	2.9905	0	2.9905	82
##	7283	2.7021	0	2.7021	83
##	7284	2.6337	0	2.6337	84
##	7285	-2.4370	0	2.4370	85
##	7286	2.3284	0	2.3284	86
##	7287	-2.2366	0	2.2366	87
##	7288	-1.9966	0	1.9966	88
##	7289	1.9213	0	1.9213	89
##	7290	-1.7813	0	1.7813	90
##	7291	1.4804	0	1.4804	91
##	7292	-1.3751	0	1.3751	92
##	7293	1.1870	0	1.1870	93
##	7294	-0.8223	0	0.8223	94
##	7295	0.7471	0	0.7471	95
##	7296	-0.5204	0	0.5204	96
##	7297	0.4180	0	0.4180	97
##	7298	-0.2554	0	0.2554	98
##	7299	0.2036	0	0.2036	99
##	7300	0.0421	0	0.0421	100
##	7301	-19.7200	0	19.7200	1
##	7302	19.3475	0	19.3475	2
##	7303	-18.6900	0	18.6900	3
##	7304	18.3270	0	18.3270	4
##	7305	17.9013	0	17.9013	5
##	7306	-17.4843	0	17.4843	6
##	7307	17.2421	0	17.2421	7
##	7308	-16.9726	0	16.9726	8
##	7309	-16.7083	0	16.7083	9
##	7310	-16.0079	0	16.0079	10

## 7311	15.9177	0	15.9177	11
## 7312	15.8585	0	15.8585	12
## 7313	15.4990	0	15.4990	13
## 7314	-15.3104	0	15.3104	14
## 7315	-14.8994	0	14.8994	15
## 7316	-14.5909	0	14.5909	16
## 7317	14.5782	0	14.5782	17
## 7318	14.4194	0	14.4194	18
## 7319	-14.0900	0	14.0900	19
## 7320	13.9251	0	13.9251	20
## 7321	13.6755	0	13.6755	21
## 7322	-13.2815	0	13.2815	22
## 7323	-13.0503	0	13.0503	23
## 7324	13.0193	0	13.0193	24
## 7325	12.7598	0	12.7598	25
## 7326	-12.7270	0	12.7270	26
## 7327	-12.4535	0	12.4535	27
## 7328	12.3752	0	12.3752	28
## 7329	-12.2734	0	12.2734	29
## 7330	11.9760	0	11.9760	30
## 7331	-11.7166	0	11.7166	31
## 7332	-11.4275	0	11.4275	32
## 7333	11.2614	0	11.2614	33
## 7334	-11.0731	0	11.0731	34
## 7335	10.8522	0	10.8522	35
## 7336	10.5995	0	10.5995	36
## 7337	-10.4289	0	10.4289	37
## 7338	-10.1846	0	10.1846	38
## 7339	10.1349	0	10.1349	39
## 7340	9.9227	0	9.9227	40
## 7341	-9.8389	0	9.8389	41
## 7342	9.6699	0	9.6699	42
## 7343	9.5051	0	9.5051	43
## 7344	-9.4950	0	9.4950	44
## 7345	-9.2573	0	9.2573	45
## 7346	9.1152	0	9.1152	46
## 7347	-9.0191	0	9.0191	47
## 7348	8.7001	0	8.7001	48
## 7349	-8.6009	0	8.6009	49
## 7350	8.2763	0	8.2763	50
## 7351	-8.2062	0	8.2062	51
## 7352	8.1000	0	8.1000	52
## 7353	7.8841	0	7.8841	53
## 7354	-7.8210	0	7.8210	54
## 7355	-7.7610	0	7.7610	55
## 7356	7.4356	0	7.4356	56
## 7357	-7.2908	0	7.2908	57
## 7358	7.0599	0	7.0599	58
## 7359	-6.9816	0	6.9816	59
## 7360	-6.6353	0	6.6353	60
## 7361	6.4775	0	6.4775	61
## 7362	6.3795	0	6.3795	62
## 7363	-6.0500	0	6.0500	63
## 7364	6.0036	0	6.0036	64

## 7365	-5.8185	0	5.8185	65
## 7366	-5.5733	0	5.5733	66
## 7367	5.4442	0	5.4442	67
## 7368	-5.2791	0	5.2791	68
## 7369	5.0609	0	5.0609	69
## 7370	-4.9355	0	4.9355	70
## 7371	4.6383	0	4.6383	71
## 7372	-4.6112	0	4.6112	72
## 7373	4.5659	0	4.5659	73
## 7374	4.2269	0	4.2269	74
## 7375	-4.0420	0	4.0420	75
## 7376	-3.8781	0	3.8781	76
## 7377	3.8712	0	3.8712	77
## 7378	-3.6724	0	3.6724	78
## 7379	3.4929	0	3.4929	79
## 7380	-3.1186	0	3.1186	80
## 7381	3.0986	0	3.0986	81
## 7382	-2.8438	0	2.8438	82
## 7383	2.7946	0	2.7946	83
## 7384	-2.5986	0	2.5986	84
## 7385	2.4075	0	2.4075	85
## 7386	-2.3506	0	2.3506	86
## 7387	2.2608	0	2.2608	87
## 7388	-1.7582	0	1.7582	88
## 7389	1.6789	0	1.6789	89
## 7390	1.4472	0	1.4472	90
## 7391	1.2880	0	1.2880	91
## 7392	-1.2328	0	1.2328	92
## 7393	-0.9804	0	0.9804	93
## 7394	-0.8583	0	0.8583	94
## 7395	0.7905	0	0.7905	95
## 7396	-0.5742	0	0.5742	96
## 7397	0.5072	0	0.5072	97
## 7398	0.2970	0	0.2970	98
## 7399	-0.2057	0	0.2057	99
## 7400	-0.0361	0	0.0361	100
## 7401	-19.1481	0	19.1481	1
## 7402	18.8969	0	18.8969	2
## 7403	18.5390	0	18.5390	3
## 7404	-18.0643	0	18.0643	4
## 7405	17.8401	0	17.8401	5
## 7406	17.1499	0	17.1499	6
## 7407	-16.7970	0	16.7970	7
## 7408	16.6598	0	16.6598	8
## 7409	-16.5408	0	16.5408	9
## 7410	-16.4052	0	16.4052	10
## 7411	16.2737	0	16.2737	11
## 7412	-15.7200	0	15.7200	12
## 7413	15.6833	0	15.6833	13
## 7414	-15.2240	0	15.2240	14
## 7415	-14.6752	0	14.6752	15
## 7416	14.4527	0	14.4527	16
## 7417	-14.2404	0	14.2404	17
## 7418	14.2241	0	14.2241	18

## 7419	13.8660	0	13.8660	19
## 7420	-13.6063	0	13.6063	20
## 7421	13.2875	0	13.2875	21
## 7422	-13.2573	0	13.2573	22
## 7423	-13.1853	0	13.1853	23
## 7424	13.0589	0	13.0589	24
## 7425	12.8961	0	12.8961	25
## 7426	-12.5639	0	12.5639	26
## 7427	12.2594	0	12.2594	27
## 7428	-12.1994	0	12.1994	28
## 7429	12.1520	0	12.1520	29
## 7430	-11.8754	0	11.8754	30
## 7431	11.8711	0	11.8711	31
## 7432	-11.6766	0	11.6766	32
## 7433	11.2486	0	11.2486	33
## 7434	11.0771	0	11.0771	34
## 7435	-11.0569	0	11.0569	35
## 7436	-10.7231	0	10.7231	36
## 7437	10.5421	0	10.5421	37
## 7438	-10.4956	0	10.4956	38
## 7439	10.2273	0	10.2273	39
## 7440	-10.1238	0	10.1238	40
## 7441	9.9042	0	9.9042	41
## 7442	-9.8248	0	9.8248	42
## 7443	-9.6343	0	9.6343	43
## 7444	9.6186	0	9.6186	44
## 7445	9.1901	0	9.1901	45
## 7446	-8.9419	0	8.9419	46
## 7447	-8.6658	0	8.6658	47
## 7448	-8.5947	0	8.5947	48
## 7449	8.4814	0	8.4814	49
## 7450	-8.3371	0	8.3371	50
## 7451	8.2881	0	8.2881	51
## 7452	7.8592	0	7.8592	52
## 7453	7.7332	0	7.7332	53
## 7454	-7.6976	0	7.6976	54
## 7455	7.3517	0	7.3517	55
## 7456	-7.2317	0	7.2317	56
## 7457	-6.9233	0	6.9233	57
## 7458	6.8592	0	6.8592	58
## 7459	-6.5533	0	6.5533	59
## 7460	6.4722	0	6.4722	60
## 7461	-6.2257	0	6.2257	61
## 7462	6.1885	0	6.1885	62
## 7463	5.8272	0	5.8272	63
## 7464	-5.7674	0	5.7674	64
## 7465	-5.4854	0	5.4854	65
## 7466	5.4704	0	5.4704	66
## 7467	5.3743	0	5.3743	67
## 7468	-5.1644	0	5.1644	68
## 7469	-4.9721	0	4.9721	69
## 7470	4.9153	0	4.9153	70
## 7471	4.7360	0	4.7360	71
## 7472	4.4905	0	4.4905	72

## 7473	-4.4600	0	4.4600	73
## 7474	4.3339	0	4.3339	74
## 7475	-4.2325	0	4.2325	75
## 7476	3.9550	0	3.9550	76
## 7477	3.8138	0	3.8138	77
## 7478	-3.6362	0	3.6362	78
## 7479	-3.3860	0	3.3860	79
## 7480	-3.0333	0	3.0333	80
## 7481	2.9554	0	2.9554	81
## 7482	-2.8231	0	2.8231	82
## 7483	2.8182	0	2.8182	83
## 7484	-2.4724	0	2.4724	84
## 7485	2.4147	0	2.4147	85
## 7486	-2.3087	0	2.3087	86
## 7487	2.0909	0	2.0909	87
## 7488	-2.0168	0	2.0168	88
## 7489	1.8549	0	1.8549	89
## 7490	-1.6690	0	1.6690	90
## 7491	1.4294	0	1.4294	91
## 7492	-1.3499	0	1.3499	92
## 7493	1.0204	0	1.0204	93
## 7494	-0.8526	0	0.8526	94
## 7495	0.8273	0	0.8273	95
## 7496	-0.7717	0	0.7717	96
## 7497	0.6713	0	0.6713	97
## 7498	0.4539	0	0.4539	98
## 7499	-0.3388	0	0.3388	99
## 7500	-0.0770	0	0.0770	100
## 7501	-19.5901	0	19.5901	1
## 7502	19.3524	0	19.3524	2
## 7503	18.5804	0	18.5804	3
## 7504	17.9340	0	17.9340	4
## 7505	-17.8453	0	17.8453	5
## 7506	-17.3240	0	17.3240	6
## 7507	-16.9743	0	16.9743	7
## 7508	16.7352	0	16.7352	8
## 7509	-16.2836	0	16.2836	9
## 7510	16.1339	0	16.1339	10
## 7511	-15.6469	0	15.6469	11
## 7512	15.3214	0	15.3214	12
## 7513	-14.9777	0	14.9777	13
## 7514	14.8258	0	14.8258	14
## 7515	-14.4948	0	14.4948	15
## 7516	14.3698	0	14.3698	16
## 7517	-14.1072	0	14.1072	17
## 7518	13.9498	0	13.9498	18
## 7519	-13.7612	0	13.7612	19
## 7520	13.7143	0	13.7143	20
## 7521	13.3666	0	13.3666	21
## 7522	-13.3618	0	13.3618	22
## 7523	-13.1284	0	13.1284	23
## 7524	12.8756	0	12.8756	24
## 7525	-12.4312	0	12.4312	25
## 7526	12.2229	0	12.2229	26

##	7527	-12.0418	0	12.0418	27
##	7528	12.0160	0	12.0160	28
##	7529	-11.7917	0	11.7917	29
##	7530	11.6733	0	11.6733	30
##	7531	-11.3482	0	11.3482	31
##	7532	11.2690	0	11.2690	32
##	7533	11.0115	0	11.0115	33
##	7534	-10.9978	0	10.9978	34
##	7535	-10.6172	0	10.6172	35
##	7536	10.4895	0	10.4895	36
##	7537	10.1050	0	10.1050	37
##	7538	-10.0269	0	10.0269	38
##	7539	9.9333	0	9.9333	39
##	7540	-9.7505	0	9.7505	40
##	7541	9.5941	0	9.5941	41
##	7542	-9.5885	0	9.5885	42
##	7543	-9.2353	0	9.2353	43
##	7544	9.0949	0	9.0949	44
##	7545	8.7746	0	8.7746	45
##	7546	-8.7342	0	8.7342	46
##	7547	8.3887	0	8.3887	47
##	7548	-8.2713	0	8.2713	48
##	7549	-8.1727	0	8.1727	49
##	7550	8.0327	0	8.0327	50
##	7551	7.8665	0	7.8665	51
##	7552	-7.6184	0	7.6184	52
##	7553	7.5645	0	7.5645	53
##	7554	-7.2562	0	7.2562	54
##	7555	7.1578	0	7.1578	55
##	7556	-7.0544	0	7.0544	56
##	7557	6.8769	0	6.8769	57
##	7558	6.6327	0	6.6327	58
##	7559	-6.6166	0	6.6166	59
##	7560	-6.2099	0	6.2099	60
##	7561	6.1176	0	6.1176	61
##	7562	-5.8357	0	5.8357	62
##	7563	5.8194	0	5.8194	63
##	7564	5.6603	0	5.6603	64
##	7565	-5.5179	0	5.5179	65
##	7566	5.1569	0	5.1569	66
##	7567	-5.1052	0	5.1052	67
##	7568	-4.8634	0	4.8634	68
##	7569	4.7160	0	4.7160	69
##	7570	-4.5264	0	4.5264	70
##	7571	4.4978	0	4.4978	71
##	7572	4.4050	0	4.4050	72
##	7573	-4.3197	0	4.3197	73
##	7574	3.9311	0	3.9311	74
##	7575	-3.8998	0	3.8998	75
##	7576	3.7108	0	3.7108	76
##	7577	-3.5452	0	3.5452	77
##	7578	3.3307	0	3.3307	78
##	7579	-3.2218	0	3.2218	79
##	7580	-3.0644	0	3.0644	80

## 7581	3.0171	0	3.0171	81
## 7582	2.7599	0	2.7599	82
## 7583	-2.6468	0	2.6468	83
## 7584	2.4946	0	2.4946	84
## 7585	-2.4676	0	2.4676	85
## 7586	-2.2677	0	2.2677	86
## 7587	2.2369	0	2.2369	87
## 7588	-1.9205	0	1.9205	88
## 7589	1.8796	0	1.8796	89
## 7590	-1.6588	0	1.6588	90
## 7591	1.5004	0	1.5004	91
## 7592	1.1725	0	1.1725	92
## 7593	-1.1610	0	1.1610	93
## 7594	-0.9009	0	0.9009	94
## 7595	0.8935	0	0.8935	95
## 7596	0.6348	0	0.6348	96
## 7597	-0.6047	0	0.6047	97
## 7598	-0.3116	0	0.3116	98
## 7599	0.2664	0	0.2664	99
## 7600	-0.0878	0	0.0878	100
## 7601	-19.4163	0	19.4163	1
## 7602	19.2089	0	19.2089	2
## 7603	-18.7026	0	18.7026	3
## 7604	18.1516	0	18.1516	4
## 7605	-17.6933	0	17.6933	5
## 7606	17.6548	0	17.6548	6
## 7607	-17.1357	0	17.1357	7
## 7608	16.7742	0	16.7742	8
## 7609	-16.7025	0	16.7025	9
## 7610	16.0921	0	16.0921	10
## 7611	-15.9491	0	15.9491	11
## 7612	-15.6704	0	15.6704	12
## 7613	15.6221	0	15.6221	13
## 7614	15.4402	0	15.4402	14
## 7615	-15.2630	0	15.2630	15
## 7616	14.8739	0	14.8739	16
## 7617	-14.7904	0	14.7904	17
## 7618	-14.4177	0	14.4177	18
## 7619	14.0720	0	14.0720	19
## 7620	-14.0277	0	14.0277	20
## 7621	-13.7143	0	13.7143	21
## 7622	13.6589	0	13.6589	22
## 7623	13.2065	0	13.2065	23
## 7624	-13.0016	0	13.0016	24
## 7625	12.6440	0	12.6440	25
## 7626	-12.4417	0	12.4417	26
## 7627	12.2651	0	12.2651	27
## 7628	-12.1344	0	12.1344	28
## 7629	12.0767	0	12.0767	29
## 7630	-11.9811	0	11.9811	30
## 7631	11.5564	0	11.5564	31
## 7632	-11.4555	0	11.4555	32
## 7633	11.2328	0	11.2328	33
## 7634	-10.9242	0	10.9242	34

## 7635	10.8989	0	10.8989	35
## 7636	10.7746	0	10.7746	36
## 7637	10.1556	0	10.1556	37
## 7638	-10.0823	0	10.0823	38
## 7639	-9.8671	0	9.8671	39
## 7640	9.7252	0	9.7252	40
## 7641	-9.6192	0	9.6192	41
## 7642	9.4654	0	9.4654	42
## 7643	-9.2474	0	9.2474	43
## 7644	9.1630	0	9.1630	44
## 7645	8.8506	0	8.8506	45
## 7646	-8.7557	0	8.7557	46
## 7647	8.5825	0	8.5825	47
## 7648	-8.4113	0	8.4113	48
## 7649	-8.2190	0	8.2190	49
## 7650	8.1987	0	8.1987	50
## 7651	7.9454	0	7.9454	51
## 7652	-7.8769	0	7.8769	52
## 7653	7.6466	0	7.6466	53
## 7654	-7.6293	0	7.6293	54
## 7655	7.4706	0	7.4706	55
## 7656	-7.2192	0	7.2192	56
## 7657	7.0522	0	7.0522	57
## 7658	-6.9286	0	6.9286	58
## 7659	6.6330	0	6.6330	59
## 7660	-6.5804	0	6.5804	60
## 7661	-6.4759	0	6.4759	61
## 7662	6.4051	0	6.4051	62
## 7663	6.1990	0	6.1990	63
## 7664	-5.9606	0	5.9606	64
## 7665	5.8846	0	5.8846	65
## 7666	-5.3310	0	5.3310	66
## 7667	-5.2749	0	5.2749	67
## 7668	5.1892	0	5.1892	68
## 7669	4.9274	0	4.9274	69
## 7670	-4.7688	0	4.7688	70
## 7671	-4.4730	0	4.4730	71
## 7672	4.4437	0	4.4437	72
## 7673	-4.1814	0	4.1814	73
## 7674	4.1059	0	4.1059	74
## 7675	3.9255	0	3.9255	75
## 7676	-3.9026	0	3.9026	76
## 7677	3.7749	0	3.7749	77
## 7678	-3.6652	0	3.6652	78
## 7679	3.5189	0	3.5189	79
## 7680	-3.4004	0	3.4004	80
## 7681	3.1562	0	3.1562	81
## 7682	-3.1177	0	3.1177	82
## 7683	-2.8632	0	2.8632	83
## 7684	2.7972	0	2.7972	84
## 7685	-2.5143	0	2.5143	85
## 7686	2.4723	0	2.4723	86
## 7687	2.1671	0	2.1671	87
## 7688	-2.1356	0	2.1356	88

## 7689	-1.8328	0	1.8328	89
## 7690	1.7015	0	1.7015	90
## 7691	-1.3857	0	1.3857	91
## 7692	1.1889	0	1.1889	92
## 7693	-1.0793	0	1.0793	93
## 7694	1.0486	0	1.0486	94
## 7695	-0.8690	0	0.8690	95
## 7696	0.6818	0	0.6818	96
## 7697	-0.5908	0	0.5908	97
## 7698	-0.2594	0	0.2594	98
## 7699	0.1507	0	0.1507	99
## 7700	0.0204	0	0.0204	100
## 7701	-20.1300	0	20.1300	1
## 7702	18.8590	0	18.8590	2
## 7703	-18.4733	0	18.4733	3
## 7704	-18.0178	0	18.0178	4
## 7705	17.9897	0	17.9897	5
## 7706	17.5816	0	17.5816	6
## 7707	-17.4331	0	17.4331	7
## 7708	-16.8816	0	16.8816	8
## 7709	16.8687	0	16.8687	9
## 7710	16.2321	0	16.2321	10
## 7711	-15.9970	0	15.9970	11
## 7712	15.7102	0	15.7102	12
## 7713	-15.3926	0	15.3926	13
## 7714	15.2659	0	15.2659	14
## 7715	-15.0834	0	15.0834	15
## 7716	14.8035	0	14.8035	16
## 7717	-14.6430	0	14.6430	17
## 7718	14.6018	0	14.6018	18
## 7719	-13.9198	0	13.9198	19
## 7720	13.7104	0	13.7104	20
## 7721	-13.4486	0	13.4486	21
## 7722	13.4362	0	13.4362	22
## 7723	-13.0807	0	13.0807	23
## 7724	13.0472	0	13.0472	24
## 7725	12.5021	0	12.5021	25
## 7726	-12.2371	0	12.2371	26
## 7727	12.0965	0	12.0965	27
## 7728	-11.8883	0	11.8883	28
## 7729	11.8013	0	11.8013	29
## 7730	-11.7884	0	11.7884	30
## 7731	11.2566	0	11.2566	31
## 7732	-11.2272	0	11.2272	32
## 7733	-11.0088	0	11.0088	33
## 7734	-10.8602	0	10.8602	34
## 7735	10.7939	0	10.7939	35
## 7736	10.5855	0	10.5855	36
## 7737	-10.3346	0	10.3346	37
## 7738	10.2364	0	10.2364	38
## 7739	-10.1202	0	10.1202	39
## 7740	10.0766	0	10.0766	40
## 7741	-9.8362	0	9.8362	41
## 7742	9.4907	0	9.4907	42

## 7743	-9.2456	0	9.2456	43
## 7744	9.1159	0	9.1159	44
## 7745	-9.1069	0	9.1069	45
## 7746	8.8747	0	8.8747	46
## 7747	-8.4532	0	8.4532	47
## 7748	-8.3660	0	8.3660	48
## 7749	8.2872	0	8.2872	49
## 7750	-8.0128	0	8.0128	50
## 7751	7.9230	0	7.9230	51
## 7752	7.5318	0	7.5318	52
## 7753	7.4493	0	7.4493	53
## 7754	-7.2294	0	7.2294	54
## 7755	7.0321	0	7.0321	55
## 7756	-6.9117	0	6.9117	56
## 7757	-6.7932	0	6.7932	57
## 7758	6.7122	0	6.7122	58
## 7759	6.5009	0	6.5009	59
## 7760	-6.2515	0	6.2515	60
## 7761	6.1458	0	6.1458	61
## 7762	-5.9648	0	5.9648	62
## 7763	-5.6477	0	5.6477	63
## 7764	5.6247	0	5.6247	64
## 7765	-5.5516	0	5.5516	65
## 7766	5.4925	0	5.4925	66
## 7767	5.2665	0	5.2665	67
## 7768	-4.8706	0	4.8706	68
## 7769	4.8560	0	4.8560	69
## 7770	-4.5475	0	4.5475	70
## 7771	4.5464	0	4.5464	71
## 7772	4.2819	0	4.2819	72
## 7773	-4.2594	0	4.2594	73
## 7774	4.0482	0	4.0482	74
## 7775	-3.8894	0	3.8894	75
## 7776	3.8259	0	3.8259	76
## 7777	3.5589	0	3.5589	77
## 7778	-3.5406	0	3.5406	78
## 7779	-3.2128	0	3.2128	79
## 7780	-3.0610	0	3.0610	80
## 7781	3.0587	0	3.0587	81
## 7782	-2.8409	0	2.8409	82
## 7783	2.7323	0	2.7323	83
## 7784	-2.7271	0	2.7271	84
## 7785	2.5153	0	2.5153	85
## 7786	-2.1397	0	2.1397	86
## 7787	2.0707	0	2.0707	87
## 7788	-1.8597	0	1.8597	88
## 7789	1.6778	0	1.6778	89
## 7790	-1.4594	0	1.4594	90
## 7791	1.3584	0	1.3584	91
## 7792	-1.3167	0	1.3167	92
## 7793	1.1973	0	1.1973	93
## 7794	-1.1604	0	1.1604	94
## 7795	0.9115	0	0.9115	95
## 7796	-0.7285	0	0.7285	96

## 7797	0.5214	0	0.5214	97
## 7798	-0.5062	0	0.5062	98
## 7799	-0.2260	0	0.2260	99
## 7800	0.1827	0	0.1827	100
## 7801	-20.0993	0	20.0993	1
## 7802	19.6927	0	19.6927	2
## 7803	18.4542	0	18.4542	3
## 7804	-18.3167	0	18.3167	4
## 7805	17.8728	0	17.8728	5
## 7806	-17.4060	0	17.4060	6
## 7807	16.9837	0	16.9837	7
## 7808	-16.7879	0	16.7879	8
## 7809	16.2228	0	16.2228	9
## 7810	-16.1841	0	16.1841	10
## 7811	-15.9248	0	15.9248	11
## 7812	15.8325	0	15.8325	12
## 7813	15.2610	0	15.2610	13
## 7814	-15.1652	0	15.1652	14
## 7815	15.0351	0	15.0351	15
## 7816	-14.6960	0	14.6960	16
## 7817	14.4469	0	14.4469	17
## 7818	-14.1760	0	14.1760	18
## 7819	14.0790	0	14.0790	19
## 7820	-13.7141	0	13.7141	20
## 7821	13.5866	0	13.5866	21
## 7822	13.1878	0	13.1878	22
## 7823	-13.1308	0	13.1308	23
## 7824	-12.8904	0	12.8904	24
## 7825	12.6466	0	12.6466	25
## 7826	-12.4661	0	12.4661	26
## 7827	12.3245	0	12.3245	27
## 7828	12.0181	0	12.0181	28
## 7829	-11.8548	0	11.8548	29
## 7830	-11.5102	0	11.5102	30
## 7831	11.4023	0	11.4023	31
## 7832	11.2756	0	11.2756	32
## 7833	-11.2567	0	11.2567	33
## 7834	-11.0451	0	11.0451	34
## 7835	10.7172	0	10.7172	35
## 7836	-10.5108	0	10.5108	36
## 7837	-10.4098	0	10.4098	37
## 7838	10.3974	0	10.3974	38
## 7839	10.0920	0	10.0920	39
## 7840	-9.9320	0	9.9320	40
## 7841	-9.7961	0	9.7961	41
## 7842	9.6512	0	9.6512	42
## 7843	-9.3538	0	9.3538	43
## 7844	-9.1359	0	9.1359	44
## 7845	9.0595	0	9.0595	45
## 7846	8.6245	0	8.6245	46
## 7847	-8.5138	0	8.5138	47
## 7848	8.3559	0	8.3559	48
## 7849	-8.2382	0	8.2382	49
## 7850	8.0051	0	8.0051	50

## 7851	-7.8715	0	7.8715	51
## 7852	7.7356	0	7.7356	52
## 7853	-7.5481	0	7.5481	53
## 7854	7.3046	0	7.3046	54
## 7855	-7.1270	0	7.1270	55
## 7856	7.0046	0	7.0046	56
## 7857	-6.9328	0	6.9328	57
## 7858	-6.7074	0	6.7074	58
## 7859	6.7058	0	6.7058	59
## 7860	6.4222	0	6.4222	60
## 7861	-6.3708	0	6.3708	61
## 7862	6.0653	0	6.0653	62
## 7863	-6.0370	0	6.0370	63
## 7864	5.8476	0	5.8476	64
## 7865	-5.6512	0	5.6512	65
## 7866	5.5866	0	5.5866	66
## 7867	-5.3069	0	5.3069	67
## 7868	5.2555	0	5.2555	68
## 7869	-5.1623	0	5.1623	69
## 7870	5.0099	0	5.0099	70
## 7871	-4.8719	0	4.8719	71
## 7872	4.7866	0	4.7866	72
## 7873	-4.6700	0	4.6700	73
## 7874	4.1767	0	4.1767	74
## 7875	-4.1121	0	4.1121	75
## 7876	3.8880	0	3.8880	76
## 7877	-3.7339	0	3.7339	77
## 7878	3.6132	0	3.6132	78
## 7879	3.3897	0	3.3897	79
## 7880	-3.3206	0	3.3206	80
## 7881	3.0541	0	3.0541	81
## 7882	-2.9430	0	2.9430	82
## 7883	2.7996	0	2.7996	83
## 7884	-2.7152	0	2.7152	84
## 7885	-2.4582	0	2.4582	85
## 7886	2.1682	0	2.1682	86
## 7887	-2.1001	0	2.1001	87
## 7888	1.8420	0	1.8420	88
## 7889	-1.8378	0	1.8378	89
## 7890	1.5521	0	1.5521	90
## 7891	-1.4655	0	1.4655	91
## 7892	1.2952	0	1.2952	92
## 7893	-1.1733	0	1.1733	93
## 7894	-1.0625	0	1.0625	94
## 7895	0.9951	0	0.9951	95
## 7896	-0.7198	0	0.7198	96
## 7897	0.6233	0	0.6233	97
## 7898	0.3853	0	0.3853	98
## 7899	-0.2730	0	0.2730	99
## 7900	0.1637	0	0.1637	100
## 7901	-19.3484	0	19.3484	1
## 7902	18.5989	0	18.5989	2
## 7903	-18.1336	0	18.1336	3
## 7904	17.9710	0	17.9710	4

##	7905	-17.7708	0	17.7708	5
##	7906	17.4173	0	17.4173	6
##	7907	-16.9717	0	16.9717	7
##	7908	16.5140	0	16.5140	8
##	7909	-16.1860	0	16.1860	9
##	7910	16.1171	0	16.1171	10
##	7911	-15.9628	0	15.9628	11
##	7912	15.6792	0	15.6792	12
##	7913	-15.5882	0	15.5882	13
##	7914	15.3045	0	15.3045	14
##	7915	-15.0015	0	15.0015	15
##	7916	14.8318	0	14.8318	16
##	7917	-14.6359	0	14.6359	17
##	7918	14.2499	0	14.2499	18
##	7919	-14.1911	0	14.1911	19
##	7920	-13.7759	0	13.7759	20
##	7921	13.6111	0	13.6111	21
##	7922	-13.4305	0	13.4305	22
##	7923	13.2053	0	13.2053	23
##	7924	-13.1198	0	13.1198	24
##	7925	12.8349	0	12.8349	25
##	7926	12.5401	0	12.5401	26
##	7927	12.0850	0	12.0850	27
##	7928	-12.0389	0	12.0389	28
##	7929	11.8432	0	11.8432	29
##	7930	-11.8085	0	11.8085	30
##	7931	11.5232	0	11.5232	31
##	7932	-11.5227	0	11.5227	32
##	7933	-11.2912	0	11.2912	33
##	7934	10.8478	0	10.8478	34
##	7935	-10.7203	0	10.7203	35
##	7936	10.5769	0	10.5769	36
##	7937	-10.5377	0	10.5377	37
##	7938	10.2027	0	10.2027	38
##	7939	9.8156	0	9.8156	39
##	7940	-9.7369	0	9.7369	40
##	7941	-9.5351	0	9.5351	41
##	7942	9.5017	0	9.5017	42
##	7943	-9.4048	0	9.4048	43
##	7944	9.0297	0	9.0297	44
##	7945	-8.8892	0	8.8892	45
##	7946	8.7234	0	8.7234	46
##	7947	-8.5960	0	8.5960	47
##	7948	-8.4074	0	8.4074	48
##	7949	8.2785	0	8.2785	49
##	7950	8.0559	0	8.0559	50
##	7951	-7.9547	0	7.9547	51
##	7952	-7.7383	0	7.7383	52
##	7953	7.5466	0	7.5466	53
##	7954	-7.4475	0	7.4475	54
##	7955	7.3472	0	7.3472	55
##	7956	7.0856	0	7.0856	56
##	7957	-6.9414	0	6.9414	57
##	7958	6.7886	0	6.7886	58

## 7959	6.5811	0	6.5811	59
## 7960	-6.5553	0	6.5553	60
## 7961	-6.4382	0	6.4382	61
## 7962	-6.3075	0	6.3075	62
## 7963	6.0168	0	6.0168	63
## 7964	5.8405	0	5.8405	64
## 7965	-5.7131	0	5.7131	65
## 7966	5.4593	0	5.4593	66
## 7967	-5.0695	0	5.0695	67
## 7968	5.0628	0	5.0628	68
## 7969	-5.0423	0	5.0423	69
## 7970	-4.7907	0	4.7907	70
## 7971	4.7374	0	4.7374	71
## 7972	4.6362	0	4.6362	72
## 7973	-4.3337	0	4.3337	73
## 7974	4.1020	0	4.1020	74
## 7975	-3.9893	0	3.9893	75
## 7976	3.8841	0	3.8841	76
## 7977	-3.7274	0	3.7274	77
## 7978	-3.5959	0	3.5959	78
## 7979	3.5912	0	3.5912	79
## 7980	3.3265	0	3.3265	80
## 7981	-3.0818	0	3.0818	81
## 7982	3.0019	0	3.0019	82
## 7983	-2.6930	0	2.6930	83
## 7984	2.5468	0	2.5468	84
## 7985	-2.2851	0	2.2851	85
## 7986	2.2348	0	2.2348	86
## 7987	-2.1434	0	2.1434	87
## 7988	1.9148	0	1.9148	88
## 7989	1.7909	0	1.7909	89
## 7990	-1.6282	0	1.6282	90
## 7991	-1.5070	0	1.5070	91
## 7992	1.2853	0	1.2853	92
## 7993	-1.0722	0	1.0722	93
## 7994	0.9998	0	0.9998	94
## 7995	-0.7529	0	0.7529	95
## 7996	-0.5706	0	0.5706	96
## 7997	0.5693	0	0.5693	97
## 7998	-0.4910	0	0.4910	98
## 7999	0.1050	0	0.1050	99
## 8000	-0.0224	0	0.0224	100
## 8001	19.6254	0	19.6254	1
## 8002	-18.7409	0	18.7409	2
## 8003	-17.9509	0	17.9509	3
## 8004	17.9427	0	17.9427	4
## 8005	17.4623	0	17.4623	5
## 8006	-16.7732	0	16.7732	6
## 8007	-16.6389	0	16.6389	7
## 8008	16.5117	0	16.5117	8
## 8009	-16.0593	0	16.0593	9
## 8010	15.9622	0	15.9622	10
## 8011	-15.6630	0	15.6630	11
## 8012	15.4615	0	15.4615	12

## 8013	-15.0372	0	15.0372	13
## 8014	14.7979	0	14.7979	14
## 8015	-14.7966	0	14.7966	15
## 8016	-14.3967	0	14.3967	16
## 8017	14.3445	0	14.3445	17
## 8018	13.8301	0	13.8301	18
## 8019	-13.7584	0	13.7584	19
## 8020	13.5765	0	13.5765	20
## 8021	-13.4819	0	13.4819	21
## 8022	13.1456	0	13.1456	22
## 8023	-13.0948	0	13.0948	23
## 8024	12.9683	0	12.9683	24
## 8025	12.4893	0	12.4893	25
## 8026	-12.4438	0	12.4438	26
## 8027	-11.9790	0	11.9790	27
## 8028	11.9765	0	11.9765	28
## 8029	11.7759	0	11.7759	29
## 8030	-11.7342	0	11.7342	30
## 8031	11.5441	0	11.5441	31
## 8032	-11.5011	0	11.5011	32
## 8033	11.0057	0	11.0057	33
## 8034	-10.9758	0	10.9758	34
## 8035	10.6653	0	10.6653	35
## 8036	-10.5496	0	10.5496	36
## 8037	10.1686	0	10.1686	37
## 8038	-9.9386	0	9.9386	38
## 8039	9.9220	0	9.9220	39
## 8040	-9.7911	0	9.7911	40
## 8041	9.5888	0	9.5888	41
## 8042	-9.3657	0	9.3657	42
## 8043	9.2285	0	9.2285	43
## 8044	-9.1573	0	9.1573	44
## 8045	8.9353	0	8.9353	45
## 8046	-8.5745	0	8.5745	46
## 8047	8.4816	0	8.4816	47
## 8048	-8.4679	0	8.4679	48
## 8049	8.1638	0	8.1638	49
## 8050	-8.0327	0	8.0327	50
## 8051	7.7696	0	7.7696	51
## 8052	7.5891	0	7.5891	52
## 8053	-7.5802	0	7.5802	53
## 8054	-7.4205	0	7.4205	54
## 8055	7.3284	0	7.3284	55
## 8056	7.1087	0	7.1087	56
## 8057	-7.0521	0	7.0521	57
## 8058	6.8013	0	6.8013	58
## 8059	-6.6788	0	6.6788	59
## 8060	6.3772	0	6.3772	60
## 8061	-6.1926	0	6.1926	61
## 8062	-6.0457	0	6.0457	62
## 8063	5.9810	0	5.9810	63
## 8064	-5.7396	0	5.7396	64
## 8065	5.6247	0	5.6247	65
## 8066	-5.3875	0	5.3875	66

## 8067	5.1739	0	5.1739	67
## 8068	-5.1508	0	5.1508	68
## 8069	4.8945	0	4.8945	69
## 8070	-4.7237	0	4.7237	70
## 8071	4.5042	0	4.5042	71
## 8072	-4.3755	0	4.3755	72
## 8073	-4.2637	0	4.2637	73
## 8074	4.1047	0	4.1047	74
## 8075	-3.9737	0	3.9737	75
## 8076	3.9285	0	3.9285	76
## 8077	3.6912	0	3.6912	77
## 8078	-3.5748	0	3.5748	78
## 8079	3.4793	0	3.4793	79
## 8080	-3.4261	0	3.4261	80
## 8081	3.1489	0	3.1489	81
## 8082	-3.0706	0	3.0706	82
## 8083	2.7537	0	2.7537	83
## 8084	-2.7428	0	2.7428	84
## 8085	-2.5221	0	2.5221	85
## 8086	2.3575	0	2.3575	86
## 8087	2.2631	0	2.2631	87
## 8088	-2.1947	0	2.1947	88
## 8089	1.9384	0	1.9384	89
## 8090	-1.6542	0	1.6542	90
## 8091	1.5250	0	1.5250	91
## 8092	-1.3744	0	1.3744	92
## 8093	1.2390	0	1.2390	93
## 8094	-0.9989	0	0.9989	94
## 8095	0.7099	0	0.7099	95
## 8096	-0.6538	0	0.6538	96
## 8097	0.4035	0	0.4035	97
## 8098	-0.3270	0	0.3270	98
## 8099	0.2475	0	0.2475	99
## 8100	-0.0136	0	0.0136	100
## 8101	19.5811	0	19.5811	1
## 8102	18.6186	0	18.6186	2
## 8103	-18.1997	0	18.1997	3
## 8104	-17.7386	0	17.7386	4
## 8105	17.4087	0	17.4087	5
## 8106	-17.2013	0	17.2013	6
## 8107	16.9341	0	16.9341	7
## 8108	-16.5857	0	16.5857	8
## 8109	16.0956	0	16.0956	9
## 8110	15.8336	0	15.8336	10
## 8111	-15.7720	0	15.7720	11
## 8112	-15.6633	0	15.6633	12
## 8113	15.3790	0	15.3790	13
## 8114	-14.9778	0	14.9778	14
## 8115	14.7393	0	14.7393	15
## 8116	-14.7061	0	14.7061	16
## 8117	-14.3002	0	14.3002	17
## 8118	14.0435	0	14.0435	18
## 8119	13.9429	0	13.9429	19
## 8120	-13.7531	0	13.7531	20

## 8121	-13.5364	0	13.5364	21
## 8122	13.3611	0	13.3611	22
## 8123	13.0566	0	13.0566	23
## 8124	12.8874	0	12.8874	24
## 8125	-12.7963	0	12.7963	25
## 8126	-12.4888	0	12.4888	26
## 8127	12.4286	0	12.4286	27
## 8128	-12.1185	0	12.1185	28
## 8129	11.8603	0	11.8603	29
## 8130	-11.7888	0	11.7888	30
## 8131	11.3428	0	11.3428	31
## 8132	-11.3153	0	11.3153	32
## 8133	11.2238	0	11.2238	33
## 8134	-10.9157	0	10.9157	34
## 8135	10.7274	0	10.7274	35
## 8136	10.5683	0	10.5683	36
## 8137	-10.3214	0	10.3214	37
## 8138	10.2756	0	10.2756	38
## 8139	-10.1648	0	10.1648	39
## 8140	9.8105	0	9.8105	40
## 8141	-9.7022	0	9.7022	41
## 8142	9.6710	0	9.6710	42
## 8143	-9.4694	0	9.4694	43
## 8144	-9.3474	0	9.3474	44
## 8145	9.1032	0	9.1032	45
## 8146	-8.8597	0	8.8597	46
## 8147	8.4715	0	8.4715	47
## 8148	-8.3566	0	8.3566	48
## 8149	8.2552	0	8.2552	49
## 8150	8.0519	0	8.0519	50
## 8151	7.8785	0	7.8785	51
## 8152	-7.7823	0	7.7823	52
## 8153	-7.6083	0	7.6083	53
## 8154	7.3485	0	7.3485	54
## 8155	7.1139	0	7.1139	55
## 8156	-7.0975	0	7.0975	56
## 8157	-6.7264	0	6.7264	57
## 8158	6.7104	0	6.7104	58
## 8159	6.3741	0	6.3741	59
## 8160	-6.3733	0	6.3733	60
## 8161	-6.3245	0	6.3245	61
## 8162	-6.0791	0	6.0791	62
## 8163	5.9920	0	5.9920	63
## 8164	-5.7037	0	5.7037	64
## 8165	5.6821	0	5.6821	65
## 8166	-5.3459	0	5.3459	66
## 8167	5.2823	0	5.2823	67
## 8168	-5.2281	0	5.2281	68
## 8169	4.8738	0	4.8738	69
## 8170	-4.7729	0	4.7729	70
## 8171	4.5328	0	4.5328	71
## 8172	-4.4940	0	4.4940	72
## 8173	4.2531	0	4.2531	73
## 8174	-4.2108	0	4.2108	74

## 8175	-4.0113	0	4.0113	75
## 8176	3.9901	0	3.9901	76
## 8177	3.7781	0	3.7781	77
## 8178	-3.6255	0	3.6255	78
## 8179	3.3176	0	3.3176	79
## 8180	-3.1875	0	3.1875	80
## 8181	3.0846	0	3.0846	81
## 8182	2.8514	0	2.8514	82
## 8183	-2.7522	0	2.7522	83
## 8184	-2.5582	0	2.5582	84
## 8185	2.4565	0	2.4565	85
## 8186	-2.3546	0	2.3546	86
## 8187	2.2512	0	2.2512	87
## 8188	-1.9761	0	1.9761	88
## 8189	1.7232	0	1.7232	89
## 8190	-1.7220	0	1.7220	90
## 8191	1.5485	0	1.5485	91
## 8192	-1.2194	0	1.2194	92
## 8193	1.1913	0	1.1913	93
## 8194	1.0685	0	1.0685	94
## 8195	-0.8193	0	0.8193	95
## 8196	-0.7095	0	0.7095	96
## 8197	-0.4745	0	0.4745	97
## 8198	0.3488	0	0.3488	98
## 8199	0.2735	0	0.2735	99
## 8200	-0.1492	0	0.1492	100
## 8201	-18.9473	0	18.9473	1
## 8202	18.9195	0	18.9195	2
## 8203	18.3272	0	18.3272	3
## 8204	-17.9243	0	17.9243	4
## 8205	-17.4243	0	17.4243	5
## 8206	17.4229	0	17.4229	6
## 8207	-16.7928	0	16.7928	7
## 8208	16.7399	0	16.7399	8
## 8209	-16.2502	0	16.2502	9
## 8210	16.2381	0	16.2381	10
## 8211	-15.9448	0	15.9448	11
## 8212	15.8043	0	15.8043	12
## 8213	-15.6415	0	15.6415	13
## 8214	15.4197	0	15.4197	14
## 8215	-15.3614	0	15.3614	15
## 8216	14.8952	0	14.8952	16
## 8217	-14.6028	0	14.6028	17
## 8218	14.5296	0	14.5296	18
## 8219	14.1352	0	14.1352	19
## 8220	-14.0568	0	14.0568	20
## 8221	13.6428	0	13.6428	21
## 8222	-13.5369	0	13.5369	22
## 8223	13.3132	0	13.3132	23
## 8224	-12.9264	0	12.9264	24
## 8225	12.8841	0	12.8841	25
## 8226	-12.7360	0	12.7360	26
## 8227	12.2688	0	12.2688	27
## 8228	-12.1743	0	12.1743	28

##	8229	12.1725	0	12.1725	29
##	8230	-11.8703	0	11.8703	30
##	8231	11.6939	0	11.6939	31
##	8232	-11.4892	0	11.4892	32
##	8233	11.3267	0	11.3267	33
##	8234	10.8800	0	10.8800	34
##	8235	-10.8270	0	10.8270	35
##	8236	10.5363	0	10.5363	36
##	8237	-10.3534	0	10.3534	37
##	8238	10.2722	0	10.2722	38
##	8239	-9.8332	0	9.8332	39
##	8240	9.7932	0	9.7932	40
##	8241	-9.5989	0	9.5989	41
##	8242	9.5556	0	9.5556	42
##	8243	9.2200	0	9.2200	43
##	8244	-9.1419	0	9.1419	44
##	8245	-8.8982	0	8.8982	45
##	8246	8.8939	0	8.8939	46
##	8247	-8.7868	0	8.7868	47
##	8248	8.5979	0	8.5979	48
##	8249	-8.1460	0	8.1460	49
##	8250	-8.0773	0	8.0773	50
##	8251	7.9702	0	7.9702	51
##	8252	7.6791	0	7.6791	52
##	8253	-7.6211	0	7.6211	53
##	8254	-7.5335	0	7.5335	54
##	8255	7.5208	0	7.5208	55
##	8256	7.2126	0	7.2126	56
##	8257	-7.1352	0	7.1352	57
##	8258	-6.9091	0	6.9091	58
##	8259	6.7166	0	6.7166	59
##	8260	-6.5896	0	6.5896	60
##	8261	6.3764	0	6.3764	61
##	8262	6.1381	0	6.1381	62
##	8263	-6.0824	0	6.0824	63
##	8264	-5.8342	0	5.8342	64
##	8265	5.6231	0	5.6231	65
##	8266	5.5115	0	5.5115	66
##	8267	-5.4687	0	5.4687	67
##	8268	-5.2076	0	5.2076	68
##	8269	5.0576	0	5.0576	69
##	8270	-4.8365	0	4.8365	70
##	8271	4.6847	0	4.6847	71
##	8272	-4.6072	0	4.6072	72
##	8273	4.4831	0	4.4831	73
##	8274	-4.2851	0	4.2851	74
##	8275	-4.0990	0	4.0990	75
##	8276	3.9290	0	3.9290	76
##	8277	-3.7474	0	3.7474	77
##	8278	3.7209	0	3.7209	78
##	8279	-3.5349	0	3.5349	79
##	8280	-3.3247	0	3.3247	80
##	8281	3.3130	0	3.3130	81
##	8282	3.0131	0	3.0131	82

## 8283	2.6803	0	2.6803	83
## 8284	-2.6783	0	2.6783	84
## 8285	2.3088	0	2.3088	85
## 8286	-2.2690	0	2.2690	86
## 8287	2.0517	0	2.0517	87
## 8288	-1.9971	0	1.9971	88
## 8289	1.8892	0	1.8892	89
## 8290	1.7035	0	1.7035	90
## 8291	-1.6556	0	1.6556	91
## 8292	-1.4363	0	1.4363	92
## 8293	-1.3444	0	1.3444	93
## 8294	1.3013	0	1.3013	94
## 8295	1.0661	0	1.0661	95
## 8296	-0.7427	0	0.7427	96
## 8297	0.6194	0	0.6194	97
## 8298	0.4190	0	0.4190	98
## 8299	-0.3227	0	0.3227	99
## 8300	-0.0149	0	0.0149	100
## 8301	19.1350	0	19.1350	1
## 8302	-19.0088	0	19.0088	2
## 8303	18.3585	0	18.3585	3
## 8304	-18.2070	0	18.2070	4
## 8305	-17.5750	0	17.5750	5
## 8306	17.3530	0	17.3530	6
## 8307	16.8953	0	16.8953	7
## 8308	-16.8915	0	16.8915	8
## 8309	16.1846	0	16.1846	9
## 8310	-15.9516	0	15.9516	10
## 8311	15.9443	0	15.9443	11
## 8312	-15.7393	0	15.7393	12
## 8313	-15.3197	0	15.3197	13
## 8314	-15.0987	0	15.0987	14
## 8315	15.0170	0	15.0170	15
## 8316	14.7491	0	14.7491	16
## 8317	-14.2501	0	14.2501	17
## 8318	14.2139	0	14.2139	18
## 8319	13.8899	0	13.8899	19
## 8320	-13.6366	0	13.6366	20
## 8321	13.4566	0	13.4566	21
## 8322	-13.3813	0	13.3813	22
## 8323	-13.1356	0	13.1356	23
## 8324	13.1227	0	13.1227	24
## 8325	13.0318	0	13.0318	25
## 8326	-12.5412	0	12.5412	26
## 8327	12.1918	0	12.1918	27
## 8328	-12.0037	0	12.0037	28
## 8329	11.9732	0	11.9732	29
## 8330	-11.9109	0	11.9109	30
## 8331	11.5751	0	11.5751	31
## 8332	11.2632	0	11.2632	32
## 8333	-11.1775	0	11.1775	33
## 8334	-10.9001	0	10.9001	34
## 8335	-10.6545	0	10.6545	35
## 8336	10.6436	0	10.6436	36

## 8337	10.5721	0	10.5721	37
## 8338	-10.1987	0	10.1987	38
## 8339	10.1699	0	10.1699	39
## 8340	9.7644	0	9.7644	40
## 8341	-9.6085	0	9.6085	41
## 8342	-9.3517	0	9.3517	42
## 8343	9.3106	0	9.3106	43
## 8344	8.9385	0	8.9385	44
## 8345	-8.9149	0	8.9149	45
## 8346	-8.4883	0	8.4883	46
## 8347	8.2046	0	8.2046	47
## 8348	-8.1741	0	8.1741	48
## 8349	7.9391	0	7.9391	49
## 8350	-7.8822	0	7.8822	50
## 8351	-7.7574	0	7.7574	51
## 8352	7.6798	0	7.6798	52
## 8353	-7.4990	0	7.4990	53
## 8354	7.3500	0	7.3500	54
## 8355	-7.1609	0	7.1609	55
## 8356	7.1601	0	7.1601	56
## 8357	6.8530	0	6.8530	57
## 8358	-6.6577	0	6.6577	58
## 8359	6.5384	0	6.5384	59
## 8360	6.3669	0	6.3669	60
## 8361	-6.3017	0	6.3017	61
## 8362	6.0204	0	6.0204	62
## 8363	-5.9405	0	5.9405	63
## 8364	-5.6702	0	5.6702	64
## 8365	5.6305	0	5.6305	65
## 8366	5.3468	0	5.3468	66
## 8367	-5.3347	0	5.3347	67
## 8368	-4.9773	0	4.9773	68
## 8369	4.9067	0	4.9067	69
## 8370	4.7467	0	4.7467	70
## 8371	4.6453	0	4.6453	71
## 8372	-4.5128	0	4.5128	72
## 8373	4.4572	0	4.4572	73
## 8374	-4.2395	0	4.2395	74
## 8375	-4.0426	0	4.0426	75
## 8376	3.9649	0	3.9649	76
## 8377	-3.9245	0	3.9245	77
## 8378	-3.6857	0	3.6857	78
## 8379	3.5693	0	3.5693	79
## 8380	-3.1231	0	3.1231	80
## 8381	2.9268	0	2.9268	81
## 8382	-2.8549	0	2.8549	82
## 8383	-2.7675	0	2.7675	83
## 8384	2.7438	0	2.7438	84
## 8385	-2.6323	0	2.6323	85
## 8386	2.4130	0	2.4130	86
## 8387	2.3059	0	2.3059	87
## 8388	-2.2718	0	2.2718	88
## 8389	1.8259	0	1.8259	89
## 8390	1.6390	0	1.6390	90

##	8391	-1.6375	0	1.6375	91
##	8392	-1.4138	0	1.4138	92
##	8393	1.3950	0	1.3950	93
##	8394	-1.2683	0	1.2683	94
##	8395	-0.8639	0	0.8639	95
##	8396	0.8521	0	0.8521	96
##	8397	-0.5034	0	0.5034	97
##	8398	0.4838	0	0.4838	98
##	8399	-0.2568	0	0.2568	99
##	8400	0.1891	0	0.1891	100
##	8401	19.5232	0	19.5232	1
##	8402	-18.9770	0	18.9770	2
##	8403	18.8150	0	18.8150	3
##	8404	-17.9101	0	17.9101	4
##	8405	-17.4691	0	17.4691	5
##	8406	17.2730	0	17.2730	6
##	8407	16.6134	0	16.6134	7
##	8408	-16.5379	0	16.5379	8
##	8409	16.3441	0	16.3441	9
##	8410	-15.9380	0	15.9380	10
##	8411	15.8384	0	15.8384	11
##	8412	-15.4567	0	15.4567	12
##	8413	-15.2292	0	15.2292	13
##	8414	14.8578	0	14.8578	14
##	8415	-14.7812	0	14.7812	15
##	8416	14.7423	0	14.7423	16
##	8417	-14.6000	0	14.6000	17
##	8418	14.0884	0	14.0884	18
##	8419	-13.7209	0	13.7209	19
##	8420	13.5867	0	13.5867	20
##	8421	13.1703	0	13.1703	21
##	8422	-13.0534	0	13.0534	22
##	8423	13.0140	0	13.0140	23
##	8424	-12.7964	0	12.7964	24
##	8425	12.4140	0	12.4140	25
##	8426	-12.3002	0	12.3002	26
##	8427	-11.9930	0	11.9930	27
##	8428	11.9619	0	11.9619	28
##	8429	-11.7767	0	11.7767	29
##	8430	11.7110	0	11.7110	30
##	8431	-11.5270	0	11.5270	31
##	8432	11.2230	0	11.2230	32
##	8433	-11.1140	0	11.1140	33
##	8434	11.0284	0	11.0284	34
##	8435	10.7085	0	10.7085	35
##	8436	-10.4797	0	10.4797	36
##	8437	10.3504	0	10.3504	37
##	8438	-10.0198	0	10.0198	38
##	8439	9.7140	0	9.7140	39
##	8440	-9.6181	0	9.6181	40
##	8441	-9.3859	0	9.3859	41
##	8442	9.3742	0	9.3742	42
##	8443	9.2106	0	9.2106	43
##	8444	-9.2030	0	9.2030	44

## 8445	8.8962	0	8.8962	45
## 8446	-8.7442	0	8.7442	46
## 8447	8.6297	0	8.6297	47
## 8448	-8.3655	0	8.3655	48
## 8449	8.3262	0	8.3262	49
## 8450	-8.1630	0	8.1630	50
## 8451	8.0638	0	8.0638	51
## 8452	-7.7441	0	7.7441	52
## 8453	7.7133	0	7.7133	53
## 8454	-7.4677	0	7.4677	54
## 8455	7.2948	0	7.2948	55
## 8456	-7.2577	0	7.2577	56
## 8457	7.0721	0	7.0721	57
## 8458	-6.8840	0	6.8840	58
## 8459	-6.4878	0	6.4878	59
## 8460	6.3413	0	6.3413	60
## 8461	-6.2773	0	6.2773	61
## 8462	6.1817	0	6.1817	62
## 8463	-5.7600	0	5.7600	63
## 8464	5.7501	0	5.7501	64
## 8465	-5.4297	0	5.4297	65
## 8466	5.3416	0	5.3416	66
## 8467	-5.2307	0	5.2307	67
## 8468	5.0583	0	5.0583	68
## 8469	-4.9451	0	4.9451	69
## 8470	4.7981	0	4.7981	70
## 8471	-4.4738	0	4.4738	71
## 8472	-4.2954	0	4.2954	72
## 8473	4.2879	0	4.2879	73
## 8474	4.1120	0	4.1120	74
## 8475	3.9509	0	3.9509	75
## 8476	-3.7592	0	3.7592	76
## 8477	3.5034	0	3.5034	77
## 8478	-3.5019	0	3.5019	78
## 8479	3.2521	0	3.2521	79
## 8480	-3.1843	0	3.1843	80
## 8481	-3.0659	0	3.0659	81
## 8482	3.0248	0	3.0248	82
## 8483	2.7745	0	2.7745	83
## 8484	-2.5545	0	2.5545	84
## 8485	2.4419	0	2.4419	85
## 8486	-2.1578	0	2.1578	86
## 8487	2.1120	0	2.1120	87
## 8488	1.8892	0	1.8892	88
## 8489	-1.8473	0	1.8473	89
## 8490	-1.5766	0	1.5766	90
## 8491	1.4948	0	1.4948	91
## 8492	-1.0282	0	1.0282	92
## 8493	0.9723	0	0.9723	93
## 8494	-0.9387	0	0.9387	94
## 8495	0.9057	0	0.9057	95
## 8496	-0.5409	0	0.5409	96
## 8497	0.4697	0	0.4697	97
## 8498	-0.3653	0	0.3653	98

##	8499	-0.2364	0	0.2364	99
##	8500	0.2163	0	0.2163	100
##	8501	-19.1947	0	19.1947	1
##	8502	19.1863	0	19.1863	2
##	8503	18.7392	0	18.7392	3
##	8504	-18.6532	0	18.6532	4
##	8505	-17.9161	0	17.9161	5
##	8506	17.7725	0	17.7725	6
##	8507	-17.2482	0	17.2482	7
##	8508	17.0308	0	17.0308	8
##	8509	-16.7831	0	16.7831	9
##	8510	-16.4595	0	16.4595	10
##	8511	16.3929	0	16.3929	11
##	8512	15.6731	0	15.6731	12
##	8513	-15.3230	0	15.3230	13
##	8514	15.1228	0	15.1228	14
##	8515	-14.7830	0	14.7830	15
##	8516	14.6071	0	14.6071	16
##	8517	-14.5937	0	14.5937	17
##	8518	14.3655	0	14.3655	18
##	8519	-13.9511	0	13.9511	19
##	8520	13.8507	0	13.8507	20
##	8521	13.5796	0	13.5796	21
##	8522	-13.4370	0	13.4370	22
##	8523	-13.1456	0	13.1456	23
##	8524	13.1322	0	13.1322	24
##	8525	12.8834	0	12.8834	25
##	8526	-12.5715	0	12.5715	26
##	8527	-12.2792	0	12.2792	27
##	8528	12.1654	0	12.1654	28
##	8529	11.8841	0	11.8841	29
##	8530	-11.8727	0	11.8727	30
##	8531	11.5804	0	11.5804	31
##	8532	-11.5700	0	11.5700	32
##	8533	11.0887	0	11.0887	33
##	8534	-10.9355	0	10.9355	34
##	8535	10.7253	0	10.7253	35
##	8536	-10.6703	0	10.6703	36
##	8537	10.3767	0	10.3767	37
##	8538	-10.3249	0	10.3249	38
##	8539	-10.3020	0	10.3020	39
##	8540	10.0863	0	10.0863	40
##	8541	-9.7659	0	9.7659	41
##	8542	9.6109	0	9.6109	42
##	8543	-9.5500	0	9.5500	43
##	8544	9.4111	0	9.4111	44
##	8545	9.1797	0	9.1797	45
##	8546	-8.9283	0	8.9283	46
##	8547	-8.5774	0	8.5774	47
##	8548	8.4146	0	8.4146	48
##	8549	-8.1892	0	8.1892	49
##	8550	8.1701	0	8.1701	50
##	8551	-8.0070	0	8.0070	51
##	8552	7.9749	0	7.9749	52

## 8553	7.7842	0	7.7842	53
## 8554	-7.5803	0	7.5803	54
## 8555	-7.4397	0	7.4397	55
## 8556	7.2690	0	7.2690	56
## 8557	6.8160	0	6.8160	57
## 8558	-6.7970	0	6.7970	58
## 8559	6.6249	0	6.6249	59
## 8560	-6.5182	0	6.5182	60
## 8561	-6.2249	0	6.2249	61
## 8562	6.1416	0	6.1416	62
## 8563	-6.0544	0	6.0544	63
## 8564	5.7826	0	5.7826	64
## 8565	-5.6090	0	5.6090	65
## 8566	5.4311	0	5.4311	66
## 8567	5.3547	0	5.3547	67
## 8568	-5.3010	0	5.3010	68
## 8569	-5.0609	0	5.0609	69
## 8570	4.9818	0	4.9818	70
## 8571	-4.7366	0	4.7366	71
## 8572	4.6433	0	4.6433	72
## 8573	-4.6201	0	4.6201	73
## 8574	4.4124	0	4.4124	74
## 8575	-4.0248	0	4.0248	75
## 8576	4.0027	0	4.0027	76
## 8577	-3.7975	0	3.7975	77
## 8578	3.5927	0	3.5927	78
## 8579	3.4239	0	3.4239	79
## 8580	-3.2578	0	3.2578	80
## 8581	-3.1398	0	3.1398	81
## 8582	3.0398	0	3.0398	82
## 8583	-2.7709	0	2.7709	83
## 8584	2.7558	0	2.7558	84
## 8585	-2.6055	0	2.6055	85
## 8586	2.5598	0	2.5598	86
## 8587	2.3314	0	2.3314	87
## 8588	1.9236	0	1.9236	88
## 8589	-1.9083	0	1.9083	89
## 8590	-1.6651	0	1.6651	90
## 8591	-1.4574	0	1.4574	91
## 8592	1.3873	0	1.3873	92
## 8593	-1.0940	0	1.0940	93
## 8594	1.0577	0	1.0577	94
## 8595	0.8672	0	0.8672	95
## 8596	-0.8365	0	0.8365	96
## 8597	0.6964	0	0.6964	97
## 8598	-0.6436	0	0.6436	98
## 8599	0.3785	0	0.3785	99
## 8600	-0.1340	0	0.1340	100
## 8601	19.0709	0	19.0709	1
## 8602	-19.0694	0	19.0694	2
## 8603	-18.1102	0	18.1102	3
## 8604	18.0643	0	18.0643	4
## 8605	-17.7657	0	17.7657	5
## 8606	17.7432	0	17.7432	6

## 8607	17.1933	0	17.1933	7
## 8608	-17.0381	0	17.0381	8
## 8609	-16.5529	0	16.5529	9
## 8610	16.5394	0	16.5394	10
## 8611	15.8098	0	15.8098	11
## 8612	-15.7161	0	15.7161	12
## 8613	-15.3413	0	15.3413	13
## 8614	15.0424	0	15.0424	14
## 8615	14.9284	0	14.9284	15
## 8616	-14.8997	0	14.8997	16
## 8617	14.5836	0	14.5836	17
## 8618	-14.5541	0	14.5541	18
## 8619	14.2532	0	14.2532	19
## 8620	-14.2085	0	14.2085	20
## 8621	-13.8137	0	13.8137	21
## 8622	-13.3774	0	13.3774	22
## 8623	13.3737	0	13.3737	23
## 8624	13.1120	0	13.1120	24
## 8625	-12.6516	0	12.6516	25
## 8626	12.5166	0	12.5166	26
## 8627	12.1964	0	12.1964	27
## 8628	-12.1380	0	12.1380	28
## 8629	11.9183	0	11.9183	29
## 8630	-11.8952	0	11.8952	30
## 8631	11.7389	0	11.7389	31
## 8632	-11.5386	0	11.5386	32
## 8633	11.3870	0	11.3870	33
## 8634	-11.1288	0	11.1288	34
## 8635	10.7674	0	10.7674	35
## 8636	-10.6013	0	10.6013	36
## 8637	10.3589	0	10.3589	37
## 8638	-10.2195	0	10.2195	38
## 8639	9.9612	0	9.9612	39
## 8640	-9.7894	0	9.7894	40
## 8641	9.7561	0	9.7561	41
## 8642	9.3944	0	9.3944	42
## 8643	-9.3665	0	9.3665	43
## 8644	9.1656	0	9.1656	44
## 8645	-9.0527	0	9.0527	45
## 8646	-8.7901	0	8.7901	46
## 8647	8.5625	0	8.5625	47
## 8648	8.3884	0	8.3884	48
## 8649	-8.1976	0	8.1976	49
## 8650	-7.9855	0	7.9855	50
## 8651	-7.8875	0	7.8875	51
## 8652	7.7729	0	7.7729	52
## 8653	7.5363	0	7.5363	53
## 8654	-7.5173	0	7.5173	54
## 8655	7.3849	0	7.3849	55
## 8656	-7.2967	0	7.2967	56
## 8657	-6.9153	0	6.9153	57
## 8658	6.8719	0	6.8719	58
## 8659	6.7212	0	6.7212	59
## 8660	-6.4202	0	6.4202	60

## 8661	6.2373	0	6.2373	61
## 8662	-6.0068	0	6.0068	62
## 8663	5.7891	0	5.7891	63
## 8664	-5.7179	0	5.7179	64
## 8665	5.6297	0	5.6297	65
## 8666	-5.5406	0	5.5406	66
## 8667	5.2107	0	5.2107	67
## 8668	5.0722	0	5.0722	68
## 8669	-4.9638	0	4.9638	69
## 8670	-4.8335	0	4.8335	70
## 8671	4.5206	0	4.5206	71
## 8672	-4.4608	0	4.4608	72
## 8673	4.3066	0	4.3066	73
## 8674	4.1114	0	4.1114	74
## 8675	-4.0895	0	4.0895	75
## 8676	-3.8990	0	3.8990	76
## 8677	3.5289	0	3.5289	77
## 8678	3.3630	0	3.3630	78
## 8679	-3.3445	0	3.3445	79
## 8680	-2.8840	0	2.8840	80
## 8681	2.8799	0	2.8799	81
## 8682	2.6646	0	2.6646	82
## 8683	-2.6352	0	2.6352	83
## 8684	-2.5356	0	2.5356	84
## 8685	-2.4042	0	2.4042	85
## 8686	2.3565	0	2.3565	86
## 8687	-1.9338	0	1.9338	87
## 8688	1.8713	0	1.8713	88
## 8689	1.6412	0	1.6412	89
## 8690	-1.6057	0	1.6057	90
## 8691	-1.2022	0	1.2022	91
## 8692	1.1091	0	1.1091	92
## 8693	-1.1048	0	1.1048	93
## 8694	-0.8727	0	0.8727	94
## 8695	0.8142	0	0.8142	95
## 8696	0.7293	0	0.7293	96
## 8697	-0.5964	0	0.5964	97
## 8698	0.4763	0	0.4763	98
## 8699	-0.3370	0	0.3370	99
## 8700	0.0865	0	0.0865	100
## 8701	19.2132	0	19.2132	1
## 8702	-18.8451	0	18.8451	2
## 8703	-18.3223	0	18.3223	3
## 8704	18.1624	0	18.1624	4
## 8705	-17.5959	0	17.5959	5
## 8706	17.3403	0	17.3403	6
## 8707	-17.1582	0	17.1582	7
## 8708	-16.6908	0	16.6908	8
## 8709	16.6403	0	16.6403	9
## 8710	-16.2514	0	16.2514	10
## 8711	16.1545	0	16.1545	11
## 8712	16.0508	0	16.0508	12
## 8713	15.6942	0	15.6942	13
## 8714	-15.5953	0	15.5953	14

## 8715	15.3874	0	15.3874	15
## 8716	-14.8875	0	14.8875	16
## 8717	14.7871	0	14.7871	17
## 8718	-14.6955	0	14.6955	18
## 8719	14.4154	0	14.4154	19
## 8720	14.0091	0	14.0091	20
## 8721	-13.9072	0	13.9072	21
## 8722	-13.4886	0	13.4886	22
## 8723	13.2805	0	13.2805	23
## 8724	-13.1986	0	13.1986	24
## 8725	12.9209	0	12.9209	25
## 8726	-12.6913	0	12.6913	26
## 8727	12.4882	0	12.4882	27
## 8728	-12.2484	0	12.2484	28
## 8729	12.1431	0	12.1431	29
## 8730	-11.6886	0	11.6886	30
## 8731	11.6191	0	11.6191	31
## 8732	-11.4750	0	11.4750	32
## 8733	11.3713	0	11.3713	33
## 8734	11.1859	0	11.1859	34
## 8735	-11.1177	0	11.1177	35
## 8736	-10.8262	0	10.8262	36
## 8737	10.7300	0	10.7300	37
## 8738	-10.5797	0	10.5797	38
## 8739	10.3232	0	10.3232	39
## 8740	-10.1228	0	10.1228	40
## 8741	-10.0054	0	10.0054	41
## 8742	9.9640	0	9.9640	42
## 8743	-9.6155	0	9.6155	43
## 8744	9.4239	0	9.4239	44
## 8745	-9.3160	0	9.3160	45
## 8746	9.0797	0	9.0797	46
## 8747	-8.9950	0	8.9950	47
## 8748	8.5494	0	8.5494	48
## 8749	8.4401	0	8.4401	49
## 8750	-8.2664	0	8.2664	50
## 8751	-8.1416	0	8.1416	51
## 8752	7.8975	0	7.8975	52
## 8753	-7.8403	0	7.8403	53
## 8754	7.6384	0	7.6384	54
## 8755	-7.2929	0	7.2929	55
## 8756	7.0359	0	7.0359	56
## 8757	-7.0260	0	7.0260	57
## 8758	6.9426	0	6.9426	58
## 8759	-6.8240	0	6.8240	59
## 8760	6.6024	0	6.6024	60
## 8761	-6.5313	0	6.5313	61
## 8762	6.4220	0	6.4220	62
## 8763	-6.2004	0	6.2004	63
## 8764	6.0338	0	6.0338	64
## 8765	-5.7289	0	5.7289	65
## 8766	5.5609	0	5.5609	66
## 8767	-5.4780	0	5.4780	67
## 8768	5.1869	0	5.1869	68

## 8769	4.9348	0	4.9348	69
## 8770	4.6497	0	4.6497	70
## 8771	-4.5944	0	4.5944	71
## 8772	-4.4282	0	4.4282	72
## 8773	4.2827	0	4.2827	73
## 8774	-4.2034	0	4.2034	74
## 8775	4.0269	0	4.0269	75
## 8776	-4.0041	0	4.0041	76
## 8777	-3.8716	0	3.8716	77
## 8778	3.7693	0	3.7693	78
## 8779	3.5288	0	3.5288	79
## 8780	-3.4408	0	3.4408	80
## 8781	-3.2486	0	3.2486	81
## 8782	2.9724	0	2.9724	82
## 8783	-2.8884	0	2.8884	83
## 8784	2.5790	0	2.5790	84
## 8785	-2.4906	0	2.4906	85
## 8786	2.2137	0	2.2137	86
## 8787	-2.1115	0	2.1115	87
## 8788	1.9816	0	1.9816	88
## 8789	1.7192	0	1.7192	89
## 8790	-1.6139	0	1.6139	90
## 8791	1.5366	0	1.5366	91
## 8792	-1.2917	0	1.2917	92
## 8793	1.1541	0	1.1541	93
## 8794	-0.9147	0	0.9147	94
## 8795	0.8617	0	0.8617	95
## 8796	-0.6388	0	0.6388	96
## 8797	0.5574	0	0.5574	97
## 8798	-0.5126	0	0.5126	98
## 8799	0.4541	0	0.4541	99
## 8800	-0.1391	0	0.1391	100
## 8801	-20.4228	0	20.4228	1
## 8802	19.7494	0	19.7494	2
## 8803	-19.2775	0	19.2775	3
## 8804	18.8344	0	18.8344	4
## 8805	-17.9713	0	17.9713	5
## 8806	17.6260	0	17.6260	6
## 8807	-17.2837	0	17.2837	7
## 8808	16.9070	0	16.9070	8
## 8809	16.6996	0	16.6996	9
## 8810	-16.4747	0	16.4747	10
## 8811	-15.9865	0	15.9865	11
## 8812	15.9009	0	15.9009	12
## 8813	15.6354	0	15.6354	13
## 8814	-15.2978	0	15.2978	14
## 8815	15.0393	0	15.0393	15
## 8816	-14.9752	0	14.9752	16
## 8817	14.3141	0	14.3141	17
## 8818	-14.2374	0	14.2374	18
## 8819	13.9866	0	13.9866	19
## 8820	-13.8054	0	13.8054	20
## 8821	13.6193	0	13.6193	21
## 8822	-13.5208	0	13.5208	22

## 8823	13.1503	0	13.1503	23
## 8824	-12.9594	0	12.9594	24
## 8825	12.9425	0	12.9425	25
## 8826	12.6346	0	12.6346	26
## 8827	-12.5932	0	12.5932	27
## 8828	-12.2133	0	12.2133	28
## 8829	12.1997	0	12.1997	29
## 8830	-11.8432	0	11.8432	30
## 8831	-11.7702	0	11.7702	31
## 8832	11.6902	0	11.6902	32
## 8833	-11.4268	0	11.4268	33
## 8834	11.0901	0	11.0901	34
## 8835	-11.0514	0	11.0514	35
## 8836	-10.6980	0	10.6980	36
## 8837	10.6979	0	10.6979	37
## 8838	-10.3050	0	10.3050	38
## 8839	10.2308	0	10.2308	39
## 8840	9.8496	0	9.8496	40
## 8841	-9.7575	0	9.7575	41
## 8842	9.5255	0	9.5255	42
## 8843	9.4382	0	9.4382	43
## 8844	-9.3760	0	9.3760	44
## 8845	-8.8278	0	8.8278	45
## 8846	8.7831	0	8.7831	46
## 8847	8.5525	0	8.5525	47
## 8848	-8.4909	0	8.4909	48
## 8849	8.3979	0	8.3979	49
## 8850	-8.2972	0	8.2972	50
## 8851	-7.9509	0	7.9509	51
## 8852	7.9409	0	7.9409	52
## 8853	7.7585	0	7.7585	53
## 8854	-7.7134	0	7.7134	54
## 8855	7.4841	0	7.4841	55
## 8856	-7.4640	0	7.4640	56
## 8857	7.0914	0	7.0914	57
## 8858	-7.0304	0	7.0304	58
## 8859	6.8372	0	6.8372	59
## 8860	-6.6832	0	6.6832	60
## 8861	6.3485	0	6.3485	61
## 8862	-6.2359	0	6.2359	62
## 8863	-5.9956	0	5.9956	63
## 8864	5.9808	0	5.9808	64
## 8865	-5.7352	0	5.7352	65
## 8866	5.5989	0	5.5989	66
## 8867	5.4123	0	5.4123	67
## 8868	-5.2880	0	5.2880	68
## 8869	-5.0750	0	5.0750	69
## 8870	4.9808	0	4.9808	70
## 8871	4.8796	0	4.8796	71
## 8872	-4.8788	0	4.8788	72
## 8873	-4.3626	0	4.3626	73
## 8874	-4.1262	0	4.1262	74
## 8875	4.1182	0	4.1182	75
## 8876	-3.7987	0	3.7987	76

## 8877	3.7954	0	3.7954	77
## 8878	3.5254	0	3.5254	78
## 8879	-3.4665	0	3.4665	79
## 8880	3.1190	0	3.1190	80
## 8881	-3.0905	0	3.0905	81
## 8882	2.9610	0	2.9610	82
## 8883	-2.9554	0	2.9554	83
## 8884	-2.6251	0	2.6251	84
## 8885	2.5817	0	2.5817	85
## 8886	2.3777	0	2.3777	86
## 8887	2.2641	0	2.2641	87
## 8888	-2.2484	0	2.2484	88
## 8889	-2.1730	0	2.1730	89
## 8890	-1.6780	0	1.6780	90
## 8891	1.4614	0	1.4614	91
## 8892	-1.3402	0	1.3402	92
## 8893	1.2150	0	1.2150	93
## 8894	1.1122	0	1.1122	94
## 8895	-0.9248	0	0.9248	95
## 8896	0.8096	0	0.8096	96
## 8897	0.4859	0	0.4859	97
## 8898	-0.4642	0	0.4642	98
## 8899	-0.1542	0	0.1542	99
## 8900	0.1099	0	0.1099	100
## 8901	19.8072	0	19.8072	1
## 8902	-19.7241	0	19.7241	2
## 8903	-18.4823	0	18.4823	3
## 8904	18.3086	0	18.3086	4
## 8905	17.7880	0	17.7880	5
## 8906	-17.6174	0	17.6174	6
## 8907	17.4069	0	17.4069	7
## 8908	-17.1135	0	17.1135	8
## 8909	16.5915	0	16.5915	9
## 8910	-16.3450	0	16.3450	10
## 8911	16.2107	0	16.2107	11
## 8912	15.6542	0	15.6542	12
## 8913	-15.6382	0	15.6382	13
## 8914	-15.4010	0	15.4010	14
## 8915	14.8735	0	14.8735	15
## 8916	-14.7939	0	14.7939	16
## 8917	-14.6236	0	14.6236	17
## 8918	14.5005	0	14.5005	18
## 8919	-14.0717	0	14.0717	19
## 8920	13.9180	0	13.9180	20
## 8921	13.6752	0	13.6752	21
## 8922	-13.5396	0	13.5396	22
## 8923	13.2390	0	13.2390	23
## 8924	13.0109	0	13.0109	24
## 8925	-12.8167	0	12.8167	25
## 8926	-12.5946	0	12.5946	26
## 8927	12.3988	0	12.3988	27
## 8928	-12.0943	0	12.0943	28
## 8929	12.0071	0	12.0071	29
## 8930	-11.7454	0	11.7454	30

## 8931	11.6755	0	11.6755	31
## 8932	-11.2895	0	11.2895	32
## 8933	11.2061	0	11.2061	33
## 8934	-11.0134	0	11.0134	34
## 8935	10.8725	0	10.8725	35
## 8936	-10.8168	0	10.8168	36
## 8937	-10.5859	0	10.5859	37
## 8938	10.5131	0	10.5131	38
## 8939	-10.2398	0	10.2398	39
## 8940	10.0077	0	10.0077	40
## 8941	9.7356	0	9.7356	41
## 8942	-9.7037	0	9.7037	42
## 8943	9.3700	0	9.3700	43
## 8944	-9.3586	0	9.3586	44
## 8945	8.9945	0	8.9945	45
## 8946	-8.8143	0	8.8143	46
## 8947	8.6179	0	8.6179	47
## 8948	-8.5923	0	8.5923	48
## 8949	8.3511	0	8.3511	49
## 8950	-8.1207	0	8.1207	50
## 8951	7.9945	0	7.9945	51
## 8952	-7.9599	0	7.9599	52
## 8953	7.6654	0	7.6654	53
## 8954	-7.4969	0	7.4969	54
## 8955	7.2339	0	7.2339	55
## 8956	-7.2237	0	7.2237	56
## 8957	7.0152	0	7.0152	57
## 8958	6.6371	0	6.6371	58
## 8959	-6.6370	0	6.6370	59
## 8960	-6.4429	0	6.4429	60
## 8961	-6.2828	0	6.2828	61
## 8962	6.0483	0	6.0483	62
## 8963	-6.0376	0	6.0376	63
## 8964	5.7896	0	5.7896	64
## 8965	5.7029	0	5.7029	65
## 8966	-5.2730	0	5.2730	66
## 8967	5.2713	0	5.2713	67
## 8968	-5.1581	0	5.1581	68
## 8969	-4.7908	0	4.7908	69
## 8970	4.7853	0	4.7853	70
## 8971	4.6403	0	4.6403	71
## 8972	-4.4975	0	4.4975	72
## 8973	4.4420	0	4.4420	73
## 8974	-4.2036	0	4.2036	74
## 8975	-4.0323	0	4.0323	75
## 8976	3.8628	0	3.8628	76
## 8977	3.5319	0	3.5319	77
## 8978	-3.4878	0	3.4878	78
## 8979	3.3283	0	3.3283	79
## 8980	-3.3184	0	3.3184	80
## 8981	3.0003	0	3.0003	81
## 8982	-2.9544	0	2.9544	82
## 8983	2.8360	0	2.8360	83
## 8984	-2.5544	0	2.5544	84

## 8985	2.4943	0	2.4943	85
## 8986	-2.2158	0	2.2158	86
## 8987	2.0252	0	2.0252	87
## 8988	-1.9923	0	1.9923	88
## 8989	1.8642	0	1.8642	89
## 8990	-1.8159	0	1.8159	90
## 8991	1.6619	0	1.6619	91
## 8992	1.5324	0	1.5324	92
## 8993	-1.3841	0	1.3841	93
## 8994	-1.0197	0	1.0197	94
## 8995	0.9928	0	0.9928	95
## 8996	0.8668	0	0.8668	96
## 8997	0.4893	0	0.4893	97
## 8998	-0.4034	0	0.4034	98
## 8999	0.2649	0	0.2649	99
## 9000	0.0228	0	0.0228	100
## 9001	18.9096	0	18.9096	1
## 9002	-18.7098	0	18.7098	2
## 9003	-18.1870	0	18.1870	3
## 9004	18.0111	0	18.0111	4
## 9005	17.5747	0	17.5747	5
## 9006	-17.5225	0	17.5225	6
## 9007	17.0507	0	17.0507	7
## 9008	-16.9547	0	16.9547	8
## 9009	16.4187	0	16.4187	9
## 9010	16.3204	0	16.3204	10
## 9011	-15.9629	0	15.9629	11
## 9012	-15.8105	0	15.8105	12
## 9013	15.7646	0	15.7646	13
## 9014	-15.2613	0	15.2613	14
## 9015	-15.1093	0	15.1093	15
## 9016	14.9962	0	14.9962	16
## 9017	-14.6344	0	14.6344	17
## 9018	14.5308	0	14.5308	18
## 9019	-14.2648	0	14.2648	19
## 9020	13.8917	0	13.8917	20
## 9021	-13.8091	0	13.8091	21
## 9022	13.4731	0	13.4731	22
## 9023	13.0135	0	13.0135	23
## 9024	-12.8580	0	12.8580	24
## 9025	-12.6470	0	12.6470	25
## 9026	-12.5818	0	12.5818	26
## 9027	12.3387	0	12.3387	27
## 9028	-12.0681	0	12.0681	28
## 9029	12.0431	0	12.0431	29
## 9030	11.6905	0	11.6905	30
## 9031	11.5538	0	11.5538	31
## 9032	-11.3400	0	11.3400	32
## 9033	-11.1495	0	11.1495	33
## 9034	11.0673	0	11.0673	34
## 9035	-10.7047	0	10.7047	35
## 9036	10.5905	0	10.5905	36
## 9037	-10.4488	0	10.4488	37
## 9038	10.2890	0	10.2890	38

## 9039	-10.2013	0	10.2013	39
## 9040	10.0323	0	10.0323	40
## 9041	-9.7560	0	9.7560	41
## 9042	-9.6068	0	9.6068	42
## 9043	9.4856	0	9.4856	43
## 9044	-9.2454	0	9.2454	44
## 9045	9.1040	0	9.1040	45
## 9046	8.9634	0	8.9634	46
## 9047	-8.5857	0	8.5857	47
## 9048	8.5354	0	8.5354	48
## 9049	-8.4119	0	8.4119	49
## 9050	8.2503	0	8.2503	50
## 9051	-8.0380	0	8.0380	51
## 9052	-7.9939	0	7.9939	52
## 9053	7.9351	0	7.9351	53
## 9054	7.6299	0	7.6299	54
## 9055	-7.5695	0	7.5695	55
## 9056	7.3898	0	7.3898	56
## 9057	-7.1924	0	7.1924	57
## 9058	7.0798	0	7.0798	58
## 9059	-6.9343	0	6.9343	59
## 9060	6.9319	0	6.9319	60
## 9061	-6.4713	0	6.4713	61
## 9062	6.3037	0	6.3037	62
## 9063	-6.1780	0	6.1780	63
## 9064	5.9012	0	5.9012	64
## 9065	-5.5511	0	5.5511	65
## 9066	5.4530	0	5.4530	66
## 9067	-5.2645	0	5.2645	67
## 9068	5.0718	0	5.0718	68
## 9069	-5.0707	0	5.0707	69
## 9070	-4.8300	0	4.8300	70
## 9071	4.7764	0	4.7764	71
## 9072	4.6586	0	4.6586	72
## 9073	-4.2337	0	4.2337	73
## 9074	-3.9794	0	3.9794	74
## 9075	3.9760	0	3.9760	75
## 9076	-3.7323	0	3.7323	76
## 9077	3.7007	0	3.7007	77
## 9078	-3.4700	0	3.4700	78
## 9079	3.3863	0	3.3863	79
## 9080	-3.0756	0	3.0756	80
## 9081	2.9321	0	2.9321	81
## 9082	-2.7691	0	2.7691	82
## 9083	2.7549	0	2.7549	83
## 9084	2.4554	0	2.4554	84
## 9085	-2.4383	0	2.4383	85
## 9086	-2.1102	0	2.1102	86
## 9087	1.9799	0	1.9799	87
## 9088	-1.9099	0	1.9099	88
## 9089	1.7469	0	1.7469	89
## 9090	-1.6178	0	1.6178	90
## 9091	1.4914	0	1.4914	91
## 9092	-1.2780	0	1.2780	92

## 9093	1.2230	0	1.2230	93
## 9094	-0.9024	0	0.9024	94
## 9095	0.8916	0	0.8916	95
## 9096	-0.8322	0	0.8322	96
## 9097	-0.5210	0	0.5210	97
## 9098	0.4057	0	0.4057	98
## 9099	0.2031	0	0.2031	99
## 9100	-0.0387	0	0.0387	100
## 9101	-19.5494	0	19.5494	1
## 9102	19.5227	0	19.5227	2
## 9103	-18.5119	0	18.5119	3
## 9104	18.5043	0	18.5043	4
## 9105	-17.5970	0	17.5970	5
## 9106	-17.2870	0	17.2870	6
## 9107	17.2390	0	17.2390	7
## 9108	16.6538	0	16.6538	8
## 9109	-16.6324	0	16.6324	9
## 9110	-16.3355	0	16.3355	10
## 9111	16.2516	0	16.2516	11
## 9112	-15.3966	0	15.3966	12
## 9113	15.2823	0	15.2823	13
## 9114	15.1240	0	15.1240	14
## 9115	14.9456	0	14.9456	15
## 9116	-14.8937	0	14.8937	16
## 9117	-14.5377	0	14.5377	17
## 9118	14.4696	0	14.4696	18
## 9119	-13.9253	0	13.9253	19
## 9120	-13.5474	0	13.5474	20
## 9121	13.3920	0	13.3920	21
## 9122	-13.3903	0	13.3903	22
## 9123	12.8128	0	12.8128	23
## 9124	12.7230	0	12.7230	24
## 9125	-12.6086	0	12.6086	25
## 9126	12.3738	0	12.3738	26
## 9127	-12.3348	0	12.3348	27
## 9128	12.0378	0	12.0378	28
## 9129	-11.9465	0	11.9465	29
## 9130	11.7134	0	11.7134	30
## 9131	11.5900	0	11.5900	31
## 9132	-11.4464	0	11.4464	32
## 9133	11.2357	0	11.2357	33
## 9134	-11.1117	0	11.1117	34
## 9135	-10.7009	0	10.7009	35
## 9136	10.6699	0	10.6699	36
## 9137	10.4356	0	10.4356	37
## 9138	-10.2590	0	10.2590	38
## 9139	9.8953	0	9.8953	39
## 9140	-9.8586	0	9.8586	40
## 9141	9.7349	0	9.7349	41
## 9142	-9.3251	0	9.3251	42
## 9143	9.2303	0	9.2303	43
## 9144	-8.9876	0	8.9876	44
## 9145	8.9361	0	8.9361	45
## 9146	-8.8671	0	8.8671	46

## 9147	-8.6191	0	8.6191	47
## 9148	8.4926	0	8.4926	48
## 9149	-8.1008	0	8.1008	49
## 9150	8.0007	0	8.0007	50
## 9151	7.8973	0	7.8973	51
## 9152	-7.8373	0	7.8373	52
## 9153	-7.6531	0	7.6531	53
## 9154	7.3955	0	7.3955	54
## 9155	-7.3066	0	7.3066	55
## 9156	7.1119	0	7.1119	56
## 9157	-6.9251	0	6.9251	57
## 9158	6.5947	0	6.5947	58
## 9159	6.3917	0	6.3917	59
## 9160	-6.3433	0	6.3433	60
## 9161	-6.2709	0	6.2709	61
## 9162	6.2063	0	6.2063	62
## 9163	5.9936	0	5.9936	63
## 9164	5.8774	0	5.8774	64
## 9165	-5.7027	0	5.7027	65
## 9166	-5.6004	0	5.6004	66
## 9167	-5.1882	0	5.1882	67
## 9168	5.0713	0	5.0713	68
## 9169	-5.0202	0	5.0202	69
## 9170	5.0090	0	5.0090	70
## 9171	-4.7190	0	4.7190	71
## 9172	4.4660	0	4.4660	72
## 9173	-4.2121	0	4.2121	73
## 9174	-4.0328	0	4.0328	74
## 9175	3.9966	0	3.9966	75
## 9176	3.7639	0	3.7639	76
## 9177	3.6340	0	3.6340	77
## 9178	-3.4704	0	3.4704	78
## 9179	-3.3937	0	3.3937	79
## 9180	-3.1319	0	3.1319	80
## 9181	3.0982	0	3.0982	81
## 9182	2.8855	0	2.8855	82
## 9183	-2.8238	0	2.8238	83
## 9184	2.6883	0	2.6883	84
## 9185	2.3963	0	2.3963	85
## 9186	-2.3374	0	2.3374	86
## 9187	-2.1235	0	2.1235	87
## 9188	1.9575	0	1.9575	88
## 9189	-1.7261	0	1.7261	89
## 9190	1.5895	0	1.5895	90
## 9191	1.3999	0	1.3999	91
## 9192	-1.2519	0	1.2519	92
## 9193	1.1997	0	1.1997	93
## 9194	0.9303	0	0.9303	94
## 9195	-0.8648	0	0.8648	95
## 9196	0.6622	0	0.6622	96
## 9197	-0.6571	0	0.6571	97
## 9198	-0.4005	0	0.4005	98
## 9199	0.3446	0	0.3446	99
## 9200	0.1757	0	0.1757	100

##	9201	19.2913	0	19.2913	1
##	9202	-19.2194	0	19.2194	2
##	9203	18.3851	0	18.3851	3
##	9204	-18.0312	0	18.0312	4
##	9205	-17.6681	0	17.6681	5
##	9206	17.6320	0	17.6320	6
##	9207	17.3090	0	17.3090	7
##	9208	-17.1402	0	17.1402	8
##	9209	16.5037	0	16.5037	9
##	9210	16.3398	0	16.3398	10
##	9211	-16.3291	0	16.3291	11
##	9212	-15.8977	0	15.8977	12
##	9213	15.6849	0	15.6849	13
##	9214	-15.2619	0	15.2619	14
##	9215	-14.7730	0	14.7730	15
##	9216	14.7480	0	14.7480	16
##	9217	14.5033	0	14.5033	17
##	9218	-14.3271	0	14.3271	18
##	9219	13.9954	0	13.9954	19
##	9220	-13.9534	0	13.9534	20
##	9221	-13.7729	0	13.7729	21
##	9222	13.7375	0	13.7375	22
##	9223	13.2283	0	13.2283	23
##	9224	-13.1350	0	13.1350	24
##	9225	-13.0144	0	13.0144	25
##	9226	12.8658	0	12.8658	26
##	9227	12.6062	0	12.6062	27
##	9228	-12.3698	0	12.3698	28
##	9229	12.1790	0	12.1790	29
##	9230	-11.8644	0	11.8644	30
##	9231	11.7636	0	11.7636	31
##	9232	-11.5266	0	11.5266	32
##	9233	11.4587	0	11.4587	33
##	9234	-11.4306	0	11.4306	34
##	9235	-11.0237	0	11.0237	35
##	9236	10.8896	0	10.8896	36
##	9237	10.7110	0	10.7110	37
##	9238	-10.5945	0	10.5945	38
##	9239	-10.2413	0	10.2413	39
##	9240	10.1364	0	10.1364	40
##	9241	9.8281	0	9.8281	41
##	9242	-9.7685	0	9.7685	42
##	9243	-9.4956	0	9.4956	43
##	9244	9.4253	0	9.4253	44
##	9245	-9.3510	0	9.3510	45
##	9246	9.0168	0	9.0168	46
##	9247	8.8120	0	8.8120	47
##	9248	-8.6281	0	8.6281	48
##	9249	8.3798	0	8.3798	49
##	9250	-8.3406	0	8.3406	50
##	9251	7.9441	0	7.9441	51
##	9252	-7.9230	0	7.9230	52
##	9253	7.7460	0	7.7460	53
##	9254	-7.5449	0	7.5449	54

##	9255	-7.4068	0	7.4068	55
##	9256	7.2074	0	7.2074	56
##	9257	-7.1390	0	7.1390	57
##	9258	6.9292	0	6.9292	58
##	9259	-6.9118	0	6.9118	59
##	9260	6.4966	0	6.4966	60
##	9261	-6.3309	0	6.3309	61
##	9262	-6.0966	0	6.0966	62
##	9263	6.0779	0	6.0779	63
##	9264	5.8757	0	5.8757	64
##	9265	-5.7767	0	5.7767	65
##	9266	5.5900	0	5.5900	66
##	9267	-5.3856	0	5.3856	67
##	9268	-5.2200	0	5.2200	68
##	9269	5.1869	0	5.1869	69
##	9270	4.8219	0	4.8219	70
##	9271	-4.7692	0	4.7692	71
##	9272	-4.6454	0	4.6454	72
##	9273	4.4809	0	4.4809	73
##	9274	-4.2686	0	4.2686	74
##	9275	-4.0998	0	4.0998	75
##	9276	4.0861	0	4.0861	76
##	9277	-3.6643	0	3.6643	77
##	9278	3.5888	0	3.5888	78
##	9279	3.4548	0	3.4548	79
##	9280	-3.3548	0	3.3548	80
##	9281	3.0538	0	3.0538	81
##	9282	-2.9391	0	2.9391	82
##	9283	2.8111	0	2.8111	83
##	9284	-2.6682	0	2.6682	84
##	9285	2.5031	0	2.5031	85
##	9286	-2.1794	0	2.1794	86
##	9287	1.9613	0	1.9613	87
##	9288	1.8807	0	1.8807	88
##	9289	-1.8471	0	1.8471	89
##	9290	1.5719	0	1.5719	90
##	9291	-1.5559	0	1.5559	91
##	9292	1.2089	0	1.2089	92
##	9293	-1.1517	0	1.1517	93
##	9294	-0.9485	0	0.9485	94
##	9295	0.9115	0	0.9115	95
##	9296	0.6445	0	0.6445	96
##	9297	-0.5765	0	0.5765	97
##	9298	-0.2138	0	0.2138	98
##	9299	0.1737	0	0.1737	99
##	9300	-0.0168	0	0.0168	100
##	9301	19.5250	0	19.5250	1
##	9302	-18.8257	0	18.8257	2
##	9303	18.6785	0	18.6785	3
##	9304	-17.8388	0	17.8388	4
##	9305	17.6183	0	17.6183	5
##	9306	-17.5187	0	17.5187	6
##	9307	-17.2709	0	17.2709	7
##	9308	17.1412	0	17.1412	8

## 9309	-16.7143	0	16.7143	9
## 9310	16.3667	0	16.3667	10
## 9311	-16.3042	0	16.3042	11
## 9312	16.0733	0	16.0733	12
## 9313	-15.6557	0	15.6557	13
## 9314	15.4853	0	15.4853	14
## 9315	-15.1860	0	15.1860	15
## 9316	15.0681	0	15.0681	16
## 9317	-14.6974	0	14.6974	17
## 9318	14.6649	0	14.6649	18
## 9319	-14.4199	0	14.4199	19
## 9320	14.2293	0	14.2293	20
## 9321	-13.5155	0	13.5155	21
## 9322	13.4879	0	13.4879	22
## 9323	-13.3129	0	13.3129	23
## 9324	13.1941	0	13.1941	24
## 9325	12.8184	0	12.8184	25
## 9326	-12.7075	0	12.7075	26
## 9327	-12.5540	0	12.5540	27
## 9328	12.3680	0	12.3680	28
## 9329	12.1652	0	12.1652	29
## 9330	11.9099	0	11.9099	30
## 9331	-11.8376	0	11.8376	31
## 9332	-11.6536	0	11.6536	32
## 9333	11.0939	0	11.0939	33
## 9334	-11.0766	0	11.0766	34
## 9335	10.8162	0	10.8162	35
## 9336	-10.7943	0	10.7943	36
## 9337	-10.5610	0	10.5610	37
## 9338	10.4118	0	10.4118	38
## 9339	10.2036	0	10.2036	39
## 9340	-10.1570	0	10.1570	40
## 9341	-9.9887	0	9.9887	41
## 9342	9.7132	0	9.7132	42
## 9343	-9.7120	0	9.7120	43
## 9344	9.5022	0	9.5022	44
## 9345	9.3448	0	9.3448	45
## 9346	-9.2055	0	9.2055	46
## 9347	8.9735	0	8.9735	47
## 9348	-8.8403	0	8.8403	48
## 9349	8.5782	0	8.5782	49
## 9350	-8.2161	0	8.2161	50
## 9351	8.0449	0	8.0449	51
## 9352	-7.7958	0	7.7958	52
## 9353	7.6586	0	7.6586	53
## 9354	-7.4891	0	7.4891	54
## 9355	7.1552	0	7.1552	55
## 9356	-7.0588	0	7.0588	56
## 9357	6.9852	0	6.9852	57
## 9358	-6.8384	0	6.8384	58
## 9359	6.6803	0	6.6803	59
## 9360	-6.6019	0	6.6019	60
## 9361	6.3346	0	6.3346	61
## 9362	-6.1280	0	6.1280	62

## 9363	-5.9786	0	5.9786	63
## 9364	5.9641	0	5.9641	64
## 9365	-5.7104	0	5.7104	65
## 9366	5.5727	0	5.5727	66
## 9367	5.3696	0	5.3696	67
## 9368	5.0825	0	5.0825	68
## 9369	-5.0619	0	5.0619	69
## 9370	-4.9722	0	4.9722	70
## 9371	4.7155	0	4.7155	71
## 9372	-4.6219	0	4.6219	72
## 9373	4.4832	0	4.4832	73
## 9374	-4.3548	0	4.3548	74
## 9375	4.3136	0	4.3136	75
## 9376	-4.0553	0	4.0553	76
## 9377	-3.7602	0	3.7602	77
## 9378	3.7575	0	3.7575	78
## 9379	-3.5424	0	3.5424	79
## 9380	3.4475	0	3.4475	80
## 9381	3.1713	0	3.1713	81
## 9382	-3.1149	0	3.1149	82
## 9383	-2.7888	0	2.7888	83
## 9384	2.7128	0	2.7128	84
## 9385	-2.4238	0	2.4238	85
## 9386	2.3892	0	2.3892	86
## 9387	2.2406	0	2.2406	87
## 9388	-2.2300	0	2.2300	88
## 9389	-2.0037	0	2.0037	89
## 9390	1.6698	0	1.6698	90
## 9391	-1.4366	0	1.4366	91
## 9392	1.3759	0	1.3759	92
## 9393	-1.1791	0	1.1791	93
## 9394	1.0055	0	1.0055	94
## 9395	-0.8992	0	0.8992	95
## 9396	0.7596	0	0.7596	96
## 9397	0.5113	0	0.5113	97
## 9398	-0.3992	0	0.3992	98
## 9399	0.2670	0	0.2670	99
## 9400	-0.1705	0	0.1705	100
## 9401	-18.9726	0	18.9726	1
## 9402	18.3378	0	18.3378	2
## 9403	-18.2590	0	18.2590	3
## 9404	17.7222	0	17.7222	4
## 9405	-17.4740	0	17.4740	5
## 9406	17.4728	0	17.4728	6
## 9407	17.0680	0	17.0680	7
## 9408	-16.9652	0	16.9652	8
## 9409	16.6627	0	16.6627	9
## 9410	-16.5733	0	16.5733	10
## 9411	15.8377	0	15.8377	11
## 9412	-15.7326	0	15.7326	12
## 9413	15.5567	0	15.5567	13
## 9414	-15.4219	0	15.4219	14
## 9415	-15.2652	0	15.2652	15
## 9416	14.8578	0	14.8578	16

##	9417	14.3659	0	14.3659	17
##	9418	-14.3122	0	14.3122	18
##	9419	-14.1806	0	14.1806	19
##	9420	14.1177	0	14.1177	20
##	9421	-13.7910	0	13.7910	21
##	9422	13.5338	0	13.5338	22
##	9423	13.2028	0	13.2028	23
##	9424	-13.1372	0	13.1372	24
##	9425	-13.0409	0	13.0409	25
##	9426	12.8578	0	12.8578	26
##	9427	-12.4933	0	12.4933	27
##	9428	12.2816	0	12.2816	28
##	9429	-11.7456	0	11.7456	29
##	9430	11.6918	0	11.6918	30
##	9431	-11.6612	0	11.6612	31
##	9432	11.3849	0	11.3849	32
##	9433	11.0936	0	11.0936	33
##	9434	-10.9606	0	10.9606	34
##	9435	-10.6784	0	10.6784	35
##	9436	10.3750	0	10.3750	36
##	9437	-10.1767	0	10.1767	37
##	9438	10.0885	0	10.0885	38
##	9439	9.9254	0	9.9254	39
##	9440	-9.7538	0	9.7538	40
##	9441	9.6236	0	9.6236	41
##	9442	-9.5115	0	9.5115	42
##	9443	-9.2248	0	9.2248	43
##	9444	9.2119	0	9.2119	44
##	9445	-8.8188	0	8.8188	45
##	9446	8.7585	0	8.7585	46
##	9447	8.6083	0	8.6083	47
##	9448	8.3843	0	8.3843	48
##	9449	-8.1382	0	8.1382	49
##	9450	7.8760	0	7.8760	50
##	9451	-7.7935	0	7.7935	51
##	9452	7.6627	0	7.6627	52
##	9453	-7.4289	0	7.4289	53
##	9454	7.4231	0	7.4231	54
##	9455	-7.2258	0	7.2258	55
##	9456	7.0264	0	7.0264	56
##	9457	6.8983	0	6.8983	57
##	9458	-6.8557	0	6.8557	58
##	9459	-6.6477	0	6.6477	59
##	9460	6.5264	0	6.5264	60
##	9461	6.3454	0	6.3454	61
##	9462	-6.2961	0	6.2961	62
##	9463	6.2557	0	6.2557	63
##	9464	-5.9634	0	5.9634	64
##	9465	5.6734	0	5.6734	65
##	9466	-5.5832	0	5.5832	66
##	9467	-5.3512	0	5.3512	67
##	9468	5.1468	0	5.1468	68
##	9469	-5.0531	0	5.0531	69
##	9470	4.9570	0	4.9570	70

## 9471	-4.8703	0	4.8703	71
## 9472	4.7349	0	4.7349	72
## 9473	-4.5616	0	4.5616	73
## 9474	-4.2627	0	4.2627	74
## 9475	4.2260	0	4.2260	75
## 9476	3.9971	0	3.9971	76
## 9477	-3.9236	0	3.9236	77
## 9478	3.6906	0	3.6906	78
## 9479	-3.5930	0	3.5930	79
## 9480	-3.2056	0	3.2056	80
## 9481	-2.8811	0	2.8811	81
## 9482	2.8726	0	2.8726	82
## 9483	2.5741	0	2.5741	83
## 9484	-2.3608	0	2.3608	84
## 9485	2.3569	0	2.3569	85
## 9486	-2.0147	0	2.0147	86
## 9487	1.8666	0	1.8666	87
## 9488	-1.7765	0	1.7765	88
## 9489	1.7135	0	1.7135	89
## 9490	1.4547	0	1.4547	90
## 9491	-1.3105	0	1.3105	91
## 9492	1.1788	0	1.1788	92
## 9493	0.9348	0	0.9348	93
## 9494	-0.9326	0	0.9326	94
## 9495	-0.7843	0	0.7843	95
## 9496	0.6305	0	0.6305	96
## 9497	-0.6191	0	0.6191	97
## 9498	0.5175	0	0.5175	98
## 9499	-0.2804	0	0.2804	99
## 9500	-0.0080	0	0.0080	100
## 9501	-19.5375	0	19.5375	1
## 9502	19.4974	0	19.4974	2
## 9503	-18.3030	0	18.3030	3
## 9504	18.0375	0	18.0375	4
## 9505	-17.7408	0	17.7408	5
## 9506	17.3791	0	17.3791	6
## 9507	-17.2759	0	17.2759	7
## 9508	17.0438	0	17.0438	8
## 9509	-16.6200	0	16.6200	9
## 9510	16.2110	0	16.2110	10
## 9511	-16.0292	0	16.0292	11
## 9512	15.5107	0	15.5107	12
## 9513	-15.4445	0	15.4445	13
## 9514	15.1988	0	15.1988	14
## 9515	-15.0504	0	15.0504	15
## 9516	14.7262	0	14.7262	16
## 9517	-14.5079	0	14.5079	17
## 9518	-14.1761	0	14.1761	18
## 9519	14.1326	0	14.1326	19
## 9520	13.8540	0	13.8540	20
## 9521	-13.7583	0	13.7583	21
## 9522	13.3614	0	13.3614	22
## 9523	-13.1880	0	13.1880	23
## 9524	12.8849	0	12.8849	24

## 9525	-12.7595	0	12.7595	25
## 9526	12.7409	0	12.7409	26
## 9527	12.5792	0	12.5792	27
## 9528	-12.2366	0	12.2366	28
## 9529	-12.0045	0	12.0045	29
## 9530	11.9773	0	11.9773	30
## 9531	-11.5689	0	11.5689	31
## 9532	11.4010	0	11.4010	32
## 9533	-11.2633	0	11.2633	33
## 9534	11.0827	0	11.0827	34
## 9535	-10.8680	0	10.8680	35
## 9536	10.6095	0	10.6095	36
## 9537	-10.4832	0	10.4832	37
## 9538	10.4449	0	10.4449	38
## 9539	10.1602	0	10.1602	39
## 9540	-9.9446	0	9.9446	40
## 9541	9.8608	0	9.8608	41
## 9542	-9.6841	0	9.6841	42
## 9543	-9.4886	0	9.4886	43
## 9544	9.4627	0	9.4627	44
## 9545	9.1956	0	9.1956	45
## 9546	-9.0288	0	9.0288	46
## 9547	-8.5178	0	8.5178	47
## 9548	8.4356	0	8.4356	48
## 9549	-8.2963	0	8.2963	49
## 9550	8.2479	0	8.2479	50
## 9551	-8.0372	0	8.0372	51
## 9552	8.0193	0	8.0193	52
## 9553	7.6918	0	7.6918	53
## 9554	-7.4515	0	7.4515	54
## 9555	7.3621	0	7.3621	55
## 9556	-7.2326	0	7.2326	56
## 9557	6.9199	0	6.9199	57
## 9558	6.8340	0	6.8340	58
## 9559	-6.7613	0	6.7613	59
## 9560	-6.6150	0	6.6150	60
## 9561	-6.2162	0	6.2162	61
## 9562	-6.0679	0	6.0679	62
## 9563	6.0651	0	6.0651	63
## 9564	-5.7519	0	5.7519	64
## 9565	5.7134	0	5.7134	65
## 9566	-5.3938	0	5.3938	66
## 9567	5.3013	0	5.3013	67
## 9568	-5.0448	0	5.0448	68
## 9569	-4.8741	0	4.8741	69
## 9570	4.8724	0	4.8724	70
## 9571	4.6003	0	4.6003	71
## 9572	-4.5349	0	4.5349	72
## 9573	4.4270	0	4.4270	73
## 9574	4.0690	0	4.0690	74
## 9575	-3.8589	0	3.8589	75
## 9576	3.6826	0	3.6826	76
## 9577	-3.5729	0	3.5729	77
## 9578	3.4855	0	3.4855	78

## 9579	3.2983	0	3.2983	79
## 9580	-3.1627	0	3.1627	80
## 9581	-3.0891	0	3.0891	81
## 9582	2.7510	0	2.7510	82
## 9583	-2.7220	0	2.7220	83
## 9584	2.4716	0	2.4716	84
## 9585	-2.3557	0	2.3557	85
## 9586	2.2149	0	2.2149	86
## 9587	-2.0545	0	2.0545	87
## 9588	1.9820	0	1.9820	88
## 9589	-1.6011	0	1.6011	89
## 9590	1.5489	0	1.5489	90
## 9591	-1.3929	0	1.3929	91
## 9592	1.3328	0	1.3328	92
## 9593	-1.1341	0	1.1341	93
## 9594	1.0300	0	1.0300	94
## 9595	-0.8653	0	0.8653	95
## 9596	0.7697	0	0.7697	96
## 9597	0.5490	0	0.5490	97
## 9598	-0.4393	0	0.4393	98
## 9599	0.2704	0	0.2704	99
## 9600	-0.1214	0	0.1214	100
## 9601	19.6759	0	19.6759	1
## 9602	-19.1066	0	19.1066	2
## 9603	18.7687	0	18.7687	3
## 9604	-18.2732	0	18.2732	4
## 9605	-17.5355	0	17.5355	5
## 9606	17.4501	0	17.4501	6
## 9607	-17.1494	0	17.1494	7
## 9608	16.8146	0	16.8146	8
## 9609	-16.7515	0	16.7515	9
## 9610	16.4293	0	16.4293	10
## 9611	-15.9369	0	15.9369	11
## 9612	15.8089	0	15.8089	12
## 9613	15.5087	0	15.5087	13
## 9614	-15.2986	0	15.2986	14
## 9615	14.9611	0	14.9611	15
## 9616	-14.5801	0	14.5801	16
## 9617	14.5414	0	14.5414	17
## 9618	-14.0228	0	14.0228	18
## 9619	13.9197	0	13.9197	19
## 9620	-13.6808	0	13.6808	20
## 9621	13.3766	0	13.3766	21
## 9622	-13.2259	0	13.2259	22
## 9623	-12.9168	0	12.9168	23
## 9624	12.8767	0	12.8767	24
## 9625	12.7380	0	12.7380	25
## 9626	-12.5219	0	12.5219	26
## 9627	12.3449	0	12.3449	27
## 9628	12.0930	0	12.0930	28
## 9629	-12.0513	0	12.0513	29
## 9630	-11.8545	0	11.8545	30
## 9631	11.8256	0	11.8256	31
## 9632	11.6214	0	11.6214	32

## 9633	-11.4508	0	11.4508	33
## 9634	10.9850	0	10.9850	34
## 9635	-10.9665	0	10.9665	35
## 9636	-10.8088	0	10.8088	36
## 9637	10.5581	0	10.5581	37
## 9638	-10.4284	0	10.4284	38
## 9639	10.2073	0	10.2073	39
## 9640	-9.8701	0	9.8701	40
## 9641	9.8017	0	9.8017	41
## 9642	9.5777	0	9.5777	42
## 9643	9.4659	0	9.4659	43
## 9644	-9.3848	0	9.3848	44
## 9645	-9.2082	0	9.2082	45
## 9646	-8.8324	0	8.8324	46
## 9647	8.7532	0	8.7532	47
## 9648	-8.5313	0	8.5313	48
## 9649	8.3149	0	8.3149	49
## 9650	-8.1280	0	8.1280	50
## 9651	7.9070	0	7.9070	51
## 9652	7.5985	0	7.5985	52
## 9653	-7.5564	0	7.5564	53
## 9654	-7.2011	0	7.2011	54
## 9655	7.1519	0	7.1519	55
## 9656	-6.9861	0	6.9861	56
## 9657	6.8164	0	6.8164	57
## 9658	-6.5799	0	6.5799	58
## 9659	6.5523	0	6.5523	59
## 9660	6.3264	0	6.3264	60
## 9661	-6.2725	0	6.2725	61
## 9662	6.1150	0	6.1150	62
## 9663	-6.0137	0	6.0137	63
## 9664	-5.8287	0	5.8287	64
## 9665	5.7919	0	5.7919	65
## 9666	-5.4817	0	5.4817	66
## 9667	5.2858	0	5.2858	67
## 9668	-5.2665	0	5.2665	68
## 9669	5.1871	0	5.1871	69
## 9670	4.9607	0	4.9607	70
## 9671	-4.9171	0	4.9171	71
## 9672	-4.6391	0	4.6391	72
## 9673	4.4339	0	4.4339	73
## 9674	-4.3285	0	4.3285	74
## 9675	-4.0181	0	4.0181	75
## 9676	3.9805	0	3.9805	76
## 9677	3.7565	0	3.7565	77
## 9678	-3.4522	0	3.4522	78
## 9679	3.3235	0	3.3235	79
## 9680	-3.1960	0	3.1960	80
## 9681	3.0987	0	3.0987	81
## 9682	-2.7448	0	2.7448	82
## 9683	-2.4470	0	2.4470	83
## 9684	2.4397	0	2.4397	84
## 9685	2.3600	0	2.3600	85
## 9686	-2.3088	0	2.3088	86

## 9687	2.1094	0	2.1094	87
## 9688	-1.8493	0	1.8493	88
## 9689	1.7844	0	1.7844	89
## 9690	-1.6781	0	1.6781	90
## 9691	1.4974	0	1.4974	91
## 9692	-1.4911	0	1.4911	92
## 9693	-1.0589	0	1.0589	93
## 9694	0.9715	0	0.9715	94
## 9695	0.8142	0	0.8142	95
## 9696	-0.7291	0	0.7291	96
## 9697	0.6019	0	0.6019	97
## 9698	0.4986	0	0.4986	98
## 9699	-0.3313	0	0.3313	99
## 9700	0.1949	0	0.1949	100
## 9701	-19.1822	0	19.1822	1
## 9702	18.9855	0	18.9855	2
## 9703	-18.9119	0	18.9119	3
## 9704	17.9234	0	17.9234	4
## 9705	-17.8770	0	17.8770	5
## 9706	-17.2916	0	17.2916	6
## 9707	17.0149	0	17.0149	7
## 9708	16.5927	0	16.5927	8
## 9709	16.4454	0	16.4454	9
## 9710	-16.4203	0	16.4203	10
## 9711	-16.1363	0	16.1363	11
## 9712	15.9364	0	15.9364	12
## 9713	-15.8463	0	15.8463	13
## 9714	15.7048	0	15.7048	14
## 9715	-14.8703	0	14.8703	15
## 9716	14.8533	0	14.8533	16
## 9717	-14.8194	0	14.8194	17
## 9718	-14.1461	0	14.1461	18
## 9719	14.1292	0	14.1292	19
## 9720	13.7931	0	13.7931	20
## 9721	-13.6344	0	13.6344	21
## 9722	13.4617	0	13.4617	22
## 9723	13.2113	0	13.2113	23
## 9724	-13.1328	0	13.1328	24
## 9725	12.9642	0	12.9642	25
## 9726	-12.4649	0	12.4649	26
## 9727	12.3961	0	12.3961	27
## 9728	-12.0883	0	12.0883	28
## 9729	11.9657	0	11.9657	29
## 9730	-11.8220	0	11.8220	30
## 9731	11.6365	0	11.6365	31
## 9732	-11.5492	0	11.5492	32
## 9733	11.0908	0	11.0908	33
## 9734	-11.0155	0	11.0155	34
## 9735	10.9078	0	10.9078	35
## 9736	-10.7832	0	10.7832	36
## 9737	10.5584	0	10.5584	37
## 9738	-10.4193	0	10.4193	38
## 9739	10.3232	0	10.3232	39
## 9740	-10.1822	0	10.1822	40

## 9741	10.1565	0	10.1565	41
## 9742	-9.8664	0	9.8664	42
## 9743	9.5851	0	9.5851	43
## 9744	-9.3742	0	9.3742	44
## 9745	9.3177	0	9.3177	45
## 9746	9.1902	0	9.1902	46
## 9747	-8.8436	0	8.8436	47
## 9748	-8.7066	0	8.7066	48
## 9749	8.6412	0	8.6412	49
## 9750	8.4854	0	8.4854	50
## 9751	-8.3831	0	8.3831	51
## 9752	-7.9477	0	7.9477	52
## 9753	7.5344	0	7.5344	53
## 9754	-7.5177	0	7.5177	54
## 9755	7.3844	0	7.3844	55
## 9756	7.2292	0	7.2292	56
## 9757	-6.9977	0	6.9977	57
## 9758	6.8878	0	6.8878	58
## 9759	-6.8750	0	6.8750	59
## 9760	6.5571	0	6.5571	60
## 9761	-6.3506	0	6.3506	61
## 9762	6.2043	0	6.2043	62
## 9763	-6.1101	0	6.1101	63
## 9764	5.6073	0	5.6073	64
## 9765	-5.5882	0	5.5882	65
## 9766	5.5294	0	5.5294	66
## 9767	-5.4154	0	5.4154	67
## 9768	-5.1579	0	5.1579	68
## 9769	4.9455	0	4.9455	69
## 9770	4.5945	0	4.5945	70
## 9771	-4.5929	0	4.5929	71
## 9772	-4.4096	0	4.4096	72
## 9773	4.2557	0	4.2557	73
## 9774	-3.9762	0	3.9762	74
## 9775	-3.9081	0	3.9081	75
## 9776	3.8277	0	3.8277	76
## 9777	-3.6980	0	3.6980	77
## 9778	3.6495	0	3.6495	78
## 9779	3.5030	0	3.5030	79
## 9780	-3.2155	0	3.2155	80
## 9781	-3.0533	0	3.0533	81
## 9782	2.8717	0	2.8717	82
## 9783	-2.7012	0	2.7012	83
## 9784	2.6119	0	2.6119	84
## 9785	2.4022	0	2.4022	85
## 9786	-2.1605	0	2.1605	86
## 9787	1.8784	0	1.8784	87
## 9788	-1.8327	0	1.8327	88
## 9789	1.7297	0	1.7297	89
## 9790	-1.5860	0	1.5860	90
## 9791	1.5277	0	1.5277	91
## 9792	-1.3411	0	1.3411	92
## 9793	1.1862	0	1.1862	93
## 9794	-0.9634	0	0.9634	94

##	9795	0.8262	0	0.8262	95
##	9796	-0.7496	0	0.7496	96
##	9797	-0.6428	0	0.6428	97
##	9798	0.4951	0	0.4951	98
##	9799	0.2924	0	0.2924	99
##	9800	-0.2508	0	0.2508	100
##	9801	18.9755	0	18.9755	1
##	9802	-18.6787	0	18.6787	2
##	9803	18.0887	0	18.0887	3
##	9804	-18.0376	0	18.0376	4
##	9805	-17.2913	0	17.2913	5
##	9806	17.2203	0	17.2203	6
##	9807	16.7841	0	16.7841	7
##	9808	-16.7260	0	16.7260	8
##	9809	16.6326	0	16.6326	9
##	9810	-16.2097	0	16.2097	10
##	9811	-15.9897	0	15.9897	11
##	9812	15.7676	0	15.7676	12
##	9813	-15.4552	0	15.4552	13
##	9814	15.2744	0	15.2744	14
##	9815	-14.7524	0	14.7524	15
##	9816	14.7438	0	14.7438	16
##	9817	-14.5058	0	14.5058	17
##	9818	14.4051	0	14.4051	18
##	9819	-14.1303	0	14.1303	19
##	9820	13.9453	0	13.9453	20
##	9821	-13.7360	0	13.7360	21
##	9822	13.4172	0	13.4172	22
##	9823	-13.3459	0	13.3459	23
##	9824	13.1135	0	13.1135	24
##	9825	-12.8732	0	12.8732	25
##	9826	12.8629	0	12.8629	26
##	9827	12.5844	0	12.5844	27
##	9828	-12.2974	0	12.2974	28
##	9829	12.0034	0	12.0034	29
##	9830	11.6831	0	11.6831	30
##	9831	-11.6356	0	11.6356	31
##	9832	11.3265	0	11.3265	32
##	9833	-11.2190	0	11.2190	33
##	9834	10.9040	0	10.9040	34
##	9835	-10.8432	0	10.8432	35
##	9836	-10.6670	0	10.6670	36
##	9837	10.5893	0	10.5893	37
##	9838	-10.2468	0	10.2468	38
##	9839	10.0255	0	10.0255	39
##	9840	-9.9317	0	9.9317	40
##	9841	9.8436	0	9.8436	41
##	9842	9.4993	0	9.4993	42
##	9843	-9.4426	0	9.4426	43
##	9844	-9.0055	0	9.0055	44
##	9845	9.0026	0	9.0026	45
##	9846	8.7760	0	8.7760	46
##	9847	-8.6963	0	8.6963	47
##	9848	-8.5767	0	8.5767	48

## 9849	8.3091	0	8.3091	49
## 9850	-8.2409	0	8.2409	50
## 9851	8.2259	0	8.2259	51
## 9852	-8.0501	0	8.0501	52
## 9853	-7.7042	0	7.7042	53
## 9854	7.5979	0	7.5979	54
## 9855	-7.4616	0	7.4616	55
## 9856	7.2323	0	7.2323	56
## 9857	7.1842	0	7.1842	57
## 9858	-6.9352	0	6.9352	58
## 9859	6.8898	0	6.8898	59
## 9860	-6.7845	0	6.7845	60
## 9861	6.5079	0	6.5079	61
## 9862	-6.1882	0	6.1882	62
## 9863	6.1796	0	6.1796	63
## 9864	-5.8581	0	5.8581	64
## 9865	-5.6463	0	5.6463	65
## 9866	5.5163	0	5.5163	66
## 9867	-5.2330	0	5.2330	67
## 9868	5.2192	0	5.2192	68
## 9869	5.1311	0	5.1311	69
## 9870	-5.0339	0	5.0339	70
## 9871	4.6518	0	4.6518	71
## 9872	-4.6106	0	4.6106	72
## 9873	4.3493	0	4.3493	73
## 9874	-4.1921	0	4.1921	74
## 9875	3.9424	0	3.9424	75
## 9876	-3.7293	0	3.7293	76
## 9877	3.7162	0	3.7162	77
## 9878	-3.4698	0	3.4698	78
## 9879	3.3674	0	3.3674	79
## 9880	3.2766	0	3.2766	80
## 9881	-3.2591	0	3.2591	81
## 9882	2.9425	0	2.9425	82
## 9883	-2.8479	0	2.8479	83
## 9884	2.6679	0	2.6679	84
## 9885	-2.5419	0	2.5419	85
## 9886	2.4759	0	2.4759	86
## 9887	-2.2934	0	2.2934	87
## 9888	1.9833	0	1.9833	88
## 9889	-1.8700	0	1.8700	89
## 9890	1.7372	0	1.7372	90
## 9891	-1.4754	0	1.4754	91
## 9892	1.4595	0	1.4595	92
## 9893	-1.2978	0	1.2978	93
## 9894	1.0456	0	1.0456	94
## 9895	-1.0221	0	1.0221	95
## 9896	-0.6125	0	0.6125	96
## 9897	0.5679	0	0.5679	97
## 9898	-0.4582	0	0.4582	98
## 9899	0.2459	0	0.2459	99
## 9900	-0.0880	0	0.0880	100
## 9901	-19.1373	0	19.1373	1
## 9902	18.5593	0	18.5593	2

##	9903	-18.4240	0	18.4240	3
##	9904	18.1119	0	18.1119	4
##	9905	-17.6707	0	17.6707	5
##	9906	17.0025	0	17.0025	6
##	9907	16.9387	0	16.9387	7
##	9908	-16.8712	0	16.8712	8
##	9909	-16.5463	0	16.5463	9
##	9910	16.3236	0	16.3236	10
##	9911	-16.1190	0	16.1190	11
##	9912	15.8046	0	15.8046	12
##	9913	-15.4157	0	15.4157	13
##	9914	15.3277	0	15.3277	14
##	9915	-15.0991	0	15.0991	15
##	9916	14.8492	0	14.8492	16
##	9917	-14.5920	0	14.5920	17
##	9918	14.3701	0	14.3701	18
##	9919	14.1626	0	14.1626	19
##	9920	-14.0508	0	14.0508	20
##	9921	-13.8972	0	13.8972	21
##	9922	-13.2312	0	13.2312	22
##	9923	13.1915	0	13.1915	23
##	9924	-13.0934	0	13.0934	24
##	9925	13.0264	0	13.0264	25
##	9926	12.6385	0	12.6385	26
##	9927	-12.5809	0	12.5809	27
##	9928	12.3126	0	12.3126	28
##	9929	-12.1280	0	12.1280	29
##	9930	-11.9659	0	11.9659	30
##	9931	11.7948	0	11.7948	31
##	9932	11.4426	0	11.4426	32
##	9933	11.2853	0	11.2853	33
##	9934	-11.0774	0	11.0774	34
##	9935	-10.9305	0	10.9305	35
##	9936	10.5519	0	10.5519	36
##	9937	10.2006	0	10.2006	37
##	9938	-10.1460	0	10.1460	38
##	9939	-9.7686	0	9.7686	39
##	9940	9.7519	0	9.7519	40
##	9941	-9.6452	0	9.6452	41
##	9942	9.6219	0	9.6219	42
##	9943	-9.2610	0	9.2610	43
##	9944	9.1545	0	9.1545	44
##	9945	-9.1433	0	9.1433	45
##	9946	8.8108	0	8.8108	46
##	9947	-8.7239	0	8.7239	47
##	9948	8.4159	0	8.4159	48
##	9949	-8.3221	0	8.3221	49
##	9950	8.1835	0	8.1835	50
##	9951	-7.8494	0	7.8494	51
##	9952	-7.6645	0	7.6645	52
##	9953	7.5877	0	7.5877	53
##	9954	7.4090	0	7.4090	54
##	9955	-7.3240	0	7.3240	55
##	9956	7.0575	0	7.0575	56

```
## 9957 -6.9192 0 6.9192 57
## 9958 -6.6369 0 6.6369 58
## 9959 6.4805 0 6.4805 59
## 9960 6.2936 0 6.2936 60
## 9961 -6.1570 0 6.1570 61
## 9962 6.1039 0 6.1039 62
## 9963 5.8916 0 5.8916 63
## 9964 -5.7153 0 5.7153 64
## 9965 5.4979 0 5.4979 65
## 9966 -5.4861 0 5.4861 66
## 9967 -5.1153 0 5.1153 67
## 9968 5.0445 0 5.0445 68
## 9969 -5.0251 0 5.0251 69
## 9970 4.7915 0 4.7915 70
## 9971 4.5484 0 4.5484 71
## 9972 -4.4090 0 4.4090 72
## 9973 4.1996 0 4.1996 73
## 9974 4.0832 0 4.0832 74
## 9975 -4.0699 0 4.0699 75
## 9976 -3.8617 0 3.8617 76
## 9977 3.6293 0 3.6293 77
## 9978 -3.5609 0 3.5609 78
## 9979 -3.4404 0 3.4404 79
## 9980 3.3707 0 3.3707 80
## 9981 -3.0028 0 3.0028 81
## 9982 -2.8622 0 2.8622 82
## 9983 2.8124 0 2.8124 83
## 9984 2.5611 0 2.5611 84
## 9985 -2.5387 0 2.5387 85
## 9986 -2.3211 0 2.3211 86
## 9987 2.0930 0 2.0930 87
## 9988 2.0349 0 2.0349 88
## 9989 1.7068 0 1.7068 89
## 9990 -1.6621 0 1.6621 90
## 9991 -1.3929 0 1.3929 91
## 9992 1.3248 0 1.3248 92
## 9993 -1.1753 0 1.1753 93
## 9994 1.0661 0 1.0661 94
## 9995 -0.8734 0 0.8734 95
## 9996 0.6289 0 0.6289 96
## 9997 -0.3861 0 0.3861 97
## 9998 0.3612 0 0.3612 98
## 9999 -0.1655 0 0.1655 99
## 10000 0.1477 0 0.1477 100
```

```
t1 <- Sys.time()
```

```
t1 - t0
```

```
## Time difference of 8.53441 secs
```

```
t0 <- Sys.time()
```

```
spectrum_beta <- RME_beta(N = 100, beta = 2, size = 30) %>% spectrum()
```

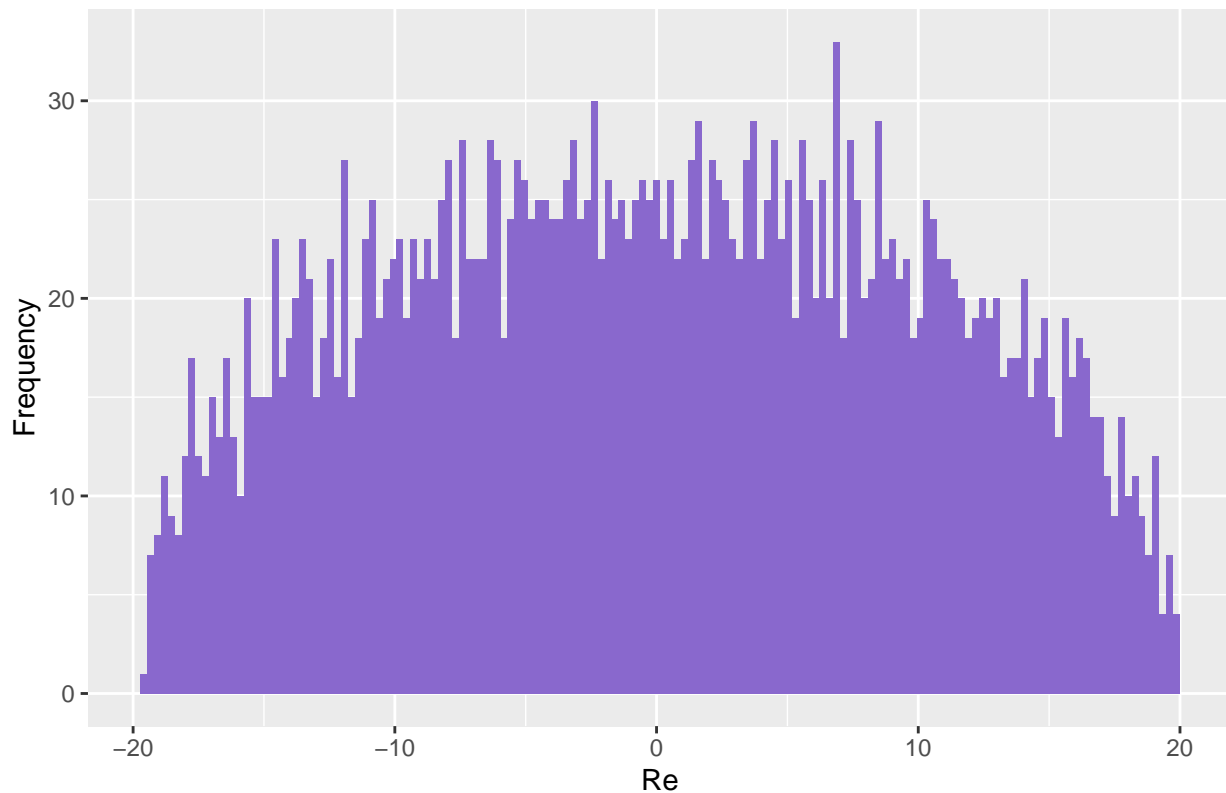
```
t1 <- Sys.time()
```

```
t1 - t0
```

```
## Time difference of 1.893245 secs
```

```
spectrum_beta %>% spectrum.histogram(component = "Re", bins = 150)
```

Spectrum of a Matrix Ensemble (Re)



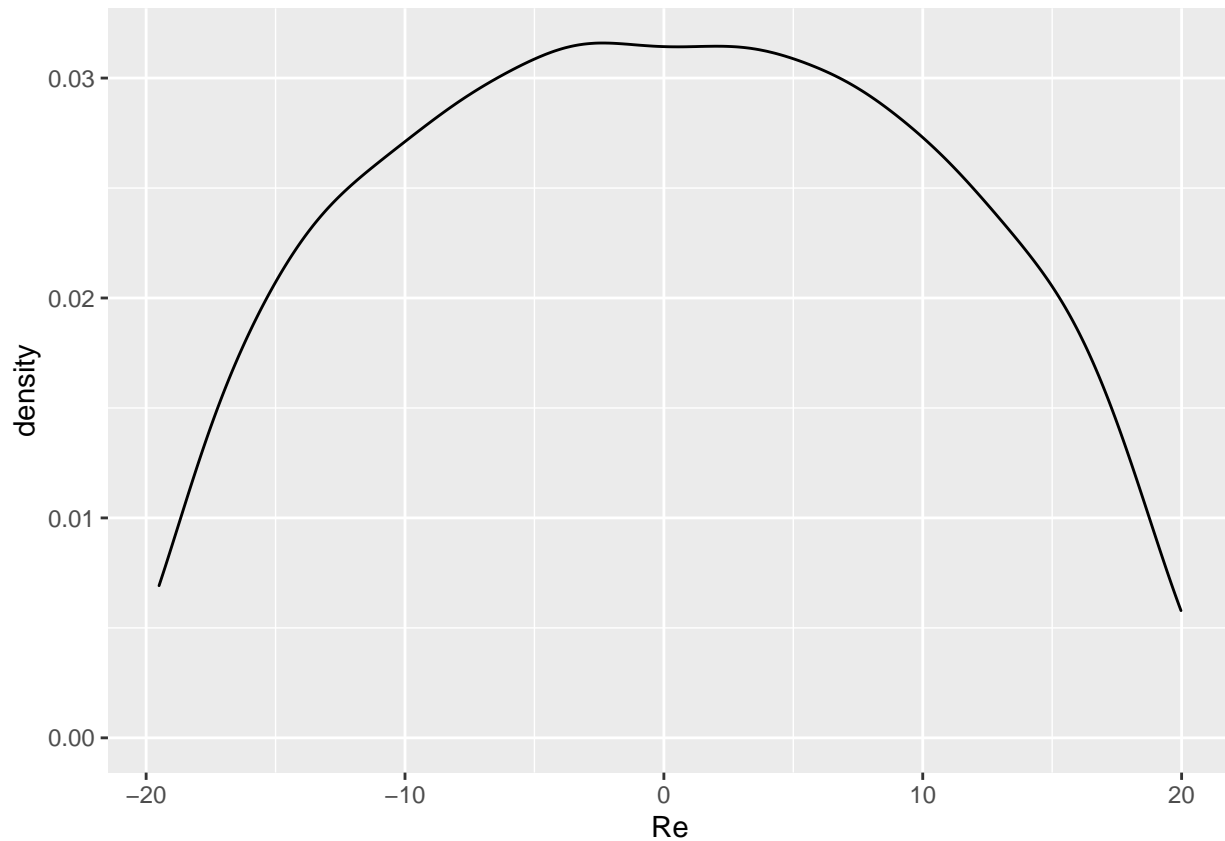
```
spectral_radius <- function(spectrum_){max(abs(spectrum_$Re))}
spectral_radius(spectrum_beta)
```

```
## [1] 19.9762
```

```
((spectral_radius(RME_beta(N = 10, beta = 2, size = 40) %>% spectrum()))^2)
```

```
## [1] 46.58745
```

```
spectrum_beta %>%
  ggplot(aes(x = Re)) +
  geom_density(stat = "density")
```



```

N <- 30
size <- 10
RME_norm(N = N, sd = 0.01, symm = T, size = size) %>% normalized_dispersion()

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
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## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

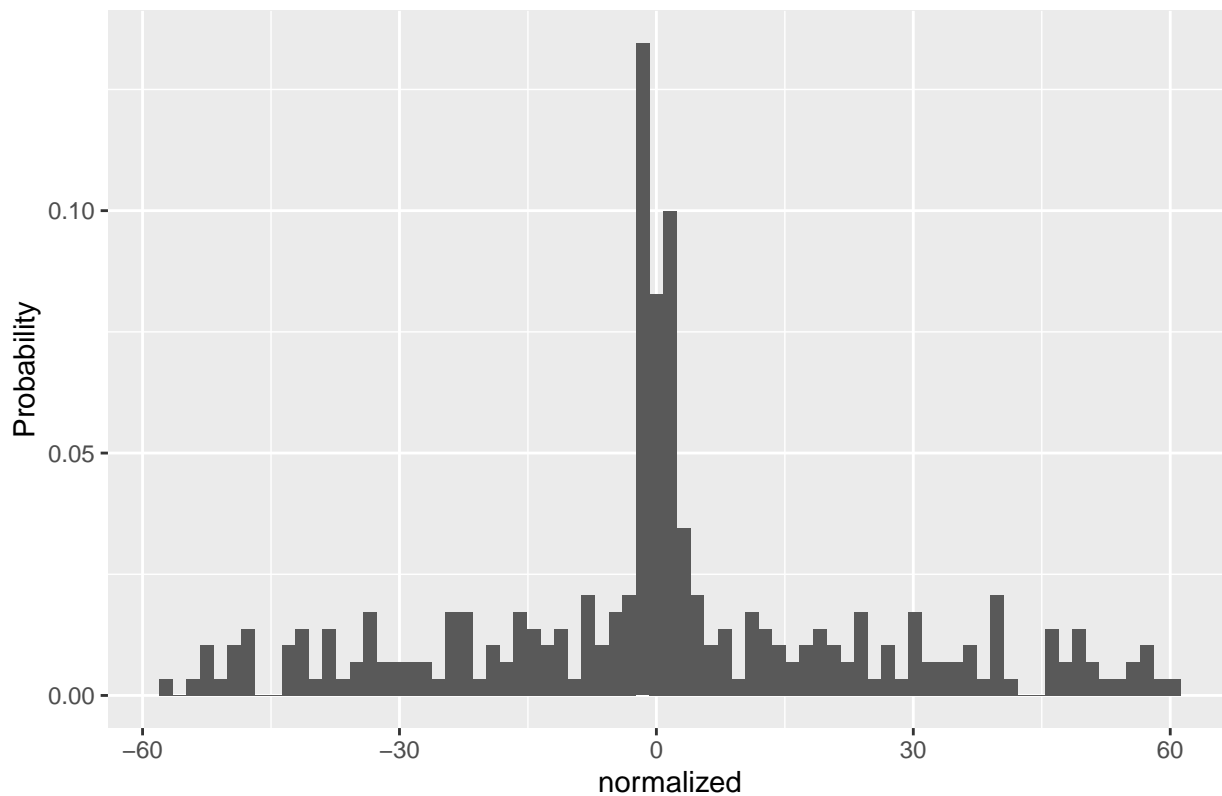
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

Distribution of Eigenvalue Spacings



```
RME_norm(N = N, sd = 0.1, symm = T, size = size) %>% normalized_dispersion()
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
```

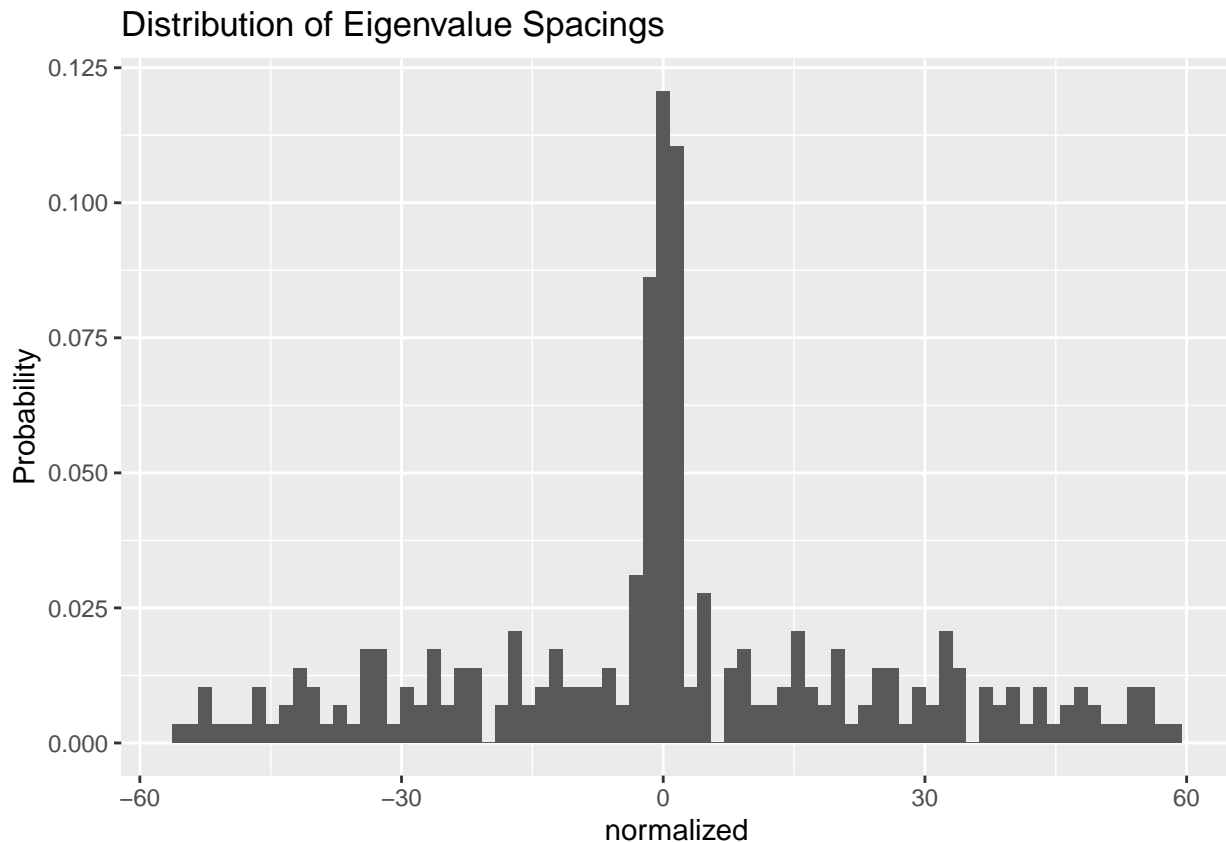


```
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and  
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and  
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and  
## only the first element will be used
```



```
RME_norm(N = N, sd = 5, symm = T, size = size) %>% normalized_dispersion()
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and  
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and  
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and  
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and  
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and  
## only the first element will be used
```

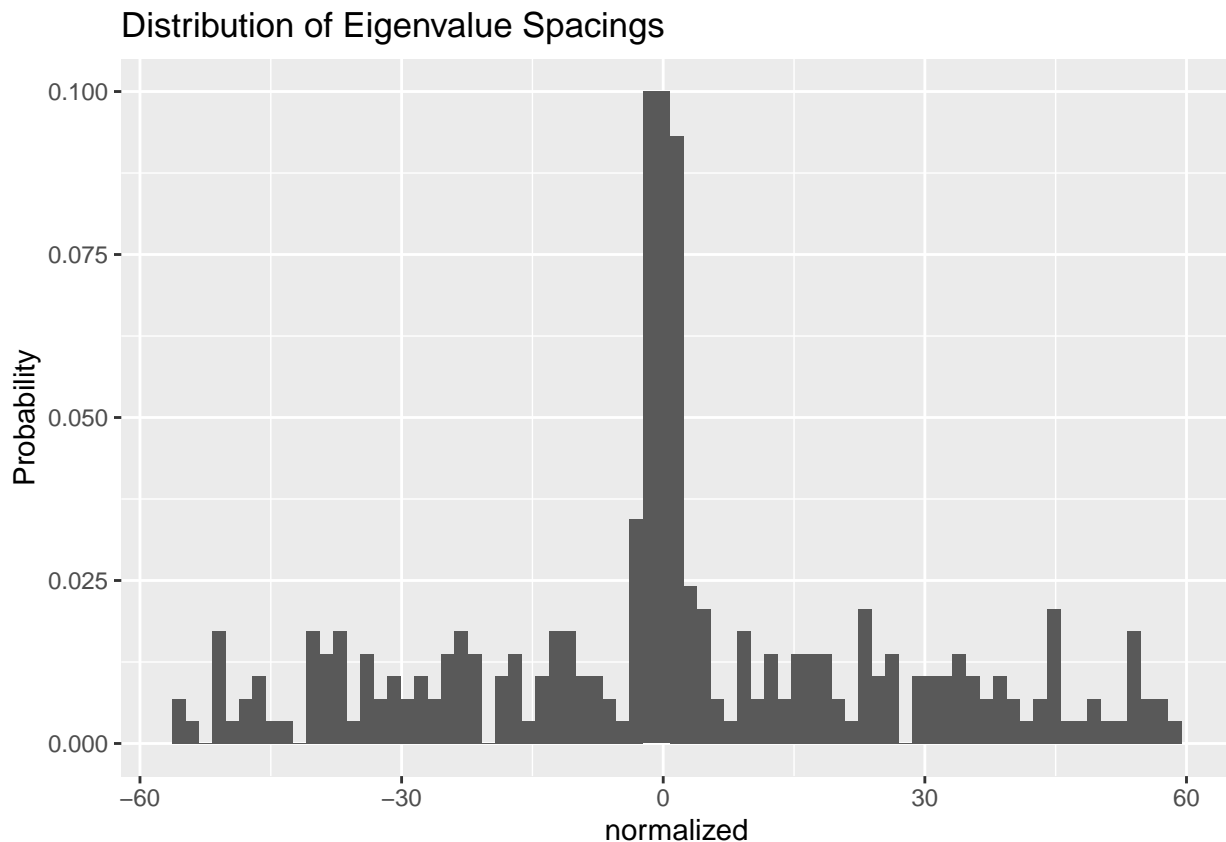
```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```



```
RME_norm(N = N, sd = 10, symm = T, size = size) %>% normalized_dispersions()
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

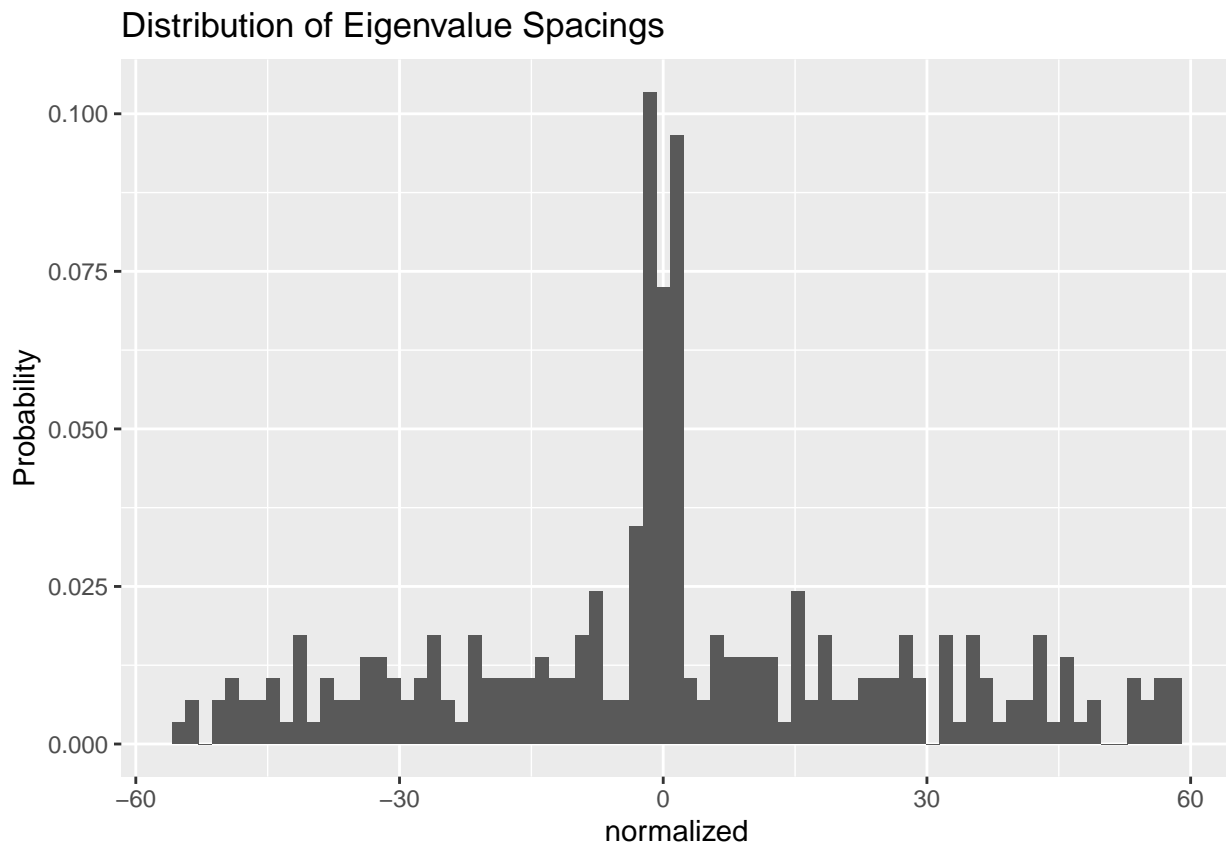
```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```



```
RME_norm(N = N, sd = 20, symm = T, size = size) %>% normalized_dispersion()
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
```

```
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

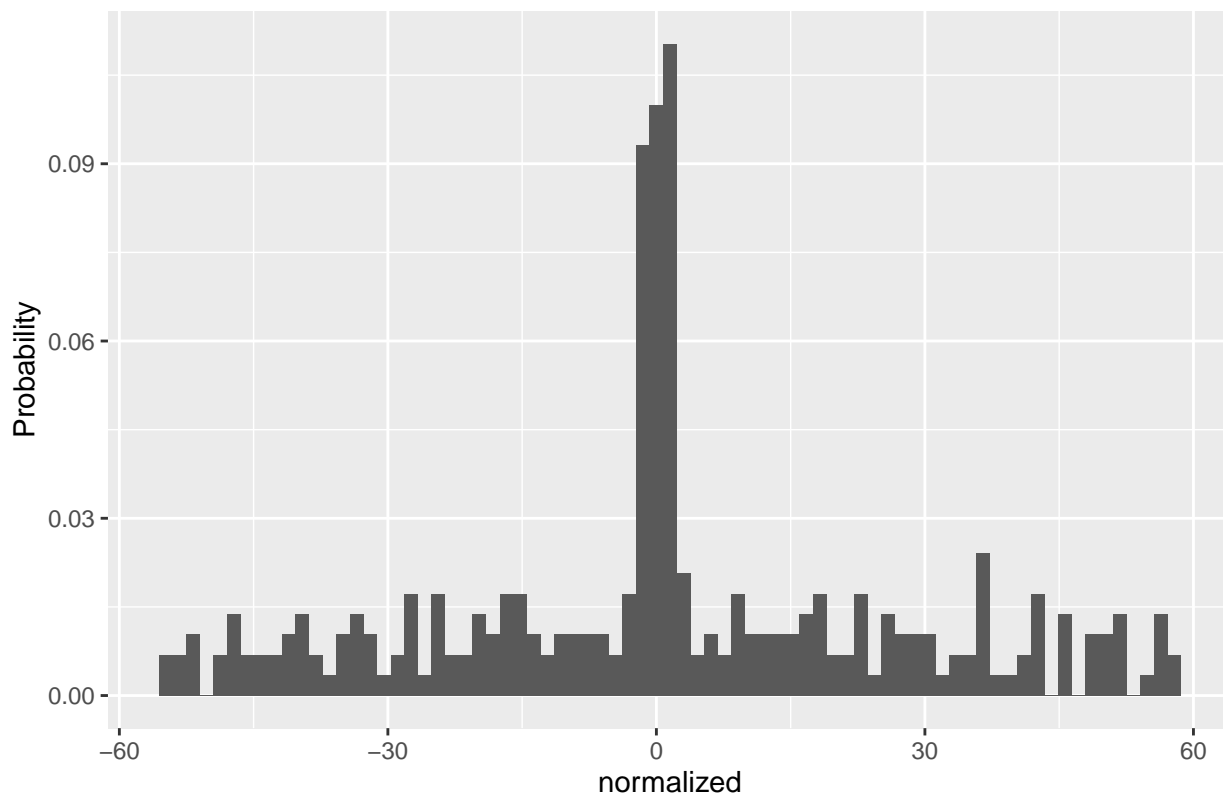
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

Distribution of Eigenvalue Spacings



```
RME_norm(N = N, sd = 50, symm = T, size = size) %>% normalized_dispersion()
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```

```
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

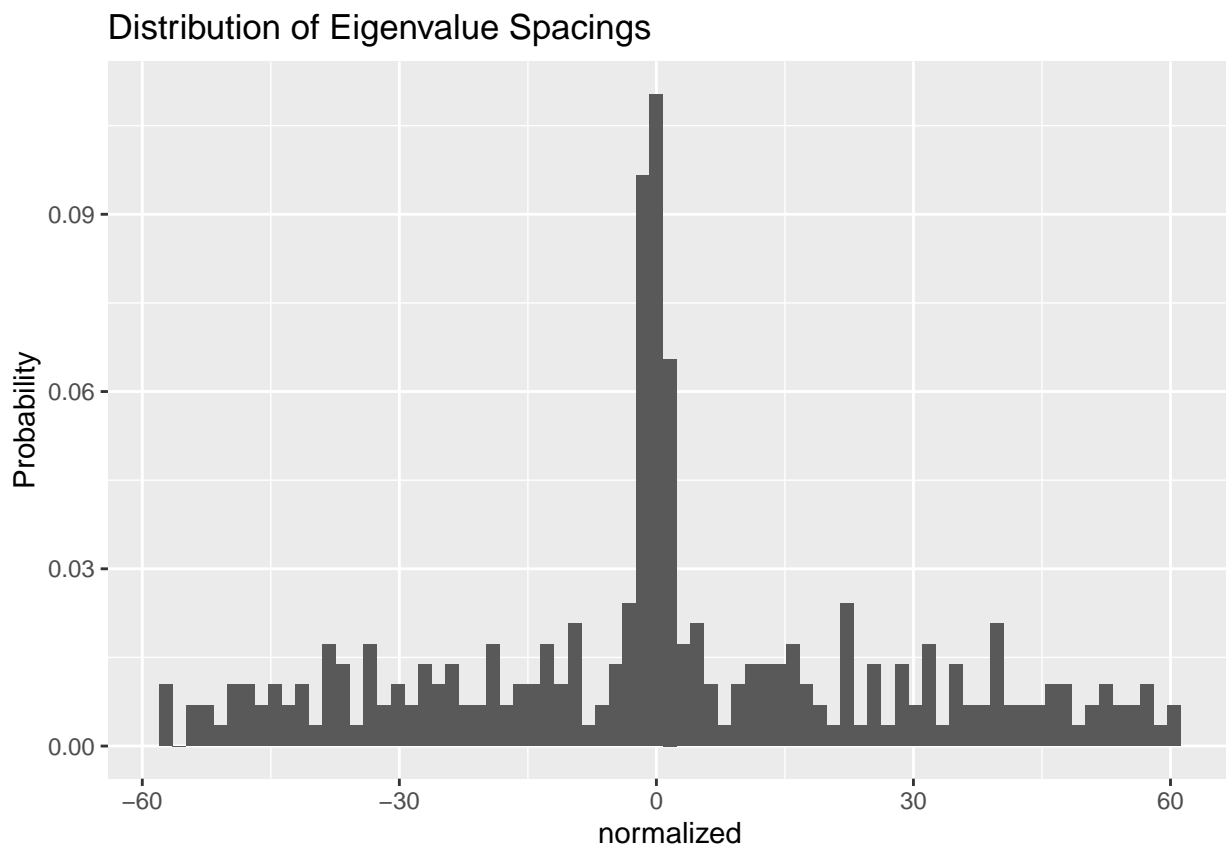
## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used
```



```

RME_norm(N = N, sd = 100, symm = T, size = size) %>% normalized_dispersions()

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

## Warning in if (class(array) == "matrix") {: the condition has length > 1 and
## only the first element will be used

```

