

# Overnight rates

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2023-08-17

```
# Source the external R script
```

```
source("C:/Users/Zenobia/Documents/Research/MonetaryPolicy/MonetaryPolicy/Code/olsgmmv2.R")
```

```
headers= read.csv('C:/Users/Zenobia/Documents/Research/MonetaryPolicy/MonetaryPolicy/Data/Final data f
```

```
spread <- read.csv('C:/Users/Zenobia/Documents/Research/MonetaryPolicy/MonetaryPolicy/Data/Final data f
```

```
colnames(spread)=headers
```

```
spread %>% replace(is.na(.),0)
```

##		Time	EFFR	VolumeEFFR	TargetUe	TargetDe	PercentileE1
## 1	3/7/2016	0:00	0.37	320	0.00	0.00	0.15
## 2	3/8/2016	0:00	0.37	327	0.00	0.00	0.25
## 3	3/9/2016	0:00	0.37	322	0.00	0.00	0.25
## 4	3/10/2016	0:00	0.37	331	0.00	0.00	0.25
## 5	3/11/2016	0:00	0.37	314	0.00	0.00	0.25
## 6	3/14/2016	0:00	0.37	304	0.00	0.00	0.25
## 7	3/15/2016	0:00	0.37	302	0.00	0.00	0.29
## 8	3/16/2016	0:00	0.37	299	0.00	0.00	0.28
## 9	3/17/2016	0:00	0.37	306	0.00	0.00	0.15
## 10	3/18/2016	0:00	0.37	299	0.00	0.00	0.15
## 11	3/21/2016	0:00	0.37	305	0.00	0.00	0.15
## 12	3/22/2016	0:00	0.37	310	0.00	0.00	0.25
## 13	3/23/2016	0:00	0.37	295	0.00	0.00	0.25
## 14	3/24/2016	0:00	0.37	94	0.00	0.00	0.24
## 15	3/25/2016	0:00	0.37	96	0.00	0.00	0.01
## 16	3/28/2016	0:00	0.37	297	0.00	0.00	0.25
## 17	3/29/2016	0:00	0.37	295	0.00	0.00	0.25
## 18	3/30/2016	0:00	0.37	301	0.00	0.00	0.25
## 19	3/31/2016	0:00	0.25	181	0.00	0.00	0.15
## 20	4/1/2016	0:00	0.37	292	0.00	0.00	0.25
## 21	4/4/2016	0:00	0.37	294	0.00	0.00	0.28
## 22	4/5/2016	0:00	0.37	291	0.00	0.00	0.28
## 23	4/6/2016	0:00	0.37	292	0.00	0.00	0.25
## 24	4/7/2016	0:00	0.37	294	0.00	0.00	0.29
## 25	4/8/2016	0:00	0.37	293	0.00	0.00	0.27
## 26	4/11/2016	0:00	0.37	298	0.00	0.00	0.29
## 27	4/12/2016	0:00	0.37	300	0.00	0.00	0.29
## 28	4/13/2016	0:00	0.37	289	0.00	0.00	0.15
## 29	4/14/2016	0:00	0.37	278	0.00	0.00	0.29
## 30	4/15/2016	0:00	0.37	277	0.00	0.00	0.20
## 31	4/18/2016	0:00	0.37	283	0.00	0.00	0.29
## 32	4/19/2016	0:00	0.37	290	0.00	0.00	0.29

## 33	4/20/2016 0:00 0.37	282	0.00	0.00	0.28
## 34	4/21/2016 0:00 0.37	299	0.00	0.00	0.25
## 35	4/22/2016 0:00 0.37	289	0.00	0.00	0.05
## 36	4/25/2016 0:00 0.37	279	0.00	0.00	0.25
## 37	4/26/2016 0:00 0.37	273	0.00	0.00	0.25
## 38	4/27/2016 0:00 0.37	294	0.00	0.00	0.28
## 39	4/28/2016 0:00 0.37	302	0.00	0.00	0.29
## 40	4/29/2016 0:00 0.30	290	0.00	0.00	0.27
## 41	5/2/2016 0:00 0.37	280	0.00	0.00	0.28
## 42	5/3/2016 0:00 0.37	296	0.00	0.00	0.29
## 43	5/4/2016 0:00 0.37	267	0.00	0.00	0.28
## 44	5/5/2016 0:00 0.37	292	0.00	0.00	0.29
## 45	5/6/2016 0:00 0.37	294	0.00	0.00	0.29
## 46	5/9/2016 0:00 0.37	296	0.00	0.00	0.29
## 47	5/10/2016 0:00 0.37	292	0.00	0.00	0.29
## 48	5/11/2016 0:00 0.37	287	0.00	0.00	0.29
## 49	5/12/2016 0:00 0.37	292	0.00	0.00	0.29
## 50	5/13/2016 0:00 0.37	268	0.00	0.00	0.29
## 51	5/16/2016 0:00 0.37	290	0.00	0.00	0.29
## 52	5/17/2016 0:00 0.37	293	0.00	0.00	0.25
## 53	5/18/2016 0:00 0.37	301	0.00	0.00	0.15
## 54	5/19/2016 0:00 0.37	309	0.00	0.00	0.30
## 55	5/20/2016 0:00 0.37	309	0.00	0.00	0.29
## 56	5/23/2016 0:00 0.37	313	0.00	0.00	0.31
## 57	5/24/2016 0:00 0.37	321	0.00	0.00	0.20
## 58	5/25/2016 0:00 0.37	307	0.00	0.00	0.29
## 59	5/26/2016 0:00 0.37	318	0.00	0.00	0.30
## 60	5/27/2016 0:00 0.37	308	0.00	0.00	0.29
## 61	5/31/2016 0:00 0.29	284	0.00	0.00	0.26
## 62	6/1/2016 0:00 0.37	305	0.00	0.00	0.29
## 63	6/2/2016 0:00 0.37	302	0.00	0.00	0.29
## 64	6/3/2016 0:00 0.37	295	0.00	0.00	0.28
## 65	6/6/2016 0:00 0.37	291	0.00	0.00	0.29
## 66	6/7/2016 0:00 0.37	296	0.00	0.00	0.29
## 67	6/8/2016 0:00 0.37	293	0.00	0.00	0.30
## 68	6/9/2016 0:00 0.37	293	0.00	0.00	0.30
## 69	6/10/2016 0:00 0.37	284	0.00	0.00	0.30
## 70	6/13/2016 0:00 0.37	285	0.00	0.00	0.30
## 71	6/14/2016 0:00 0.37	257	0.00	0.00	0.29
## 72	6/15/2016 0:00 0.38	241	0.00	0.00	0.28
## 73	6/16/2016 0:00 0.38	255	0.00	0.00	0.28
## 74	6/17/2016 0:00 0.38	247	0.00	0.00	0.28
## 75	6/20/2016 0:00 0.38	248	0.00	0.00	0.27
## 76	6/21/2016 0:00 0.38	258	0.00	0.00	0.27
## 77	6/22/2016 0:00 0.38	250	0.00	0.00	0.27
## 78	6/23/2016 0:00 0.39	244	0.00	0.00	0.27
## 79	6/24/2016 0:00 0.40	248	0.00	0.00	0.05
## 80	6/27/2016 0:00 0.41	239	0.00	0.00	0.27
## 81	6/28/2016 0:00 0.41	242	0.00	0.00	0.28
## 82	6/29/2016 0:00 0.41	249	0.00	0.00	0.25
## 83	6/30/2016 0:00 0.30	159	0.00	0.00	0.20
## 84	7/1/2016 0:00 0.41	235	0.00	0.00	0.25
## 85	7/5/2016 0:00 0.40	273	0.00	0.00	0.30
## 86	7/6/2016 0:00 0.40	231	0.00	0.00	0.25

## 87	7/7/2016 0:00 0.40	245	0.00	0.00	0.27
## 88	7/8/2016 0:00 0.40	244	0.00	0.00	0.25
## 89	7/11/2016 0:00 0.40	254	0.00	0.00	0.27
## 90	7/12/2016 0:00 0.40	258	0.00	0.00	0.27
## 91	7/13/2016 0:00 0.40	264	0.00	0.00	0.27
## 92	7/14/2016 0:00 0.40	250	0.00	0.00	0.27
## 93	7/15/2016 0:00 0.40	256	0.00	0.00	0.27
## 94	7/18/2016 0:00 0.40	248	0.00	0.00	0.28
## 95	7/19/2016 0:00 0.40	255	0.00	0.00	0.30
## 96	7/20/2016 0:00 0.40	254	0.00	0.00	0.30
## 97	7/21/2016 0:00 0.40	254	0.00	0.00	0.28
## 98	7/22/2016 0:00 0.40	249	0.00	0.00	0.05
## 99	7/25/2016 0:00 0.40	267	0.00	0.00	0.25
## 100	7/26/2016 0:00 0.40	268	0.00	0.00	0.27
## 101	7/27/2016 0:00 0.40	254	0.00	0.00	0.27
## 102	7/28/2016 0:00 0.40	254	0.00	0.00	0.27
## 103	7/29/2016 0:00 0.30	252	0.00	0.00	0.20
## 104	8/1/2016 0:00 0.40	247	0.00	0.00	0.27
## 105	8/2/2016 0:00 0.40	258	0.00	0.00	0.27
## 106	8/3/2016 0:00 0.40	266	0.00	0.00	0.27
## 107	8/4/2016 0:00 0.40	264	0.00	0.00	0.27
## 108	8/5/2016 0:00 0.40	257	0.00	0.00	0.27
## 109	8/8/2016 0:00 0.40	259	0.00	0.00	0.27
## 110	8/9/2016 0:00 0.40	252	0.00	0.00	0.27
## 111	8/10/2016 0:00 0.40	246	0.00	0.00	0.27
## 112	8/11/2016 0:00 0.40	237	0.00	0.00	0.27
## 113	8/12/2016 0:00 0.40	241	0.00	0.00	0.27
## 114	8/15/2016 0:00 0.40	243	0.00	0.00	0.27
## 115	8/16/2016 0:00 0.40	243	0.00	0.00	0.27
## 116	8/17/2016 0:00 0.40	250	0.00	0.00	0.27
## 117	8/18/2016 0:00 0.40	239	0.00	0.00	0.27
## 118	8/19/2016 0:00 0.40	245	0.00	0.00	0.25
## 119	8/22/2016 0:00 0.40	248	0.00	0.00	0.27
## 120	8/23/2016 0:00 0.40	254	0.00	0.00	0.27
## 121	8/24/2016 0:00 0.40	251	0.00	0.00	0.19
## 122	8/25/2016 0:00 0.40	257	0.00	0.00	0.27
## 123	8/26/2016 0:00 0.40	254	0.00	0.00	0.27
## 124	8/29/2016 0:00 0.40	258	0.00	0.00	0.27
## 125	8/30/2016 0:00 0.40	250	0.00	0.00	0.27
## 126	8/31/2016 0:00 0.30	244	0.00	0.00	0.25
## 127	9/1/2016 0:00 0.40	227	0.00	0.00	0.27
## 128	9/2/2016 0:00 0.40	224	0.00	0.00	0.27
## 129	9/6/2016 0:00 0.40	233	0.00	0.00	0.30
## 130	9/7/2016 0:00 0.40	244	0.00	0.00	0.28
## 131	9/8/2016 0:00 0.40	248	0.00	0.00	0.27
## 132	9/9/2016 0:00 0.40	228	0.00	0.00	0.27
## 133	9/12/2016 0:00 0.40	243	0.00	0.00	0.30
## 134	9/13/2016 0:00 0.40	229	0.00	0.00	0.27
## 135	9/14/2016 0:00 0.40	224	0.00	0.00	0.30
## 136	9/15/2016 0:00 0.40	233	0.00	0.00	0.26
## 137	9/16/2016 0:00 0.40	231	0.00	0.00	0.25
## 138	9/19/2016 0:00 0.40	230	0.00	0.00	0.27
## 139	9/20/2016 0:00 0.40	232	0.00	0.00	0.25
## 140	9/21/2016 0:00 0.40	221	0.00	0.00	0.30

## 141	9/22/2016 0:00 0.40	226	0.00	0.00	0.27
## 142	9/23/2016 0:00 0.40	222	0.00	0.00	0.05
## 143	9/26/2016 0:00 0.40	213	0.00	0.00	0.25
## 144	9/27/2016 0:00 0.40	186	0.00	0.00	0.25
## 145	9/28/2016 0:00 0.40	205	0.00	0.00	0.25
## 146	9/29/2016 0:00 0.40	197	0.00	0.00	0.25
## 147	9/30/2016 0:00 0.29	142	0.00	0.00	0.25
## 148	10/3/2016 0:00 0.40	193	0.00	0.00	0.25
## 149	10/4/2016 0:00 0.40	188	0.00	0.00	0.26
## 150	10/5/2016 0:00 0.40	176	0.00	0.00	0.26
## 151	10/6/2016 0:00 0.40	177	0.00	0.00	0.28
## 152	10/7/2016 0:00 0.41	176	0.00	0.00	0.26
## 153	10/11/2016 0:00 0.41	169	0.00	0.00	0.26
## 154	10/12/2016 0:00 0.41	178	0.00	0.00	0.26
## 155	10/13/2016 0:00 0.41	168	0.00	0.00	0.25
## 156	10/14/2016 0:00 0.41	163	0.00	0.00	0.30
## 157	10/17/2016 0:00 0.41	163	0.00	0.00	0.26
## 158	10/18/2016 0:00 0.41	168	0.00	0.00	0.26
## 159	10/19/2016 0:00 0.41	170	0.00	0.00	0.26
## 160	10/20/2016 0:00 0.41	176	0.00	0.00	0.26
## 161	10/21/2016 0:00 0.41	181	0.00	0.00	0.26
## 162	10/24/2016 0:00 0.41	177	0.00	0.00	0.05
## 163	10/25/2016 0:00 0.41	179	0.00	0.00	0.28
## 164	10/26/2016 0:00 0.41	163	0.00	0.00	0.26
## 165	10/27/2016 0:00 0.41	158	0.00	0.00	0.25
## 166	10/28/2016 0:00 0.41	163	0.00	0.00	0.28
## 167	10/31/2016 0:00 0.31	147	0.00	0.00	0.25
## 168	11/1/2016 0:00 0.41	157	0.00	0.00	0.30
## 169	11/2/2016 0:00 0.41	161	0.00	0.00	0.30
## 170	11/3/2016 0:00 0.41	159	0.00	0.00	0.28
## 171	11/4/2016 0:00 0.41	157	0.00	0.00	0.25
## 172	11/7/2016 0:00 0.41	166	0.00	0.00	0.30
## 173	11/8/2016 0:00 0.41	162	0.00	0.00	0.30
## 174	11/9/2016 0:00 0.41	172	0.00	0.00	0.26
## 175	11/10/2016 0:00 0.41	141	0.00	0.00	0.26
## 176	11/14/2016 0:00 0.41	167	0.00	0.00	0.28
## 177	11/15/2016 0:00 0.41	174	0.00	0.00	0.30
## 178	11/16/2016 0:00 0.41	180	0.00	0.00	0.30
## 179	11/17/2016 0:00 0.41	172	0.00	0.00	0.30
## 180	11/18/2016 0:00 0.41	178	0.00	0.00	0.30
## 181	11/21/2016 0:00 0.41	185	0.00	0.00	0.30
## 182	11/22/2016 0:00 0.41	177	0.00	0.00	0.30
## 183	11/23/2016 0:00 0.41	184	0.00	0.00	0.05
## 184	11/25/2016 0:00 0.41	182	0.00	0.00	0.25
## 185	11/28/2016 0:00 0.41	178	0.00	0.00	0.30
## 186	11/29/2016 0:00 0.41	181	0.00	0.00	0.30
## 187	11/30/2016 0:00 0.31	166	0.00	0.00	0.28
## 188	12/1/2016 0:00 0.41	173	0.00	0.00	0.25
## 189	12/2/2016 0:00 0.41	179	0.00	0.00	0.25
## 190	12/5/2016 0:00 0.41	185	0.00	0.00	0.30
## 191	12/6/2016 0:00 0.41	183	0.00	0.00	0.30
## 192	12/7/2016 0:00 0.41	181	0.00	0.00	0.30
## 193	12/8/2016 0:00 0.41	173	0.00	0.00	0.30
## 194	12/9/2016 0:00 0.41	171	0.00	0.00	0.30

## 195	12/12/2016 0:00 0.41	181	0.00	0.00	0.30
## 196	12/13/2016 0:00 0.41	176	0.00	0.00	0.30
## 197	12/14/2016 0:00 0.41	187	0.00	0.00	0.30
## 198	12/15/2016 0:00 0.66	170	0.00	0.00	0.41
## 199	12/16/2016 0:00 0.66	184	0.00	0.00	0.50
## 200	12/19/2016 0:00 0.66	171	0.00	0.00	0.50
## 201	12/20/2016 0:00 0.66	175	0.00	0.00	0.50
## 202	12/21/2016 0:00 0.66	169	0.00	0.00	0.50
## 203	12/22/2016 0:00 0.66	173	0.00	0.00	0.50
## 204	12/23/2016 0:00 0.66	167	0.00	0.00	0.15
## 205	12/27/2016 0:00 0.66	173	0.00	0.00	0.50
## 206	12/28/2016 0:00 0.66	172	0.00	0.00	0.50
## 207	12/29/2016 0:00 0.66	167	0.00	0.00	0.50
## 208	12/30/2016 0:00 0.55	122	0.00	0.00	0.45
## 209	1/3/2017 0:00 0.66	167	0.00	0.00	0.50
## 210	1/4/2017 0:00 0.66	188	0.00	0.00	0.50
## 211	1/5/2017 0:00 0.66	181	0.00	0.00	0.50
## 212	1/6/2017 0:00 0.66	191	0.00	0.00	0.50
## 213	1/9/2017 0:00 0.66	188	0.00	0.00	0.50
## 214	1/10/2017 0:00 0.66	197	0.00	0.00	0.50
## 215	1/11/2017 0:00 0.66	195	0.00	0.00	0.50
## 216	1/12/2017 0:00 0.66	200	0.00	0.00	0.50
## 217	1/13/2017 0:00 0.66	179	0.00	0.00	0.45
## 218	1/17/2017 0:00 0.66	183	0.00	0.00	0.50
## 219	1/18/2017 0:00 0.66	177	0.00	0.00	0.50
## 220	1/19/2017 0:00 0.66	177	0.00	0.00	0.45
## 221	1/20/2017 0:00 0.66	176	0.00	0.00	0.50
## 222	1/23/2017 0:00 0.66	185	0.00	0.00	0.50
## 223	1/24/2017 0:00 0.66	189	0.00	0.00	0.15
## 224	1/25/2017 0:00 0.66	194	0.00	0.00	0.50
## 225	1/26/2017 0:00 0.66	199	0.00	0.00	0.50
## 226	1/27/2017 0:00 0.66	194	0.00	0.00	0.45
## 227	1/30/2017 0:00 0.66	197	0.00	0.00	0.50
## 228	1/31/2017 0:00 0.56	201	0.00	0.00	0.50
## 229	2/1/2017 0:00 0.66	198	0.00	0.00	0.50
## 230	2/2/2017 0:00 0.66	202	0.00	0.00	0.53
## 231	2/3/2017 0:00 0.66	201	0.00	0.00	0.53
## 232	2/6/2017 0:00 0.66	215	0.00	0.00	0.53
## 233	2/7/2017 0:00 0.66	205	0.00	0.00	0.50
## 234	2/8/2017 0:00 0.66	210	0.00	0.00	0.53
## 235	2/9/2017 0:00 0.66	204	0.00	0.00	0.53
## 236	2/10/2017 0:00 0.66	216	0.00	0.00	0.50
## 237	2/13/2017 0:00 0.66	207	0.00	0.00	0.50
## 238	2/14/2017 0:00 0.66	204	0.00	0.00	0.50
## 239	2/15/2017 0:00 0.66	210	0.00	0.00	0.53
## 240	2/16/2017 0:00 0.66	220	0.00	0.00	0.52
## 241	2/17/2017 0:00 0.66	221	0.00	0.00	0.53
## 242	2/21/2017 0:00 0.66	215	0.00	0.00	0.53
## 243	2/22/2017 0:00 0.66	223	0.00	0.00	0.53
## 244	2/23/2017 0:00 0.66	227	0.00	0.00	0.53
## 245	2/24/2017 0:00 0.66	224	0.00	0.00	0.15
## 246	2/27/2017 0:00 0.66	226	0.00	0.00	0.50
## 247	2/28/2017 0:00 0.57	202	0.00	0.00	0.50
## 248	3/1/2017 0:00 0.66	210	0.00	0.00	0.53

## 249	3/2/2017 0:00 0.66	221	0.00	0.00	0.50
## 250	3/3/2017 0:00 0.66	211	0.00	0.00	0.50
## 251	3/6/2017 0:00 0.66	210	0.00	0.00	0.50
## 252	3/7/2017 0:00 0.66	205	0.00	0.00	0.53
## 253	3/8/2017 0:00 0.66	207	0.00	0.00	0.54
## 254	3/9/2017 0:00 0.66	207	0.00	0.00	0.55
## 255	3/10/2017 0:00 0.66	206	0.00	0.00	0.50
## 256	3/13/2017 0:00 0.66	205	0.00	0.00	0.50
## 257	3/14/2017 0:00 0.66	195	0.00	0.00	0.53
## 258	3/15/2017 0:00 0.66	221	0.00	0.00	0.50
## 259	3/16/2017 0:00 0.91	209	0.00	0.00	0.75
## 260	3/17/2017 0:00 0.91	209	0.00	0.00	0.75
## 261	3/20/2017 0:00 0.91	202	0.00	0.00	0.75
## 262	3/21/2017 0:00 0.91	208	0.00	0.00	0.75
## 263	3/22/2017 0:00 0.91	200	0.00	0.00	0.70
## 264	3/23/2017 0:00 0.91	196	0.00	0.00	0.75
## 265	3/24/2017 0:00 0.91	200	0.00	0.00	0.15
## 266	3/27/2017 0:00 0.91	189	0.00	0.00	0.75
## 267	3/28/2017 0:00 0.91	184	0.00	0.00	0.75
## 268	3/29/2017 0:00 0.91	174	0.00	0.00	0.65
## 269	3/30/2017 0:00 0.91	171	0.00	0.00	0.70
## 270	3/31/2017 0:00 0.82	167	0.00	0.00	0.70
## 271	4/3/2017 0:00 0.91	189	0.00	0.00	0.75
## 272	4/4/2017 0:00 0.91	193	0.00	0.00	0.75
## 273	4/5/2017 0:00 0.91	189	0.00	0.00	0.75
## 274	4/6/2017 0:00 0.91	192	0.00	0.00	0.75
## 275	4/7/2017 0:00 0.91	191	0.00	0.00	0.75
## 276	4/10/2017 0:00 0.91	187	0.00	0.00	0.75
## 277	4/11/2017 0:00 0.91	193	0.00	0.00	0.75
## 278	4/12/2017 0:00 0.91	190	0.00	0.00	0.75
## 279	4/13/2017 0:00 0.91	104	0.00	0.00	0.65
## 280	4/14/2017 0:00 0.91	97	0.00	0.00	0.65
## 281	4/17/2017 0:00 0.91	192	0.00	0.00	0.75
## 282	4/18/2017 0:00 0.91	193	0.00	0.00	0.75
## 283	4/19/2017 0:00 0.91	194	0.00	0.00	0.75
## 284	4/20/2017 0:00 0.91	197	0.00	0.00	0.75
## 285	4/21/2017 0:00 0.91	202	0.00	0.00	0.75
## 286	4/24/2017 0:00 0.91	202	0.00	0.00	0.15
## 287	4/25/2017 0:00 0.91	191	0.00	0.00	0.75
## 288	4/26/2017 0:00 0.91	188	0.00	0.00	0.78
## 289	4/27/2017 0:00 0.91	186	0.00	0.00	0.55
## 290	4/28/2017 0:00 0.83	169	0.00	0.00	0.79
## 291	5/1/2017 0:00 0.91	174	0.00	0.00	0.75
## 292	5/2/2017 0:00 0.91	195	0.00	0.00	0.80
## 293	5/3/2017 0:00 0.91	197	0.00	0.00	0.75
## 294	5/4/2017 0:00 0.91	199	0.00	0.00	0.78
## 295	5/5/2017 0:00 0.91	196	0.00	0.00	0.77
## 296	5/8/2017 0:00 0.91	197	0.00	0.00	0.80
## 297	5/9/2017 0:00 0.91	196	0.00	0.00	0.80
## 298	5/10/2017 0:00 0.91	198	0.00	0.00	0.80
## 299	5/11/2017 0:00 0.91	198	0.00	0.00	0.80
## 300	5/12/2017 0:00 0.91	199	0.00	0.00	0.78
## 301	5/15/2017 0:00 0.91	213	0.00	0.00	0.78
## 302	5/16/2017 0:00 0.91	209	0.00	0.00	0.75

## 303	5/17/2017 0:00 0.91	204	0.00	0.00	0.80
## 304	5/18/2017 0:00 0.91	196	0.00	0.00	0.80
## 305	5/19/2017 0:00 0.91	206	0.00	0.00	0.80
## 306	5/22/2017 0:00 0.91	207	0.00	0.00	0.78
## 307	5/23/2017 0:00 0.91	203	0.00	0.00	0.80
## 308	5/24/2017 0:00 0.91	202	0.00	0.00	0.15
## 309	5/25/2017 0:00 0.91	210	0.00	0.00	0.78
## 310	5/26/2017 0:00 0.91	198	0.00	0.00	0.80
## 311	5/30/2017 0:00 0.91	206	0.00	0.00	0.80
## 312	5/31/2017 0:00 0.83	197	0.00	0.00	0.75
## 313	6/1/2017 0:00 0.91	201	0.00	0.00	0.80
## 314	6/2/2017 0:00 0.91	215	0.00	0.00	0.80
## 315	6/5/2017 0:00 0.91	218	0.00	0.00	0.78
## 316	6/6/2017 0:00 0.91	211	0.00	0.00	0.78
## 317	6/7/2017 0:00 0.91	205	0.00	0.00	0.80
## 318	6/8/2017 0:00 0.91	205	0.00	0.00	0.80
## 319	6/9/2017 0:00 0.91	203	0.00	0.00	0.82
## 320	6/12/2017 0:00 0.91	201	0.00	0.00	0.70
## 321	6/13/2017 0:00 0.91	202	0.00	0.00	0.70
## 322	6/14/2017 0:00 0.91	197	0.00	0.00	0.80
## 323	6/15/2017 0:00 1.16	199	0.00	0.00	1.05
## 324	6/16/2017 0:00 1.16	197	0.00	0.00	1.05
## 325	6/19/2017 0:00 1.16	202	0.00	0.00	1.00
## 326	6/20/2017 0:00 1.16	212	0.00	0.00	1.00
## 327	6/21/2017 0:00 1.16	206	0.00	0.00	1.00
## 328	6/22/2017 0:00 1.16	201	0.00	0.00	1.00
## 329	6/23/2017 0:00 1.16	205	0.00	0.00	0.15
## 330	6/26/2017 0:00 1.16	201	0.00	0.00	1.00
## 331	6/27/2017 0:00 1.16	206	0.00	0.00	1.00
## 332	6/28/2017 0:00 1.16	194	0.00	0.00	1.00
## 333	6/29/2017 0:00 1.16	192	0.00	0.00	1.00
## 334	6/30/2017 0:00 1.06	152	0.00	0.00	0.90
## 335	7/3/2017 0:00 1.16	186	0.00	0.00	1.00
## 336	7/5/2017 0:00 1.16	208	0.00	0.00	1.00
## 337	7/6/2017 0:00 1.16	210	0.00	0.00	1.05
## 338	7/7/2017 0:00 1.16	206	0.00	0.00	1.05
## 339	7/10/2017 0:00 1.16	208	0.00	0.00	1.00
## 340	7/11/2017 0:00 1.16	214	0.00	0.00	1.03
## 341	7/12/2017 0:00 1.16	209	0.00	0.00	1.03
## 342	7/13/2017 0:00 1.16	202	0.00	0.00	1.04
## 343	7/14/2017 0:00 1.16	211	0.00	0.00	1.04
## 344	7/17/2017 0:00 1.16	212	0.00	0.00	1.05
## 345	7/18/2017 0:00 1.16	189	0.00	0.00	1.05
## 346	7/19/2017 0:00 1.16	203	0.00	0.00	1.02
## 347	7/20/2017 0:00 1.16	214	0.00	0.00	1.05
## 348	7/21/2017 0:00 1.16	213	0.00	0.00	1.02
## 349	7/24/2017 0:00 1.16	211	0.00	0.00	0.40
## 350	7/25/2017 0:00 1.16	219	0.00	0.00	1.00
## 351	7/26/2017 0:00 1.16	217	0.00	0.00	1.02
## 352	7/27/2017 0:00 1.16	219	0.00	0.00	1.02
## 353	7/28/2017 0:00 1.16	221	0.00	0.00	1.00
## 354	7/31/2017 0:00 1.07	212	0.00	0.00	1.00
## 355	8/1/2017 0:00 1.16	220	0.00	0.00	1.05
## 356	8/2/2017 0:00 1.16	229	0.00	0.00	1.04

## 357	8/3/2017 0:00 1.16	233	0.00	0.00	1.02
## 358	8/4/2017 0:00 1.16	225	0.00	0.00	1.05
## 359	8/7/2017 0:00 1.16	224	0.00	0.00	1.03
## 360	8/8/2017 0:00 1.16	223	0.00	0.00	1.03
## 361	8/9/2017 0:00 1.16	220	0.00	0.00	1.05
## 362	8/10/2017 0:00 1.16	221	0.00	0.00	1.05
## 363	8/11/2017 0:00 1.16	220	0.00	0.00	1.05
## 364	8/14/2017 0:00 1.16	220	0.00	0.00	1.00
## 365	8/15/2017 0:00 1.16	216	0.00	0.00	1.05
## 366	8/16/2017 0:00 1.16	226	0.00	0.00	1.05
## 367	8/17/2017 0:00 1.16	224	0.00	0.00	1.00
## 368	8/18/2017 0:00 1.16	212	0.00	0.00	1.02
## 369	8/21/2017 0:00 1.16	216	0.00	0.00	1.05
## 370	8/22/2017 0:00 1.16	212	0.00	0.00	1.00
## 371	8/23/2017 0:00 1.16	215	0.00	0.00	1.05
## 372	8/24/2017 0:00 1.16	215	0.00	0.00	0.75
## 373	8/25/2017 0:00 1.16	216	0.00	0.00	1.02
## 374	8/28/2017 0:00 1.16	209	0.00	0.00	1.05
## 375	8/29/2017 0:00 1.16	207	0.00	0.00	1.05
## 376	8/30/2017 0:00 1.16	215	0.00	0.00	1.05
## 377	8/31/2017 0:00 1.07	213	0.00	0.00	1.00
## 378	9/1/2017 0:00 1.16	213	0.00	0.00	1.05
## 379	9/5/2017 0:00 1.16	217	0.00	0.00	1.05
## 380	9/6/2017 0:00 1.16	215	0.00	0.00	1.05
## 381	9/7/2017 0:00 1.16	208	0.00	0.00	1.05
## 382	9/8/2017 0:00 1.16	210	0.00	0.00	1.05
## 383	9/11/2017 0:00 1.16	216	0.00	0.00	1.00
## 384	9/12/2017 0:00 1.16	212	0.00	0.00	1.05
## 385	9/13/2017 0:00 1.16	214	0.00	0.00	1.05
## 386	9/14/2017 0:00 1.16	196	0.00	0.00	1.04
## 387	9/15/2017 0:00 1.16	205	0.00	0.00	1.00
## 388	9/18/2017 0:00 1.16	213	0.00	0.00	1.10
## 389	9/19/2017 0:00 1.16	210	0.00	0.00	1.04
## 390	9/20/2017 0:00 1.16	212	0.00	0.00	1.00
## 391	9/21/2017 0:00 1.17	199	0.00	0.00	1.00
## 392	9/22/2017 0:00 1.16	217	0.00	0.00	0.30
## 393	9/25/2017 0:00 1.16	209	0.00	0.00	1.00
## 394	9/26/2017 0:00 1.16	203	0.00	0.00	1.03
## 395	9/27/2017 0:00 1.16	200	0.00	0.00	1.01
## 396	9/28/2017 0:00 1.16	211	0.00	0.00	1.01
## 397	9/29/2017 0:00 1.06	200	0.00	0.00	1.00
## 398	10/2/2017 0:00 1.16	205	0.00	0.00	1.00
## 399	10/3/2017 0:00 1.16	209	0.00	0.00	1.03
## 400	10/4/2017 0:00 1.16	208	0.00	0.00	1.03
## 401	10/5/2017 0:00 1.16	208	0.00	0.00	1.03
## 402	10/6/2017 0:00 1.16	210	0.00	0.00	1.00
## 403	10/10/2017 0:00 1.16	209	0.00	0.00	1.05
## 404	10/11/2017 0:00 1.16	207	0.00	0.00	1.05
## 405	10/12/2017 0:00 1.16	204	0.00	0.00	1.05
## 406	10/13/2017 0:00 1.16	205	0.00	0.00	1.05
## 407	10/16/2017 0:00 1.16	212	0.00	0.00	1.05
## 408	10/17/2017 0:00 1.16	210	0.00	0.00	1.05
## 409	10/18/2017 0:00 1.16	208	0.00	0.00	1.05
## 410	10/19/2017 0:00 1.16	204	0.00	0.00	1.05



## 411	10/20/2017 0:00	1.16	209	0.00	0.00	1.05
## 412	10/23/2017 0:00	1.16	212	0.00	0.00	1.03
## 413	10/24/2017 0:00	1.16	217	0.00	0.00	0.30
## 414	10/25/2017 0:00	1.16	219	0.00	0.00	1.05
## 415	10/26/2017 0:00	1.16	221	0.00	0.00	1.07
## 416	10/27/2017 0:00	1.16	216	0.00	0.00	1.02
## 417	10/30/2017 0:00	1.16	221	0.00	0.00	1.02
## 418	10/31/2017 0:00	1.07	215	0.00	0.00	1.00
## 419	11/1/2017 0:00	1.16	209	0.00	0.00	1.05
## 420	11/2/2017 0:00	1.16	217	0.00	0.00	1.05
## 421	11/3/2017 0:00	1.16	221	0.00	0.00	1.05
## 422	11/6/2017 0:00	1.16	220	0.00	0.00	1.04
## 423	11/7/2017 0:00	1.16	225	0.00	0.00	1.03
## 424	11/8/2017 0:00	1.16	228	0.00	0.00	1.05
## 425	11/9/2017 0:00	1.16	221	0.00	0.00	1.07
## 426	11/10/2017 0:00	1.16	210	0.00	0.00	1.05
## 427	11/13/2017 0:00	1.16	217	0.00	0.00	1.05
## 428	11/14/2017 0:00	1.16	212	0.00	0.00	1.09
## 429	11/15/2017 0:00	1.16	211	0.00	0.00	1.06
## 430	11/16/2017 0:00	1.16	208	0.00	0.00	1.05
## 431	11/17/2017 0:00	1.16	203	0.00	0.00	1.10
## 432	11/20/2017 0:00	1.16	209	0.00	0.00	1.10
## 433	11/21/2017 0:00	1.16	213	0.00	0.00	1.05
## 434	11/22/2017 0:00	1.16	201	0.00	0.00	1.05
## 435	11/24/2017 0:00	1.16	193	0.00	0.00	0.30
## 436	11/27/2017 0:00	1.16	211	0.00	0.00	1.10
## 437	11/28/2017 0:00	1.16	207	0.00	0.00	1.10
## 438	11/29/2017 0:00	1.16	211	0.00	0.00	1.10
## 439	11/30/2017 0:00	1.08	198	0.00	0.00	1.04
## 440	12/1/2017 0:00	1.16	216	0.00	0.00	1.05
## 441	12/4/2017 0:00	1.16	215	0.00	0.00	1.07
## 442	12/5/2017 0:00	1.16	215	0.00	0.00	1.07
## 443	12/6/2017 0:00	1.16	205	0.00	0.00	1.06
## 444	12/7/2017 0:00	1.16	201	0.00	0.00	1.06
## 445	12/8/2017 0:00	1.16	203	0.00	0.00	1.09
## 446	12/11/2017 0:00	1.16	211	0.00	0.00	1.09
## 447	12/12/2017 0:00	1.16	211	0.00	0.00	1.09
## 448	12/13/2017 0:00	1.16	214	0.00	0.00	1.09
## 449	12/14/2017 0:00	1.41	199	0.00	0.00	1.30
## 450	12/15/2017 0:00	1.41	204	0.00	0.00	1.25
## 451	12/18/2017 0:00	1.41	190	0.00	0.00	1.28
## 452	12/19/2017 0:00	1.42	202	0.00	0.00	1.28
## 453	12/20/2017 0:00	1.42	194	0.00	0.00	1.25
## 454	12/21/2017 0:00	1.42	202	0.00	0.00	1.25
## 455	12/22/2017 0:00	1.42	198	0.00	0.00	0.50
## 456	12/26/2017 0:00	1.42	210	0.00	0.00	1.30
## 457	12/27/2017 0:00	1.42	213	0.00	0.00	1.30
## 458	12/28/2017 0:00	1.42	198	0.00	0.00	1.30
## 459	12/29/2017 0:00	1.33	129	0.00	0.00	1.20
## 460	1/2/2018 0:00	1.42	189	0.00	0.00	1.30
## 461	1/3/2018 0:00	1.42	208	0.00	0.00	1.30
## 462	1/4/2018 0:00	1.42	204	0.00	0.00	1.30
## 463	1/5/2018 0:00	1.42	214	0.00	0.00	1.30
## 464	1/8/2018 0:00	1.42	206	0.00	0.00	1.30

## 465	1/9/2018 0:00 1.42	212	0.00	0.00	1.30
## 466	1/10/2018 0:00 1.42	211	0.00	0.00	1.30
## 467	1/11/2018 0:00 1.42	205	0.00	0.00	1.30
## 468	1/12/2018 0:00 1.42	197	0.00	0.00	1.30
## 469	1/16/2018 0:00 1.42	205	0.00	0.00	1.30
## 470	1/17/2018 0:00 1.42	210	0.00	0.00	1.30
## 471	1/18/2018 0:00 1.42	200	0.00	0.00	1.30
## 472	1/19/2018 0:00 1.42	196	0.00	0.00	1.30
## 473	1/22/2018 0:00 1.42	204	0.00	0.00	1.30
## 474	1/23/2018 0:00 1.42	204	0.00	0.00	1.30
## 475	1/24/2018 0:00 1.42	212	0.00	0.00	0.95
## 476	1/25/2018 0:00 1.42	198	0.00	0.00	1.30
## 477	1/26/2018 0:00 1.42	201	0.00	0.00	1.30
## 478	1/29/2018 0:00 1.42	210	0.00	0.00	1.30
## 479	1/30/2018 0:00 1.42	218	0.00	0.00	1.32
## 480	1/31/2018 0:00 1.34	204	0.00	0.00	1.25
## 481	2/1/2018 0:00 1.42	224	0.00	0.00	1.30
## 482	2/2/2018 0:00 1.42	218	0.00	0.00	1.30
## 483	2/5/2018 0:00 1.42	217	0.00	0.00	1.31
## 484	2/6/2018 0:00 1.42	209	0.00	0.00	1.28
## 485	2/7/2018 0:00 1.42	220	0.00	0.00	1.28
## 486	2/8/2018 0:00 1.42	218	0.00	0.00	1.30
## 487	2/9/2018 0:00 1.42	219	0.00	0.00	0.48
## 488	2/12/2018 0:00 1.42	221	0.00	0.00	1.35
## 489	2/13/2018 0:00 1.42	222	0.00	0.00	1.35
## 490	2/14/2018 0:00 1.42	218	0.00	0.00	1.25
## 491	2/15/2018 0:00 1.42	214	0.00	0.00	1.30
## 492	2/16/2018 0:00 1.42	210	0.00	0.00	1.30
## 493	2/20/2018 0:00 1.42	196	0.00	0.00	1.35
## 494	2/21/2018 0:00 1.42	200	0.00	0.00	1.30
## 495	2/22/2018 0:00 1.42	205	0.00	0.00	1.30
## 496	2/23/2018 0:00 1.42	216	0.00	0.00	0.65
## 497	2/26/2018 0:00 1.42	208	0.00	0.00	1.30
## 498	2/27/2018 0:00 1.42	214	0.00	0.00	1.30
## 499	2/28/2018 0:00 1.35	204	0.00	0.00	1.29
## 500	3/1/2018 0:00 1.42	210	0.00	0.00	1.30
## 501	3/2/2018 0:00 1.42	214	0.00	0.00	1.30
## 502	3/5/2018 0:00 1.42	214	0.00	0.00	1.30
## 503	3/6/2018 0:00 1.42	212	0.00	0.00	1.30
## 504	3/7/2018 0:00 1.42	212	0.00	0.00	1.25
## 505	3/8/2018 0:00 1.42	209	0.00	0.00	1.30
## 506	3/9/2018 0:00 1.42	192	0.00	0.00	1.30
## 507	3/12/2018 0:00 1.42	204	0.00	0.00	1.30
## 508	3/13/2018 0:00 1.42	188	0.00	0.00	1.30
## 509	3/14/2018 0:00 1.42	198	0.00	0.00	1.35
## 510	3/15/2018 0:00 1.42	171	0.00	0.00	1.30
## 511	3/16/2018 0:00 1.43	188	0.00	0.00	1.32
## 512	3/19/2018 0:00 1.43	174	0.00	0.00	1.35
## 513	3/20/2018 0:00 1.43	178	0.00	0.00	1.35
## 514	3/21/2018 0:00 1.43	184	0.00	0.00	1.35
## 515	3/22/2018 0:00 1.68	163	0.00	0.00	1.55
## 516	3/23/2018 0:00 1.68	158	0.00	0.00	0.70
## 517	3/26/2018 0:00 1.68	162	0.00	0.00	1.40
## 518	3/27/2018 0:00 1.68	168	0.00	0.00	1.58

## 519	3/28/2018 0:00	1.68	169	0.00	0.00	1.56
## 520	3/29/2018 0:00	1.68	102	1.75	1.50	1.40
## 521	4/2/2018 0:00	1.68	160	1.75	1.50	1.40
## 522	4/3/2018 0:00	1.68	177	1.75	1.50	1.22
## 523	4/4/2018 0:00	1.69	176	1.75	1.50	1.55
## 524	4/5/2018 0:00	1.69	173	1.75	1.50	1.40
## 525	4/6/2018 0:00	1.69	154	1.75	1.50	1.15
## 526	4/9/2018 0:00	1.69	153	1.75	1.50	1.15
## 527	4/10/2018 0:00	1.69	155	1.75	1.50	1.15
## 528	4/11/2018 0:00	1.69	156	1.75	1.50	1.40
## 529	4/12/2018 0:00	1.69	160	1.75	1.50	1.58
## 530	4/13/2018 0:00	1.69	144	1.75	1.50	1.40
## 531	4/16/2018 0:00	1.69	166	1.75	1.50	1.60
## 532	4/17/2018 0:00	1.69	143	1.75	1.50	0.90
## 533	4/18/2018 0:00	1.69	144	1.75	1.50	1.40
## 534	4/19/2018 0:00	1.69	148	1.75	1.50	1.40
## 535	4/20/2018 0:00	1.69	154	1.75	1.50	1.15
## 536	4/23/2018 0:00	1.69	152	1.75	1.50	0.90
## 537	4/24/2018 0:00	1.69	149	1.75	1.50	0.70
## 538	4/25/2018 0:00	1.69	146	1.75	1.50	1.60
## 539	4/26/2018 0:00	1.69	155	1.75	1.50	1.40
## 540	4/27/2018 0:00	1.69	158	1.75	1.50	1.40
## 541	4/30/2018 0:00	1.69	163	1.75	1.50	1.56
## 542	5/1/2018 0:00	1.69	151	1.75	1.50	1.40
## 543	5/2/2018 0:00	1.69	161	1.75	1.50	1.40
## 544	5/3/2018 0:00	1.69	162	1.75	1.50	1.40
## 545	5/4/2018 0:00	1.70	160	1.75	1.50	1.40
## 546	5/7/2018 0:00	1.70	173	1.75	1.50	1.40
## 547	5/8/2018 0:00	1.70	169	1.75	1.50	1.40
## 548	5/9/2018 0:00	1.70	169	1.75	1.50	1.40
## 549	5/10/2018 0:00	1.70	173	1.75	1.50	1.40
## 550	5/11/2018 0:00	1.70	171	1.75	1.50	1.40
## 551	5/14/2018 0:00	1.70	161	1.75	1.50	1.40
## 552	5/15/2018 0:00	1.70	160	1.75	1.50	1.40
## 553	5/16/2018 0:00	1.70	160	1.75	1.50	1.40
## 554	5/17/2018 0:00	1.70	157	1.75	1.50	1.40
## 555	5/18/2018 0:00	1.70	153	1.75	1.50	1.40
## 556	5/21/2018 0:00	1.70	160	1.75	1.50	1.40
## 557	5/22/2018 0:00	1.70	167	1.75	1.50	1.60
## 558	5/23/2018 0:00	1.70	167	1.75	1.50	1.63
## 559	5/24/2018 0:00	1.70	168	1.75	1.50	0.70
## 560	5/25/2018 0:00	1.70	167	1.75	1.50	1.40
## 561	5/29/2018 0:00	1.70	163	1.75	1.50	1.58
## 562	5/30/2018 0:00	1.70	153	1.75	1.50	1.55
## 563	5/31/2018 0:00	1.70	155	1.75	1.50	1.40
## 564	6/1/2018 0:00	1.70	162	1.75	1.50	1.40
## 565	6/4/2018 0:00	1.70	168	1.75	1.50	1.40
## 566	6/5/2018 0:00	1.70	168	1.75	1.50	1.40
## 567	6/6/2018 0:00	1.70	176	1.75	1.50	1.55
## 568	6/7/2018 0:00	1.70	162	1.75	1.50	1.35
## 569	6/8/2018 0:00	1.70	165	1.75	1.50	1.55
## 570	6/11/2018 0:00	1.70	146	1.75	1.50	1.45
## 571	6/12/2018 0:00	1.70	166	1.75	1.50	1.40
## 572	6/13/2018 0:00	1.70	163	1.75	1.50	1.50

## 573	6/14/2018 0:00	1.90	163	2.00	1.75	1.60
## 574	6/15/2018 0:00	1.90	148	2.00	1.75	1.60
## 575	6/18/2018 0:00	1.90	135	2.00	1.75	1.60
## 576	6/19/2018 0:00	1.90	135	2.00	1.75	1.60
## 577	6/20/2018 0:00	1.91	145	2.00	1.75	1.75
## 578	6/21/2018 0:00	1.91	157	2.00	1.75	1.80
## 579	6/22/2018 0:00	1.91	161	2.00	1.75	0.85
## 580	6/25/2018 0:00	1.91	156	2.00	1.75	1.80
## 581	6/26/2018 0:00	1.91	158	2.00	1.75	1.79
## 582	6/27/2018 0:00	1.91	162	2.00	1.75	1.75
## 583	6/28/2018 0:00	1.91	159	2.00	1.75	1.83
## 584	6/29/2018 0:00	1.90	152	2.00	1.75	1.75
## 585	7/2/2018 0:00	1.91	155	2.00	1.75	1.60
## 586	7/3/2018 0:00	1.91	165	2.00	1.75	1.79
## 587	7/5/2018 0:00	1.91	159	2.00	1.75	1.79
## 588	7/6/2018 0:00	1.91	157	2.00	1.75	1.75
## 589	7/9/2018 0:00	1.91	159	2.00	1.75	1.80
## 590	7/10/2018 0:00	1.91	167	2.00	1.75	1.79
## 591	7/11/2018 0:00	1.91	163	2.00	1.75	1.79
## 592	7/12/2018 0:00	1.91	167	2.00	1.75	1.65
## 593	7/13/2018 0:00	1.91	156	2.00	1.75	1.60
## 594	7/16/2018 0:00	1.91	160	2.00	1.75	1.60
## 595	7/17/2018 0:00	1.91	157	2.00	1.75	1.60
## 596	7/18/2018 0:00	1.91	168	2.00	1.75	1.70
## 597	7/19/2018 0:00	1.91	161	2.00	1.75	1.60
## 598	7/20/2018 0:00	1.91	162	2.00	1.75	1.70
## 599	7/23/2018 0:00	1.91	162	2.00	1.75	1.60
## 600	7/24/2018 0:00	1.91	164	2.00	1.75	0.85
## 601	7/25/2018 0:00	1.91	164	2.00	1.75	1.80
## 602	7/26/2018 0:00	1.91	157	2.00	1.75	1.74
## 603	7/27/2018 0:00	1.91	162	2.00	1.75	1.80
## 604	7/30/2018 0:00	1.91	161	2.00	1.75	1.60
## 605	7/31/2018 0:00	1.90	151	2.00	1.75	1.60
## 606	8/1/2018 0:00	1.90	159	2.00	1.75	1.75
## 607	8/2/2018 0:00	1.91	161	2.00	1.75	1.79
## 608	8/3/2018 0:00	1.90	164	2.00	1.75	1.60
## 609	8/6/2018 0:00	1.91	167	2.00	1.75	1.60
## 610	8/7/2018 0:00	1.91	160	2.00	1.75	1.60
## 611	8/8/2018 0:00	1.91	161	2.00	1.75	1.75
## 612	8/9/2018 0:00	1.91	155	2.00	1.75	1.60
## 613	8/10/2018 0:00	1.91	166	2.00	1.75	1.75
## 614	8/13/2018 0:00	1.91	151	2.00	1.75	1.60
## 615	8/14/2018 0:00	1.91	135	2.00	1.75	1.60
## 616	8/15/2018 0:00	1.91	141	2.00	1.75	1.60
## 617	8/16/2018 0:00	1.91	134	2.00	1.75	1.75
## 618	8/17/2018 0:00	1.91	127	2.00	1.75	1.60
## 619	8/20/2018 0:00	1.91	126	2.00	1.75	1.60
## 620	8/21/2018 0:00	1.91	130	2.00	1.75	1.60
## 621	8/22/2018 0:00	1.91	138	2.00	1.75	1.60
## 622	8/23/2018 0:00	1.91	135	2.00	1.75	1.60
## 623	8/24/2018 0:00	1.91	131	2.00	1.75	1.60
## 624	8/27/2018 0:00	1.91	133	2.00	1.75	1.60
## 625	8/28/2018 0:00	1.91	137	2.00	1.75	1.60
## 626	8/29/2018 0:00	1.91	133	2.00	1.75	1.60

## 627	8/30/2018 0:00	1.91	137	2.00	1.75	1.60
## 628	8/31/2018 0:00	1.91	146	2.00	1.75	1.60
## 629	9/4/2018 0:00	1.91	137	2.00	1.75	1.60
## 630	9/5/2018 0:00	1.91	147	2.00	1.75	1.80
## 631	9/6/2018 0:00	1.91	142	2.00	1.75	1.60
## 632	9/7/2018 0:00	1.91	144	2.00	1.75	1.60
## 633	9/10/2018 0:00	1.91	139	2.00	1.75	1.60
## 634	9/11/2018 0:00	1.91	147	2.00	1.75	1.60
## 635	9/12/2018 0:00	1.92	146	2.00	1.75	1.60
## 636	9/13/2018 0:00	1.91	140	2.00	1.75	1.80
## 637	9/14/2018 0:00	1.91	132	2.00	1.75	1.60
## 638	9/17/2018 0:00	1.91	118	2.00	1.75	1.60
## 639	9/18/2018 0:00	1.91	125	2.00	1.75	1.60
## 640	9/19/2018 0:00	1.92	133	2.00	1.75	1.72
## 641	9/20/2018 0:00	1.92	137	2.00	1.75	1.60
## 642	9/21/2018 0:00	1.92	138	2.00	1.75	1.60
## 643	9/24/2018 0:00	1.92	142	2.00	1.75	1.70
## 644	9/25/2018 0:00	1.92	150	2.25	2.00	1.60
## 645	9/26/2018 0:00	1.92	144	2.25	2.00	1.60
## 646	9/27/2018 0:00	2.17	144	2.25	2.00	1.85
## 647	9/28/2018 0:00	2.17	145	2.25	2.00	1.85
## 648	10/1/2018 0:00	2.17	131	2.25	2.00	1.85
## 649	10/2/2018 0:00	2.17	133	2.25	2.00	1.85
## 650	10/3/2018 0:00	2.17	133	2.25	2.00	1.85
## 651	10/4/2018 0:00	2.18	132	2.25	2.00	1.85
## 652	10/5/2018 0:00	2.18	123	2.25	2.00	1.85
## 653	10/9/2018 0:00	2.18	127	2.25	2.00	1.40
## 654	10/10/2018 0:00	2.18	133	2.25	2.00	1.85
## 655	10/11/2018 0:00	2.18	135	2.25	2.00	1.85
## 656	10/12/2018 0:00	2.18	129	2.25	2.00	1.85
## 657	10/15/2018 0:00	2.18	119	2.25	2.00	1.80
## 658	10/16/2018 0:00	2.18	120	2.25	2.00	1.85
## 659	10/17/2018 0:00	2.18	125	2.25	2.00	1.85
## 660	10/18/2018 0:00	2.18	123	2.25	2.00	1.80
## 661	10/19/2018 0:00	2.18	121	2.25	2.00	1.80
## 662	10/22/2018 0:00	2.18	127	2.25	2.00	1.85
## 663	10/23/2018 0:00	2.18	132	2.25	2.00	1.85
## 664	10/24/2018 0:00	2.18	137	2.25	2.00	2.05
## 665	10/25/2018 0:00	2.19	135	2.25	2.00	1.85
## 666	10/26/2018 0:00	2.19	140	2.25	2.00	1.95
## 667	10/29/2018 0:00	2.19	138	2.25	2.00	1.85
## 668	10/30/2018 0:00	2.19	137	2.25	2.00	2.05
## 669	10/31/2018 0:00	2.19	135	2.25	2.00	1.85
## 670	11/1/2018 0:00	2.19	140	2.25	2.00	1.85
## 671	11/2/2018 0:00	2.19	154	2.25	2.00	2.05
## 672	11/5/2018 0:00	2.19	148	2.25	2.00	1.85
## 673	11/6/2018 0:00	2.19	149	2.25	2.00	1.85
## 674	11/7/2018 0:00	2.19	150	2.25	2.00	2.05
## 675	11/8/2018 0:00	2.19	137	2.25	2.00	1.85
## 676	11/9/2018 0:00	2.19	137	2.25	2.00	2.07
## 677	11/13/2018 0:00	2.19	126	2.25	2.00	1.40
## 678	11/14/2018 0:00	2.19	138	2.25	2.00	2.05
## 679	11/15/2018 0:00	2.19	131	2.25	2.00	1.85
## 680	11/16/2018 0:00	2.19	137	2.25	2.00	1.85

## 681	11/19/2018 0:00	2.19	148	2.25	2.00	1.85
## 682	11/20/2018 0:00	2.19	140	2.25	2.00	1.85
## 683	11/21/2018 0:00	2.19	124	2.25	2.00	2.08
## 684	11/23/2018 0:00	2.19	129	2.25	2.00	2.10
## 685	11/26/2018 0:00	2.19	142	2.25	2.00	2.08
## 686	11/27/2018 0:00	2.19	132	2.25	2.00	2.08
## 687	11/28/2018 0:00	2.19	132	2.25	2.00	2.03
## 688	11/29/2018 0:00	2.19	134	2.25	2.00	2.08
## 689	11/30/2018 0:00	2.19	146	2.25	2.00	2.08
## 690	12/3/2018 0:00	2.19	149	2.25	2.00	2.08
## 691	12/4/2018 0:00	2.19	120	2.25	2.00	1.53
## 692	12/6/2018 0:00	2.31	447	2.25	2.00	2.10
## 693	12/7/2018 0:00	2.28	432	2.25	2.00	2.10
## 694	12/10/2018 0:00	2.20	425	2.25	2.00	2.11
## 695	12/11/2018 0:00	2.17	435	2.25	2.00	2.11
## 696	12/12/2018 0:00	2.17	424	2.25	2.00	2.12
## 697	12/13/2018 0:00	2.18	426	2.25	2.00	2.13
## 698	12/14/2018 0:00	2.19	425	2.25	2.00	2.14
## 699	12/17/2018 0:00	2.28	428	2.25	2.00	2.20
## 700	12/18/2018 0:00	2.30	421	2.25	2.00	2.05
## 701	12/19/2018 0:00	2.29	424	2.25	2.00	2.10
## 702	12/20/2018 0:00	2.40	418	2.50	2.25	2.30
## 703	12/21/2018 0:00	2.39	394	2.50	2.25	2.31
## 704	12/24/2018 0:00	2.41	385	2.50	2.25	2.35
## 705	12/26/2018 0:00	2.43	403	2.50	2.25	2.25
## 706	12/27/2018 0:00	2.43	390	2.50	2.25	2.30
## 707	12/28/2018 0:00	2.45	392	2.50	2.25	2.25
## 708	12/31/2018 0:00	2.95	409	2.50	2.25	2.30
## 709	1/2/2019 0:00	3.10	452	2.50	2.25	2.30
## 710	1/3/2019 0:00	2.70	444	2.50	2.25	2.30
## 711	1/4/2019 0:00	2.43	449	2.50	2.25	2.30
## 712	1/7/2019 0:00	2.38	450	2.50	2.25	2.32
## 713	1/8/2019 0:00	2.40	451	2.50	2.25	2.34
## 714	1/9/2019 0:00	2.44	457	2.50	2.25	2.30
## 715	1/10/2019 0:00	2.41	453	2.50	2.25	2.34
## 716	1/11/2019 0:00	2.38	456	2.50	2.25	2.33
## 717	1/14/2019 0:00	2.38	447	2.50	2.25	2.31
## 718	1/15/2019 0:00	2.41	470	2.50	2.25	2.35
## 719	1/16/2019 0:00	2.37	473	2.50	2.25	2.32
## 720	1/17/2019 0:00	2.37	461	2.50	2.25	2.32
## 721	1/18/2019 0:00	2.37	455	2.50	2.25	2.32
## 722	1/22/2019 0:00	2.37	459	2.50	2.25	2.32
## 723	1/23/2019 0:00	2.38	456	2.50	2.25	2.32
## 724	1/24/2019 0:00	2.40	459	2.50	2.25	2.32
## 725	1/25/2019 0:00	2.38	459	2.50	2.25	2.33
## 726	1/28/2019 0:00	2.37	458	2.50	2.25	2.30
## 727	1/29/2019 0:00	2.37	457	2.50	2.25	2.30
## 728	1/30/2019 0:00	2.36	451	2.50	2.25	2.32
## 729	1/31/2019 0:00	2.55	484	2.50	2.25	2.30
## 730	2/1/2019 0:00	2.44	494	2.50	2.25	2.30
## 731	2/4/2019 0:00	2.38	470	2.50	2.25	2.30
## 732	2/5/2019 0:00	2.37	464	2.50	2.25	2.32
## 733	2/6/2019 0:00	2.35	469	2.50	2.25	2.30
## 734	2/7/2019 0:00	2.36	464	2.50	2.25	2.31

## 735	2/8/2019 0:00	2.35	454	2.50	2.25	2.30
## 736	2/11/2019 0:00	2.40	454	2.50	2.25	2.32
## 737	2/12/2019 0:00	2.36	465	2.50	2.25	2.30
## 738	2/13/2019 0:00	2.36	459	2.50	2.25	2.31
## 739	2/14/2019 0:00	2.36	458	2.50	2.25	2.32
## 740	2/15/2019 0:00	2.41	461	2.50	2.25	2.36
## 741	2/19/2019 0:00	2.37	471	2.50	2.25	2.33
## 742	2/20/2019 0:00	2.37	463	2.50	2.25	2.32
## 743	2/21/2019 0:00	2.37	463	2.50	2.25	2.31
## 744	2/22/2019 0:00	2.37	463	2.50	2.25	2.32
## 745	2/25/2019 0:00	2.37	456	2.50	2.25	2.32
## 746	2/26/2019 0:00	2.37	452	2.50	2.25	2.32
## 747	2/27/2019 0:00	2.37	454	2.50	2.25	2.31
## 748	2/28/2019 0:00	2.55	462	2.50	2.25	2.30
## 749	3/1/2019 0:00	2.36	468	2.50	2.25	2.31
## 750	3/4/2019 0:00	2.36	463	2.50	2.25	2.31
## 751	3/5/2019 0:00	2.36	467	2.50	2.25	2.30
## 752	3/6/2019 0:00	2.36	469	2.50	2.25	2.30
## 753	3/7/2019 0:00	2.37	470	2.50	2.25	2.32
## 754	3/8/2019 0:00	2.36	468	2.50	2.25	2.30
## 755	3/11/2019 0:00	2.36	470	2.50	2.25	2.33
## 756	3/12/2019 0:00	2.37	471	2.50	2.25	2.32
## 757	3/13/2019 0:00	2.38	459	2.50	2.25	2.30
## 758	3/14/2019 0:00	2.39	448	2.50	2.25	2.34
## 759	3/15/2019 0:00	2.43	456	2.50	2.25	2.38
## 760	3/18/2019 0:00	2.38	450	2.50	2.25	2.33
## 761	3/19/2019 0:00	2.40	448	2.50	2.25	2.35
## 762	3/20/2019 0:00	2.46	438	2.50	2.25	2.33
## 763	3/21/2019 0:00	2.43	435	2.50	2.25	2.35
## 764	3/22/2019 0:00	2.38	418	2.50	2.25	2.33
## 765	3/25/2019 0:00	2.37	426	2.50	2.25	2.31
## 766	3/26/2019 0:00	2.37	410	2.50	2.25	2.32
## 767	3/27/2019 0:00	2.38	405	2.50	2.25	2.32
## 768	3/28/2019 0:00	2.42	401	2.50	2.25	2.29
## 769	3/29/2019 0:00	2.58	387	2.50	2.25	2.35
## 770	4/1/2019 0:00	2.41	440	2.50	2.25	2.36
## 771	4/2/2019 0:00	2.43	442	2.50	2.25	2.38
## 772	4/3/2019 0:00	2.43	444	2.50	2.25	2.38
## 773	4/4/2019 0:00	2.43	455	2.50	2.25	2.38
## 774	4/5/2019 0:00	2.43	453	2.50	2.25	2.35
## 775	4/8/2019 0:00	2.43	455	2.50	2.25	2.35
## 776	4/9/2019 0:00	2.42	463	2.50	2.25	2.32
## 777	4/10/2019 0:00	2.42	459	2.50	2.25	2.35
## 778	4/11/2019 0:00	2.40	467	2.50	2.25	2.35
## 779	4/12/2019 0:00	2.40	457	2.50	2.25	2.36
## 780	4/15/2019 0:00	2.43	462	2.50	2.25	2.39
## 781	4/16/2019 0:00	2.43	466	2.50	2.25	2.36
## 782	4/17/2019 0:00	2.47	451	2.50	2.25	2.40
## 783	4/18/2019 0:00	2.46	446	2.50	2.25	2.43
## 784	4/19/2019 0:00	2.44	59	2.50	2.25	2.37
## 785	4/22/2019 0:00	2.44	54	2.50	2.25	2.37
## 786	4/23/2019 0:00	2.44	53	2.50	2.25	2.37
## 787	4/24/2019 0:00	2.44	59	2.50	2.25	2.37
## 788	4/25/2019 0:00	2.44	65	2.50	2.25	2.37

## 789	4/26/2019 0:00	2.44	73	2.50	2.25	2.37
## 790	4/29/2019 0:00	2.45	60	2.50	2.25	2.40
## 791	4/30/2019 0:00	2.45	68	2.50	2.25	2.35
## 792	5/1/2019 0:00	2.45	77	2.50	2.25	2.37
## 793	5/2/2019 0:00	2.41	69	2.50	2.25	2.33
## 794	5/3/2019 0:00	2.40	74	2.50	2.25	2.32
## 795	5/6/2019 0:00	2.40	69	2.50	2.25	2.30
## 796	5/7/2019 0:00	2.40	64	2.50	2.25	2.33
## 797	5/8/2019 0:00	2.39	70	2.50	2.25	2.33
## 798	5/9/2019 0:00	2.38	73	2.50	2.25	2.33
## 799	5/10/2019 0:00	2.38	71	2.50	2.25	2.33
## 800	5/13/2019 0:00	2.38	67	2.50	2.25	2.30
## 801	5/14/2019 0:00	2.38	64	2.50	2.25	2.33
## 802	5/15/2019 0:00	2.40	62	2.50	2.25	2.33
## 803	5/16/2019 0:00	2.39	61	2.50	2.25	2.33
## 804	5/17/2019 0:00	2.39	67	2.50	2.25	2.33
## 805	5/20/2019 0:00	2.39	56	2.50	2.25	2.33
## 806	5/21/2019 0:00	2.39	64	2.50	2.25	2.33
## 807	5/22/2019 0:00	2.38	67	2.50	2.25	2.33
## 808	5/23/2019 0:00	2.38	71	2.50	2.25	2.33
## 809	5/24/2019 0:00	2.38	66	2.50	2.25	2.33
## 810	5/28/2019 0:00	2.39	64	2.50	2.25	2.30
## 811	5/29/2019 0:00	2.39	58	2.50	2.25	2.27
## 812	5/30/2019 0:00	2.39	60	2.50	2.25	2.33
## 813	5/31/2019 0:00	2.40	65	2.50	2.25	2.30
## 814	6/3/2019 0:00	2.38	76	2.50	2.25	2.33
## 815	6/4/2019 0:00	2.38	71	2.50	2.25	2.30
## 816	6/5/2019 0:00	2.38	66	2.50	2.25	2.33
## 817	6/6/2019 0:00	2.37	71	2.50	2.25	2.33
## 818	6/7/2019 0:00	2.37	68	2.50	2.25	2.30
## 819	6/10/2019 0:00	2.37	62	2.50	2.25	2.33
## 820	6/11/2019 0:00	2.37	66	2.50	2.25	2.33
## 821	6/12/2019 0:00	2.37	69	2.50	2.25	2.30
## 822	6/13/2019 0:00	2.37	64	2.50	2.25	2.27
## 823	6/14/2019 0:00	2.36	63	2.50	2.25	2.30
## 824	6/17/2019 0:00	2.38	55	2.50	2.25	2.27
## 825	6/18/2019 0:00	2.37	59	2.50	2.25	2.33
## 826	6/19/2019 0:00	2.37	60	2.50	2.25	2.30
## 827	6/20/2019 0:00	2.37	61	2.50	2.25	2.33
## 828	6/21/2019 0:00	2.38	65	2.50	2.25	2.33
## 829	6/24/2019 0:00	2.38	63	2.50	2.25	2.33
## 830	6/25/2019 0:00	2.38	70	2.50	2.25	2.33
## 831	6/26/2019 0:00	2.38	70	2.50	2.25	2.33
## 832	6/27/2019 0:00	2.38	76	2.50	2.25	2.33
## 833	6/28/2019 0:00	2.40	73	2.50	2.25	2.27
## 834	7/1/2019 0:00	2.39	73	2.50	2.25	2.30
## 835	7/2/2019 0:00	2.40	71	2.50	2.25	2.32
## 836	7/3/2019 0:00	2.41	75	2.50	2.25	2.33
## 837	7/5/2019 0:00	2.42	72	2.50	2.25	2.31
## 838	7/8/2019 0:00	2.41	76	2.50	2.25	2.33
## 839	7/9/2019 0:00	2.41	75	2.50	2.25	2.33
## 840	7/10/2019 0:00	2.41	78	2.50	2.25	2.33
## 841	7/11/2019 0:00	2.40	77	2.50	2.25	2.30
## 842	7/12/2019 0:00	2.38	69	2.50	2.25	2.27



## 843	7/15/2019 0:00	2.40	63	2.50	2.25	2.33
## 844	7/16/2019 0:00	2.41	64	2.50	2.25	2.30
## 845	7/17/2019 0:00	2.41	62	2.50	2.25	2.30
## 846	7/18/2019 0:00	2.41	55	2.50	2.25	2.30
## 847	7/19/2019 0:00	2.41	58	2.50	2.25	2.30
## 848	7/22/2019 0:00	2.40	60	2.50	2.25	2.33
## 849	7/23/2019 0:00	2.40	60	2.50	2.25	2.30
## 850	7/24/2019 0:00	2.40	65	2.50	2.25	2.33
## 851	7/25/2019 0:00	2.40	69	2.50	2.25	2.32
## 852	7/26/2019 0:00	2.40	78	2.50	2.25	2.33
## 853	7/29/2019 0:00	2.40	77	2.50	2.25	2.33
## 854	7/30/2019 0:00	2.39	72	2.50	2.25	2.33
## 855	7/31/2019 0:00	2.40	70	2.50	2.25	2.30
## 856	8/1/2019 0:00	2.14	81	2.25	2.00	2.05
## 857	8/2/2019 0:00	2.14	74	2.25	2.00	2.08
## 858	8/5/2019 0:00	2.13	68	2.25	2.00	2.08
## 859	8/6/2019 0:00	2.13	65	2.25	2.00	2.08
## 860	8/7/2019 0:00	2.12	66	2.25	2.00	2.08
## 861	8/8/2019 0:00	2.12	62	2.25	2.00	2.08
## 862	8/9/2019 0:00	2.12	69	2.25	2.00	2.05
## 863	8/12/2019 0:00	2.12	68	2.25	2.00	2.07
## 864	8/13/2019 0:00	2.12	66	2.25	2.00	2.07
## 865	8/14/2019 0:00	2.12	60	2.25	2.00	2.07
## 866	8/15/2019 0:00	2.13	61	2.25	2.00	2.07
## 867	8/16/2019 0:00	2.13	62	2.25	2.00	2.05
## 868	8/19/2019 0:00	2.13	56	2.25	2.00	2.08
## 869	8/20/2019 0:00	2.13	55	2.25	2.00	2.08
## 870	8/21/2019 0:00	2.12	65	2.25	2.00	2.08
## 871	8/22/2019 0:00	2.12	65	2.25	2.00	2.07
## 872	8/23/2019 0:00	2.12	68	2.25	2.00	2.05
## 873	8/26/2019 0:00	2.12	64	2.25	2.00	2.05
## 874	8/27/2019 0:00	2.12	62	2.25	2.00	2.07
## 875	8/28/2019 0:00	2.12	62	2.25	2.00	2.05
## 876	8/29/2019 0:00	2.12	62	2.25	2.00	2.07
## 877	8/30/2019 0:00	2.13	66	2.25	2.00	2.01
## 878	9/3/2019 0:00	2.13	71	2.25	2.00	2.08
## 879	9/4/2019 0:00	2.13	72	2.25	2.00	2.08
## 880	9/5/2019 0:00	2.13	65	2.25	2.00	2.08
## 881	9/6/2019 0:00	2.12	69	2.25	2.00	2.07
## 882	9/9/2019 0:00	2.13	64	2.25	2.00	2.07
## 883	9/10/2019 0:00	2.13	63	2.25	2.00	2.08
## 884	9/11/2019 0:00	2.13	61	2.25	2.00	2.05
## 885	9/12/2019 0:00	2.13	60	2.25	2.00	2.08
## 886	9/13/2019 0:00	2.14	53	2.25	2.00	2.08
## 887	9/16/2019 0:00	2.25	46	2.25	2.00	2.10
## 888	9/17/2019 0:00	2.30	61	2.25	2.00	2.05
## 889	9/18/2019 0:00	2.25	58	2.25	2.00	2.08
## 890	9/19/2019 0:00	1.90	59	2.00	1.75	1.75
## 891	9/20/2019 0:00	1.90	65	2.00	1.75	1.78
## 892	9/23/2019 0:00	1.90	74	2.00	1.75	1.78
## 893	9/24/2019 0:00	1.90	71	2.00	1.75	1.78
## 894	9/25/2019 0:00	1.90	77	2.00	1.75	1.75
## 895	9/26/2019 0:00	1.85	89	2.00	1.75	1.75
## 896	9/27/2019 0:00	1.83	85	2.00	1.75	1.77

## 897	9/30/2019 0:00	1.90	59	2.00	1.75	1.78
## 898	10/1/2019 0:00	1.88	75	2.00	1.75	1.75
## 899	10/2/2019 0:00	1.85	76	2.00	1.75	1.75
## 900	10/3/2019 0:00	1.83	80	2.00	1.75	1.75
## 901	10/4/2019 0:00	1.82	80	2.00	1.75	1.76
## 902	10/7/2019 0:00	1.82	76	2.00	1.75	1.75
## 903	10/8/2019 0:00	1.82	69	2.00	1.75	1.75
## 904	10/9/2019 0:00	1.82	66	2.00	1.75	1.75
## 905	10/10/2019 0:00	1.82	61	2.00	1.75	1.75
## 906	10/11/2019 0:00	1.82	60	2.00	1.75	1.75
## 907	10/15/2019 0:00	1.90	69	2.00	1.75	1.78
## 908	10/16/2019 0:00	1.90	76	2.00	1.75	1.78
## 909	10/17/2019 0:00	1.85	66	2.00	1.75	1.78
## 910	10/18/2019 0:00	1.85	61	2.00	1.75	1.77
## 911	10/21/2019 0:00	1.85	60	2.00	1.75	1.78
## 912	10/22/2019 0:00	1.85	67	2.00	1.75	1.76
## 913	10/23/2019 0:00	1.85	65	2.00	1.75	1.75
## 914	10/24/2019 0:00	1.85	65	2.00	1.75	1.75
## 915	10/25/2019 0:00	1.83	73	2.00	1.75	1.75
## 916	10/28/2019 0:00	1.83	72	2.00	1.75	1.76
## 917	10/29/2019 0:00	1.82	72	2.00	1.75	1.75
## 918	10/30/2019 0:00	1.82	69	2.00	1.75	1.78
## 919	10/31/2019 0:00	1.58	71	1.75	1.50	1.50
## 920	11/1/2019 0:00	1.57	83	1.75	1.50	1.50
## 921	11/4/2019 0:00	1.56	83	1.75	1.50	1.51
## 922	11/5/2019 0:00	1.56	81	1.75	1.50	1.52
## 923	11/6/2019 0:00	1.55	80	1.75	1.50	1.50
## 924	11/7/2019 0:00	1.55	76	1.75	1.50	1.50
## 925	11/8/2019 0:00	1.55	71	1.75	1.50	1.52
## 926	11/12/2019 0:00	1.55	71	1.75	1.50	1.52
## 927	11/13/2019 0:00	1.55	71	1.75	1.50	1.50
## 928	11/14/2019 0:00	1.55	68	1.75	1.50	1.50
## 929	11/15/2019 0:00	1.55	73	1.75	1.50	1.50
## 930	11/18/2019 0:00	1.55	62	1.75	1.50	1.53
## 931	11/19/2019 0:00	1.55	64	1.75	1.50	1.53
## 932	11/20/2019 0:00	1.55	70	1.75	1.50	1.52
## 933	11/21/2019 0:00	1.55	67	1.75	1.50	1.53
## 934	11/22/2019 0:00	1.55	65	1.75	1.50	1.51
## 935	11/25/2019 0:00	1.55	69	1.75	1.50	1.52
## 936	11/26/2019 0:00	1.55	71	1.75	1.50	1.52
## 937	11/27/2019 0:00	1.55	68	1.75	1.50	1.52
## 938	11/29/2019 0:00	1.56	70	1.75	1.50	1.52
## 939	12/2/2019 0:00	1.56	72	1.75	1.50	1.53
## 940	12/3/2019 0:00	1.55	76	1.75	1.50	1.52
## 941	12/4/2019 0:00	1.55	75	1.75	1.50	1.50
## 942	12/5/2019 0:00	1.55	70	1.75	1.50	1.50
## 943	12/6/2019 0:00	1.55	82	1.75	1.50	1.51
## 944	12/9/2019 0:00	1.55	73	1.75	1.50	1.50
## 945	12/10/2019 0:00	1.55	75	1.75	1.50	1.50
## 946	12/11/2019 0:00	1.55	73	1.75	1.50	1.52
## 947	12/12/2019 0:00	1.55	75	1.75	1.50	1.50
## 948	12/13/2019 0:00	1.55	70	1.75	1.50	1.52
## 949	12/16/2019 0:00	1.56	69	1.75	1.50	1.52
## 950	12/17/2019 0:00	1.55	68	1.75	1.50	1.51

## 951	12/18/2019 0:00	1.55	74	1.75	1.50	1.50
## 952	12/19/2019 0:00	1.55	73	1.75	1.50	1.50
## 953	12/20/2019 0:00	1.55	69	1.75	1.50	1.50
## 954	12/23/2019 0:00	1.55	69	1.75	1.50	1.50
## 955	12/24/2019 0:00	1.55	71	1.75	1.50	1.50
## 956	12/26/2019 0:00	1.55	75	1.75	1.50	1.50
## 957	12/27/2019 0:00	1.55	73	1.75	1.50	1.50
## 958	12/30/2019 0:00	1.55	72	1.75	1.50	1.50
## 959	12/31/2019 0:00	1.55	51	1.75	1.50	1.00
## 960	1/2/2020 0:00	1.55	74	1.75	1.50	1.52
## 961	1/3/2020 0:00	1.55	79	1.75	1.50	1.50
## 962	1/6/2020 0:00	1.55	77	1.75	1.50	1.52
## 963	1/7/2020 0:00	1.55	80	1.75	1.50	1.51
## 964	1/8/2020 0:00	1.55	83	1.75	1.50	1.50
## 965	1/9/2020 0:00	1.55	81	1.75	1.50	1.52
## 966	1/10/2020 0:00	1.54	83	1.75	1.50	1.51
## 967	1/13/2020 0:00	1.54	85	1.75	1.50	1.51
## 968	1/14/2020 0:00	1.54	76	1.75	1.50	1.50
## 969	1/15/2020 0:00	1.54	76	1.75	1.50	1.52
## 970	1/16/2020 0:00	1.54	78	1.75	1.50	1.51
## 971	1/17/2020 0:00	1.55	67	1.75	1.50	1.52
## 972	1/21/2020 0:00	1.55	64	1.75	1.50	1.53
## 973	1/22/2020 0:00	1.55	69	1.75	1.50	1.52
## 974	1/23/2020 0:00	1.55	67	1.75	1.50	1.50
## 975	1/24/2020 0:00	1.55	70	1.75	1.50	1.52
## 976	1/27/2020 0:00	1.55	71	1.75	1.50	1.52
## 977	1/28/2020 0:00	1.55	69	1.75	1.50	1.52
## 978	1/29/2020 0:00	1.55	71	1.75	1.50	1.52
## 979	1/30/2020 0:00	1.60	64	1.75	1.50	1.57
## 980	1/31/2020 0:00	1.59	78	1.75	1.50	1.50
## 981	2/3/2020 0:00	1.59	79	1.75	1.50	1.55
## 982	2/4/2020 0:00	1.59	80	1.75	1.50	1.57
## 983	2/5/2020 0:00	1.59	83	1.75	1.50	1.57
## 984	2/6/2020 0:00	1.59	79	1.75	1.50	1.55
## 985	2/7/2020 0:00	1.58	77	1.75	1.50	1.55
## 986	2/10/2020 0:00	1.58	69	1.75	1.50	1.55
## 987	2/11/2020 0:00	1.58	66	1.75	1.50	1.57
## 988	2/12/2020 0:00	1.58	74	1.75	1.50	1.55
## 989	2/13/2020 0:00	1.58	69	1.75	1.50	1.57
## 990	2/14/2020 0:00	1.58	61	1.75	1.50	1.57
## 991	2/18/2020 0:00	1.59	61	1.75	1.50	1.57
## 992	2/19/2020 0:00	1.59	64	1.75	1.50	1.55
## 993	2/20/2020 0:00	1.59	60	1.75	1.50	1.57
## 994	2/21/2020 0:00	1.58	65	1.75	1.50	1.55
## 995	2/24/2020 0:00	1.58	63	1.75	1.50	1.55
## 996	2/25/2020 0:00	1.58	64	1.75	1.50	1.56
## 997	2/26/2020 0:00	1.58	62	1.75	1.50	1.55
## 998	2/27/2020 0:00	1.58	65	1.75	1.50	1.50
## 999	2/28/2020 0:00	1.58	61	1.75	1.50	1.50
## 1000	3/2/2020 0:00	1.59	58	1.75	1.50	1.55
## 1001	3/3/2020 0:00	1.59	58	1.75	1.50	1.55
## 1002	3/4/2020 0:00	1.09	80	1.25	1.00	1.05
## 1003	3/5/2020 0:00	1.09	78	1.25	1.00	1.00
## 1004	3/6/2020 0:00	1.09	79	1.25	1.00	1.05

## 1005	3/9/2020 0:00 1.09	77	1.25	1.00	1.07
## 1006	3/10/2020 0:00 1.09	77	1.25	1.00	1.05
## 1007	3/11/2020 0:00 1.09	80	1.25	1.00	1.07
## 1008	3/12/2020 0:00 1.10	61	1.25	1.00	1.05
## 1009	3/13/2020 0:00 1.10	65	1.25	1.00	0.95
## 1010	3/16/2020 0:00 0.25	80	0.25	0.00	0.05
## 1011	3/17/2020 0:00 0.25	85	0.25	0.00	0.05
## 1012	3/18/2020 0:00 0.25	82	0.25	0.00	0.05
## 1013	3/19/2020 0:00 0.20	103	0.25	0.00	0.05
## 1014	3/20/2020 0:00 0.15	87	0.25	0.00	0.05
## 1015	3/23/2020 0:00 0.15	82	0.25	0.00	0.05
## 1016	3/24/2020 0:00 0.12	95	0.25	0.00	0.05
## 1017	3/25/2020 0:00 0.10	102	0.25	0.00	0.05
## 1018	3/26/2020 0:00 0.10	101	0.25	0.00	0.05
## 1019	3/27/2020 0:00 0.10	94	0.25	0.00	0.05
## 1020	3/30/2020 0:00 0.09	84	0.25	0.00	0.03
## 1021	3/31/2020 0:00 0.08	78	0.25	0.00	0.01
## 1022	4/1/2020 0:00 0.06	92	0.25	0.00	0.03
## 1023	4/2/2020 0:00 0.05	90	0.25	0.00	0.03
## 1024	4/3/2020 0:00 0.05	87	0.25	0.00	0.04
## 1025	4/6/2020 0:00 0.05	84	0.25	0.00	0.03
## 1026	4/7/2020 0:00 0.05	85	0.25	0.00	0.03
## 1027	4/8/2020 0:00 0.05	85	0.25	0.00	0.04
## 1028	4/9/2020 0:00 0.05	83	0.25	0.00	0.03
## 1029	4/13/2020 0:00 0.02	467	0.25	0.00	0.01
## 1030	4/14/2020 0:00 0.05	476	0.25	0.00	0.01
## 1031	4/15/2020 0:00 0.03	461	0.25	0.00	0.01
## 1032	4/16/2020 0:00 0.02	456	0.25	0.00	0.01
## 1033	4/17/2020 0:00 0.02	461	0.25	0.00	0.01
## 1034	4/20/2020 0:00 0.01	460	0.25	0.00	0.01
## 1035	4/21/2020 0:00 0.01	467	0.25	0.00	0.00
## 1036	4/22/2020 0:00 0.01	468	0.25	0.00	0.00
## 1037	4/23/2020 0:00 0.01	471	0.25	0.00	0.01
## 1038	4/24/2020 0:00 0.03	477	0.25	0.00	0.01
## 1039	4/27/2020 0:00 0.02	477	0.25	0.00	0.01
## 1040	4/28/2020 0:00 0.01	476	0.25	0.00	0.01
## 1041	4/29/2020 0:00 0.01	470	0.25	0.00	0.00
## 1042	4/30/2020 0:00 0.02	479	0.25	0.00	0.01
## 1043	5/1/2020 0:00 0.02	472	0.25	0.00	0.01
## 1044	5/4/2020 0:00 0.04	479	0.25	0.00	0.01
## 1045	5/5/2020 0:00 0.04	474	0.25	0.00	0.02
## 1046	5/6/2020 0:00 0.04	459	0.25	0.00	0.02
## 1047	5/7/2020 0:00 0.05	452	0.25	0.00	0.02
## 1048	5/8/2020 0:00 0.05	448	0.25	0.00	0.02
## 1049	5/11/2020 0:00 0.05	451	0.25	0.00	0.02
## 1050	5/12/2020 0:00 0.05	446	0.25	0.00	0.03
## 1051	5/13/2020 0:00 0.04	445	0.25	0.00	0.01
## 1052	5/14/2020 0:00 0.01	441	0.25	0.00	0.01
## 1053	5/15/2020 0:00 0.04	450	0.25	0.00	0.02
## 1054	5/18/2020 0:00 0.03	450	0.25	0.00	0.01
## 1055	5/19/2020 0:00 0.03	453	0.25	0.00	0.01
## 1056	5/20/2020 0:00 0.01	449	0.25	0.00	0.01
## 1057	5/21/2020 0:00 0.01	457	0.25	0.00	0.01
## 1058	5/22/2020 0:00 0.03	452	0.25	0.00	0.02

## 1059	5/26/2020	0:00	0.05	435	0.25	0.00	0.03
## 1060	5/27/2020	0:00	0.04	439	0.25	0.00	0.02
## 1061	5/28/2020	0:00	0.05	433	0.25	0.00	0.03
## 1062	5/29/2020	0:00	0.05	428	0.25	0.00	0.03
## 1063	6/1/2020	0:00	0.05	435	0.25	0.00	0.03
## 1064	6/2/2020	0:00	0.05	429	0.25	0.00	0.04
## 1065	6/3/2020	0:00	0.05	428	0.25	0.00	0.04
## 1066	6/4/2020	0:00	0.06	414	0.25	0.00	0.03
## 1067	6/5/2020	0:00	0.06	418	0.25	0.00	0.04
## 1068	6/8/2020	0:00	0.06	416	0.25	0.00	0.04
## 1069	6/9/2020	0:00	0.06	414	0.25	0.00	0.04
## 1070	6/10/2020	0:00	0.06	414	0.25	0.00	0.04
## 1071	6/11/2020	0:00	0.06	405	0.25	0.00	0.04
## 1072	6/12/2020	0:00	0.06	397	0.25	0.00	0.04
## 1073	6/15/2020	0:00	0.07	396	0.25	0.00	0.05
## 1074	6/16/2020	0:00	0.07	401	0.25	0.00	0.05
## 1075	6/17/2020	0:00	0.07	399	0.25	0.00	0.05
## 1076	6/18/2020	0:00	0.07	405	0.25	0.00	0.05
## 1077	6/19/2020	0:00	0.06	396	0.25	0.00	0.04
## 1078	6/22/2020	0:00	0.06	402	0.25	0.00	0.04
## 1079	6/23/2020	0:00	0.05	404	0.25	0.00	0.04
## 1080	6/24/2020	0:00	0.06	400	0.25	0.00	0.04
## 1081	6/25/2020	0:00	0.06	386	0.25	0.00	0.04
## 1082	6/26/2020	0:00	0.06	382	0.25	0.00	0.04
## 1083	6/29/2020	0:00	0.06	381	0.25	0.00	0.04
## 1084	6/30/2020	0:00	0.07	383	0.25	0.00	0.05
## 1085	7/1/2020	0:00	0.07	384	0.25	0.00	0.05
## 1086	7/2/2020	0:00	0.07	375	0.25	0.00	0.05
## 1087	7/6/2020	0:00	0.10	977	0.25	0.00	0.07
## 1088	7/7/2020	0:00	0.10	969	0.25	0.00	0.07
## 1089	7/8/2020	0:00	0.10	954	0.25	0.00	0.07
## 1090	7/9/2020	0:00	0.10	984	0.25	0.00	0.07
## 1091	7/10/2020	0:00	0.10	942	0.25	0.00	0.07
## 1092	7/13/2020	0:00	0.10	960	0.25	0.00	0.07
## 1093	7/14/2020	0:00	0.11	972	0.25	0.00	0.07
## 1094	7/15/2020	0:00	0.13	939	0.25	0.00	0.09
## 1095	7/16/2020	0:00	0.12	957	0.25	0.00	0.07
## 1096	7/17/2020	0:00	0.12	988	0.25	0.00	0.07
## 1097	7/20/2020	0:00	0.12	975	0.25	0.00	0.07
## 1098	7/21/2020	0:00	0.11	963	0.25	0.00	0.07
## 1099	7/22/2020	0:00	0.10	1031	0.25	0.00	0.06
## 1100	7/23/2020	0:00	0.10	942	0.25	0.00	0.07
## 1101	7/24/2020	0:00	0.10	950	0.25	0.00	0.07
## 1102	7/27/2020	0:00	0.10	973	0.25	0.00	0.07
## 1103	7/28/2020	0:00	0.10	955	0.25	0.00	0.07
## 1104	7/29/2020	0:00	0.09	948	0.25	0.00	0.06
## 1105	7/30/2020	0:00	0.10	928	0.25	0.00	0.06
## 1106	7/31/2020	0:00	0.10	1034	0.25	0.00	0.07
## 1107	8/3/2020	0:00	0.10	991	0.25	0.00	0.07
## 1108	8/4/2020	0:00	0.09	1051	0.25	0.00	0.06
## 1109	8/5/2020	0:00	0.09	1028	0.25	0.00	0.07
## 1110	8/6/2020	0:00	0.09	1029	0.25	0.00	0.07
## 1111	8/7/2020	0:00	0.09	944	0.25	0.00	0.06
## 1112	8/10/2020	0:00	0.09	948	0.25	0.00	0.06

## 1113	8/11/2020	0:00	0.10	956	0.25	0.00	0.06
## 1114	8/12/2020	0:00	0.09	964	0.25	0.00	0.06
## 1115	8/13/2020	0:00	0.09	989	0.25	0.00	0.06
## 1116	8/14/2020	0:00	0.09	930	0.25	0.00	0.06
## 1117	8/17/2020	0:00	0.10	944	0.25	0.00	0.07
## 1118	8/18/2020	0:00	0.09	977	0.25	0.00	0.06
## 1119	8/19/2020	0:00	0.09	961	0.25	0.00	0.04
## 1120	8/20/2020	0:00	0.07	983	0.25	0.00	0.04
## 1121	8/21/2020	0:00	0.07	959	0.25	0.00	0.04
## 1122	8/24/2020	0:00	0.08	935	0.25	0.00	0.05
## 1123	8/25/2020	0:00	0.08	931	0.25	0.00	0.05
## 1124	8/26/2020	0:00	0.07	938	0.25	0.00	0.05
## 1125	8/27/2020	0:00	0.07	898	0.25	0.00	0.05
## 1126	8/28/2020	0:00	0.07	881	0.25	0.00	0.04
## 1127	8/31/2020	0:00	0.09	934	0.25	0.00	0.06
## 1128	9/1/2020	0:00	0.09	969	0.25	0.00	0.05
## 1129	9/2/2020	0:00	0.09	947	0.25	0.00	0.05
## 1130	9/3/2020	0:00	0.10	955	0.25	0.00	0.06
## 1131	9/4/2020	0:00	0.09	935	0.25	0.00	0.06
## 1132	9/8/2020	0:00	0.09	957	0.25	0.00	0.06
## 1133	9/9/2020	0:00	0.09	937	0.25	0.00	0.06
## 1134	9/10/2020	0:00	0.09	924	0.25	0.00	0.06
## 1135	9/11/2020	0:00	0.09	900	0.25	0.00	0.06
## 1136	9/14/2020	0:00	0.09	881	0.25	0.00	0.06
## 1137	9/15/2020	0:00	0.10	938	0.25	0.00	0.07
## 1138	9/16/2020	0:00	0.10	899	0.25	0.00	0.06
## 1139	9/17/2020	0:00	0.10	892	0.25	0.00	0.06
## 1140	9/18/2020	0:00	0.09	896	0.25	0.00	0.06
## 1141	9/21/2020	0:00	0.08	925	0.25	0.00	0.04
## 1142	9/22/2020	0:00	0.07	941	0.25	0.00	0.04
## 1143	9/23/2020	0:00	0.06	945	0.25	0.00	0.03
## 1144	9/24/2020	0:00	0.07	919	0.25	0.00	0.04
## 1145	9/25/2020	0:00	0.08	929	0.25	0.00	0.05
## 1146	9/28/2020	0:00	0.08	923	0.25	0.00	0.05
## 1147	9/29/2020	0:00	0.07	916	0.25	0.00	0.05
## 1148	9/30/2020	0:00	0.08	975	0.25	0.00	0.05
## 1149	10/1/2020	0:00	0.08	1020	0.25	0.00	0.05
## 1150	10/2/2020	0:00	0.10	927	0.25	0.00	0.05
## 1151	10/5/2020	0:00	0.09	955	0.25	0.00	0.06
## 1152	10/6/2020	0:00	0.10	920	0.25	0.00	0.06
## 1153	10/7/2020	0:00	0.09	925	0.25	0.00	0.06
## 1154	10/8/2020	0:00	0.08	924	0.25	0.00	0.05
## 1155	10/9/2020	0:00	0.09	894	0.25	0.00	0.05
## 1156	10/13/2020	0:00	0.09	930	0.25	0.00	0.05
## 1157	10/14/2020	0:00	0.09	885	0.25	0.00	0.05
## 1158	10/15/2020	0:00	0.10	952	0.25	0.00	0.06
## 1159	10/16/2020	0:00	0.09	914	0.25	0.00	0.06
## 1160	10/19/2020	0:00	0.09	903	0.25	0.00	0.05
## 1161	10/20/2020	0:00	0.08	918	0.25	0.00	0.05
## 1162	10/21/2020	0:00	0.07	943	0.25	0.00	0.04
## 1163	10/22/2020	0:00	0.07	929	0.25	0.00	0.04
## 1164	10/23/2020	0:00	0.08	915	0.25	0.00	0.05
## 1165	10/26/2020	0:00	0.09	921	0.25	0.00	0.06
## 1166	10/27/2020	0:00	0.09	931	0.25	0.00	0.06

## 1167	10/28/2020	0:00	0.08	910	0.25	0.00	0.05
## 1168	10/29/2020	0:00	0.09	866	0.25	0.00	0.05
## 1169	10/30/2020	0:00	0.09	873	0.25	0.00	0.06
## 1170	11/2/2020	0:00	0.11	956	0.25	0.00	0.07
## 1171	11/3/2020	0:00	0.10	948	0.25	0.00	0.06
## 1172	11/4/2020	0:00	0.10	899	0.25	0.00	0.06
## 1173	11/5/2020	0:00	0.11	938	0.25	0.00	0.07
## 1174	11/6/2020	0:00	0.10	888	0.25	0.00	0.07
## 1175	11/9/2020	0:00	0.10	904	0.25	0.00	0.06
## 1176	11/10/2020	0:00	0.10	923	0.25	0.00	0.06
## 1177	11/12/2020	0:00	0.09	912	0.25	0.00	0.05
## 1178	11/13/2020	0:00	0.09	904	0.25	0.00	0.06
## 1179	11/16/2020	0:00	0.10	953	0.25	0.00	0.06
## 1180	11/17/2020	0:00	0.09	970	0.25	0.00	0.05
## 1181	11/18/2020	0:00	0.07	941	0.25	0.00	0.04
## 1182	11/19/2020	0:00	0.06	911	0.25	0.00	0.03
## 1183	11/20/2020	0:00	0.05	920	0.25	0.00	0.03
## 1184	11/23/2020	0:00	0.05	913	0.25	0.00	0.03
## 1185	11/24/2020	0:00	0.07	910	0.25	0.00	0.04
## 1186	11/25/2020	0:00	0.08	937	0.25	0.00	0.05
## 1187	11/27/2020	0:00	0.08	900	0.25	0.00	0.05
## 1188	11/30/2020	0:00	0.09	1055	0.25	0.00	0.06
## 1189	12/1/2020	0:00	0.08	972	0.25	0.00	0.05
## 1190	12/2/2020	0:00	0.08	926	0.25	0.00	0.05
## 1191	12/3/2020	0:00	0.08	954	0.25	0.00	0.05
## 1192	12/4/2020	0:00	0.09	951	0.25	0.00	0.06
## 1193	12/7/2020	0:00	0.08	951	0.25	0.00	0.05
## 1194	12/8/2020	0:00	0.07	939	0.25	0.00	0.05
## 1195	12/9/2020	0:00	0.08	935	0.25	0.00	0.05
## 1196	12/10/2020	0:00	0.08	946	0.25	0.00	0.05
## 1197	12/11/2020	0:00	0.08	885	0.25	0.00	0.05
## 1198	12/14/2020	0:00	0.08	907	0.25	0.00	0.05
## 1199	12/15/2020	0:00	0.09	933	0.25	0.00	0.06
## 1200	12/16/2020	0:00	0.09	914	0.25	0.00	0.06
## 1201	12/17/2020	0:00	0.09	922	0.25	0.00	0.06
## 1202	12/18/2020	0:00	0.09	943	0.25	0.00	0.06
## 1203	12/21/2020	0:00	0.09	922	0.25	0.00	0.06
## 1204	12/22/2020	0:00	0.07	923	0.25	0.00	0.04
## 1205	12/23/2020	0:00	0.06	921	0.25	0.00	0.04
## 1206	12/24/2020	0:00	0.08	895	0.25	0.00	0.05
## 1207	12/28/2020	0:00	0.09	946	0.25	0.00	0.06
## 1208	12/29/2020	0:00	0.10	945	0.25	0.00	0.06
## 1209	12/30/2020	0:00	0.09	916	0.25	0.00	0.05
## 1210	12/31/2020	0:00	0.07	1095	0.25	0.00	0.03
## 1211	1/4/2021	0:00	0.10	1046	0.25	0.00	0.05
## 1212	1/5/2021	0:00	0.11	986	0.25	0.00	0.06
## 1213	1/6/2021	0:00	0.10	978	0.25	0.00	0.07
## 1214	1/7/2021	0:00	0.10	951	0.25	0.00	0.06
## 1215	1/8/2021	0:00	0.09	992	0.25	0.00	0.06
## 1216	1/11/2021	0:00	0.09	964	0.25	0.00	0.05
## 1217	1/12/2021	0:00	0.08	918	0.25	0.00	0.05
## 1218	1/13/2021	0:00	0.08	911	0.25	0.00	0.05
## 1219	1/14/2021	0:00	0.08	887	0.25	0.00	0.04
## 1220	1/15/2021	0:00	0.08	904	0.25	0.00	0.05

## 1221	1/19/2021	0:00	0.07	936	0.25	0.00	0.04
## 1222	1/20/2021	0:00	0.06	883	0.25	0.00	0.02
## 1223	1/21/2021	0:00	0.04	922	0.25	0.00	0.01
## 1224	1/22/2021	0:00	0.05	906	0.25	0.00	0.03
## 1225	1/25/2021	0:00	0.06	885	0.25	0.00	0.03
## 1226	1/26/2021	0:00	0.03	926	0.25	0.00	0.01
## 1227	1/27/2021	0:00	0.03	913	0.25	0.00	0.01
## 1228	1/28/2021	0:00	0.04	906	0.25	0.00	0.02
## 1229	1/29/2021	0:00	0.06	915	0.25	0.00	0.03
## 1230	2/1/2021	0:00	0.07	1010	0.25	0.00	0.04
## 1231	2/2/2021	0:00	0.07	968	0.25	0.00	0.04
## 1232	2/3/2021	0:00	0.07	962	0.25	0.00	0.03
## 1233	2/4/2021	0:00	0.05	989	0.25	0.00	0.03
## 1234	2/5/2021	0:00	0.02	933	0.25	0.00	0.01
## 1235	2/8/2021	0:00	0.02	920	0.25	0.00	0.01
## 1236	2/9/2021	0:00	0.05	901	0.25	0.00	0.03
## 1237	2/10/2021	0:00	0.06	884	0.25	0.00	0.04
## 1238	2/11/2021	0:00	0.06	891	0.25	0.00	0.03
## 1239	2/12/2021	0:00	0.05	890	0.25	0.00	0.02
## 1240	2/16/2021	0:00	0.06	934	0.25	0.00	0.04
## 1241	2/17/2021	0:00	0.06	957	0.25	0.00	0.03
## 1242	2/18/2021	0:00	0.03	872	0.25	0.00	0.02
## 1243	2/19/2021	0:00	0.02	873	0.25	0.00	0.01
## 1244	2/22/2021	0:00	0.03	860	0.25	0.00	0.01
## 1245	2/23/2021	0:00	0.01	917	0.25	0.00	0.00
## 1246	2/24/2021	0:00	0.02	870	0.25	0.00	0.01
## 1247	2/25/2021	0:00	0.03	896	0.25	0.00	0.01
## 1248	2/26/2021	0:00	0.01	889	0.25	0.00	-0.02
## 1249	3/1/2021	0:00	0.02	988	0.25	0.00	0.00
## 1250	3/2/2021	0:00	0.04	951	0.25	0.00	0.01
## 1251	3/3/2021	0:00	0.04	897	0.25	0.00	0.02
## 1252	3/4/2021	0:00	0.02	936	0.25	0.00	0.01
## 1253	3/5/2021	0:00	0.02	933	0.25	0.00	0.00
## 1254	3/8/2021	0:00	0.02	928	0.25	0.00	0.00
## 1255	3/9/2021	0:00	0.02	914	0.25	0.00	0.00
## 1256	3/10/2021	0:00	0.02	914	0.25	0.00	0.00
## 1257	3/11/2021	0:00	0.01	884	0.25	0.00	-0.01
## 1258	3/12/2021	0:00	0.01	889	0.25	0.00	-0.03
## 1259	3/15/2021	0:00	0.01	898	0.25	0.00	0.00
## 1260	3/16/2021	0:00	0.01	914	0.25	0.00	-0.01
## 1261	3/17/2021	0:00	0.01	883	0.25	0.00	-0.01
## 1262	3/18/2021	0:00	0.01	868	0.25	0.00	-0.03
## 1263	3/19/2021	0:00	0.01	865	0.25	0.00	-0.04
## 1264	3/22/2021	0:00	0.01	869	0.25	0.00	-0.05
## 1265	3/23/2021	0:00	0.01	896	0.25	0.00	-0.03
## 1266	3/24/2021	0:00	0.01	895	0.25	0.00	-0.01
## 1267	3/25/2021	0:00	0.01	956	0.25	0.00	0.00
## 1268	3/26/2021	0:00	0.01	924	0.25	0.00	0.00
## 1269	3/29/2021	0:00	0.01	858	0.25	0.00	0.00
## 1270	3/30/2021	0:00	0.01	808	0.25	0.00	-0.02
## 1271	3/31/2021	0:00	0.01	931	0.25	0.00	-0.02
## 1272	4/1/2021	0:00	0.01	989	0.25	0.00	0.00
## 1273	4/2/2021	0:00	0.07	92	0.25	0.00	0.03
## 1274	4/5/2021	0:00	0.07	262	0.25	0.00	0.04



## 1275	4/6/2021	0:00	0.07	255	0.25	0.00	0.04
## 1276	4/7/2021	0:00	0.06	256	0.25	0.00	0.04
## 1277	4/8/2021	0:00	0.06	257	0.25	0.00	0.03
## 1278	4/9/2021	0:00	0.06	244	0.25	0.00	0.04
## 1279	4/12/2021	0:00	0.06	252	0.25	0.00	0.04
## 1280	4/13/2021	0:00	0.06	242	0.25	0.00	0.03
## 1281	4/14/2021	0:00	0.06	235	0.25	0.00	0.03
## 1282	4/15/2021	0:00	0.06	242	0.25	0.00	0.03
## 1283	4/16/2021	0:00	0.06	246	0.25	0.00	0.03
## 1284	4/19/2021	0:00	0.06	248	0.25	0.00	0.03
## 1285	4/20/2021	0:00	0.06	256	0.25	0.00	0.03
## 1286	4/21/2021	0:00	0.06	250	0.25	0.00	0.03
## 1287	4/22/2021	0:00	0.06	263	0.25	0.00	0.03
## 1288	4/23/2021	0:00	0.06	259	0.25	0.00	0.03
## 1289	4/26/2021	0:00	0.06	276	0.25	0.00	0.03
## 1290	4/27/2021	0:00	0.06	265	0.25	0.00	0.03
## 1291	4/28/2021	0:00	0.05	259	0.25	0.00	0.03
## 1292	4/29/2021	0:00	0.05	269	0.25	0.00	0.02
## 1293	4/30/2021	0:00	0.03	235	0.25	0.00	0.01
## 1294	5/3/2021	0:00	0.05	248	0.25	0.00	0.02
## 1295	5/4/2021	0:00	0.05	257	0.25	0.00	0.03
## 1296	5/5/2021	0:00	0.05	244	0.25	0.00	0.03
## 1297	5/6/2021	0:00	0.05	261	0.25	0.00	0.03
## 1298	5/7/2021	0:00	0.05	258	0.25	0.00	0.03
## 1299	5/10/2021	0:00	0.05	271	0.25	0.00	0.03
## 1300	5/11/2021	0:00	0.05	261	0.25	0.00	0.03
## 1301	5/12/2021	0:00	0.05	253	0.25	0.00	0.03
## 1302	5/13/2021	0:00	0.05	253	0.25	0.00	0.02
## 1303	5/14/2021	0:00	0.05	245	0.25	0.00	0.03
## 1304	5/17/2021	0:00	0.05	267	0.25	0.00	0.03
## 1305	5/18/2021	0:00	0.05	266	0.25	0.00	0.03
## 1306	5/19/2021	0:00	0.05	249	0.25	0.00	0.03
## 1307	5/20/2021	0:00	0.05	259	0.25	0.00	0.03
## 1308	5/21/2021	0:00	0.05	270	0.25	0.00	0.02
## 1309	5/24/2021	0:00	0.05	265	0.25	0.00	0.02
## 1310	5/25/2021	0:00	0.04	261	0.25	0.00	0.02
## 1311	5/26/2021	0:00	0.04	262	0.25	0.00	0.02
## 1312	5/27/2021	0:00	0.04	243	0.25	0.00	0.02
## 1313	5/28/2021	0:00	0.03	219	0.25	0.00	0.01
## 1314	6/1/2021	0:00	0.04	233	0.25	0.00	0.02
## 1315	6/2/2021	0:00	0.05	250	0.25	0.00	0.03
## 1316	6/3/2021	0:00	0.04	272	0.25	0.00	0.03
## 1317	6/4/2021	0:00	0.04	262	0.25	0.00	0.03
## 1318	6/7/2021	0:00	0.04	267	0.25	0.00	0.03
## 1319	6/8/2021	0:00	0.04	254	0.25	0.00	0.02
## 1320	6/9/2021	0:00	0.04	259	0.25	0.00	0.03
## 1321	6/10/2021	0:00	0.04	249	0.25	0.00	0.02
## 1322	6/11/2021	0:00	0.04	252	0.25	0.00	0.02
## 1323	6/14/2021	0:00	0.04	251	0.25	0.00	0.02
## 1324	6/15/2021	0:00	0.04	248	0.25	0.00	0.02
## 1325	6/16/2021	0:00	0.04	242	0.25	0.00	0.02
## 1326	6/17/2021	0:00	0.08	226	0.25	0.00	0.04
## 1327	6/18/2021	0:00	0.08	224	0.25	0.00	0.04
## 1328	6/21/2021	0:00	0.08	253	0.25	0.00	0.05

## 1329	6/22/2021	0:00	0.08	261	0.25	0.00	0.05
## 1330	6/23/2021	0:00	0.08	261	0.25	0.00	0.05
## 1331	6/24/2021	0:00	0.08	266	0.25	0.00	0.05
## 1332	6/25/2021	0:00	0.08	267	0.25	0.00	0.05
## 1333	6/28/2021	0:00	0.08	266	0.25	0.00	0.05
## 1334	6/29/2021	0:00	0.08	252	0.25	0.00	0.05
## 1335	6/30/2021	0:00	0.06	137	0.25	0.00	0.03
## 1336	7/1/2021	0:00	0.08	246	0.25	0.00	0.04
## 1337	7/2/2021	0:00	0.08	242	0.25	0.00	0.04
## 1338	7/6/2021	0:00	0.08	262	0.25	0.00	0.05
## 1339	7/7/2021	0:00	0.08	247	0.25	0.00	0.01
## 1340	7/8/2021	0:00	0.08	256	0.25	0.00	0.04
## 1341	7/9/2021	0:00	0.08	257	0.25	0.00	0.04
## 1342	7/12/2021	0:00	0.08	256	0.25	0.00	0.04
## 1343	7/13/2021	0:00	0.08	249	0.25	0.00	0.05
## 1344	7/14/2021	0:00	0.08	246	0.25	0.00	0.04
## 1345	7/15/2021	0:00	0.08	253	0.25	0.00	0.05
## 1346	7/16/2021	0:00	0.08	254	0.25	0.00	0.05
## 1347	7/19/2021	0:00	0.08	255	0.25	0.00	0.05
## 1348	7/20/2021	0:00	0.08	259	0.25	0.00	0.05
## 1349	7/21/2021	0:00	0.08	258	0.25	0.00	0.05
## 1350	7/22/2021	0:00	0.08	255	0.25	0.00	0.05
## 1351	7/23/2021	0:00	0.08	245	0.25	0.00	0.05
## 1352	7/26/2021	0:00	0.08	260	0.25	0.00	0.05
## 1353	7/27/2021	0:00	0.08	256	0.25	0.00	0.04
## 1354	7/28/2021	0:00	0.08	244	0.25	0.00	0.04
## 1355	7/29/2021	0:00	0.08	253	0.25	0.00	0.04
## 1356	7/30/2021	0:00	0.06	215	0.25	0.00	0.03
## 1357	8/2/2021	0:00	0.08	246	0.25	0.00	0.04
## 1358	8/3/2021	0:00	0.08	245	0.25	0.00	0.04
## 1359	8/4/2021	0:00	0.08	250	0.25	0.00	0.04
## 1360	8/5/2021	0:00	0.08	243	0.25	0.00	0.04
## 1361	8/6/2021	0:00	0.08	248	0.25	0.00	0.04
## 1362	8/9/2021	0:00	0.08	252	0.25	0.00	0.04
## 1363	8/10/2021	0:00	0.08	251	0.25	0.00	0.04
## 1364	8/11/2021	0:00	0.08	248	0.25	0.00	0.04
## 1365	8/12/2021	0:00	0.08	247	0.25	0.00	0.04
## 1366	8/13/2021	0:00	0.08	249	0.25	0.00	0.04
## 1367	8/16/2021	0:00	0.08	252	0.25	0.00	0.04
## 1368	8/17/2021	0:00	0.08	250	0.25	0.00	0.04
## 1369	8/18/2021	0:00	0.08	255	0.25	0.00	0.04
## 1370	8/19/2021	0:00	0.08	250	0.25	0.00	0.04
## 1371	8/20/2021	0:00	0.08	259	0.25	0.00	0.04
## 1372	8/23/2021	0:00	0.08	261	0.25	0.00	0.05
## 1373	8/24/2021	0:00	0.08	255	0.25	0.00	0.04
## 1374	8/25/2021	0:00	0.07	256	0.25	0.00	0.04
## 1375	8/26/2021	0:00	0.07	246	0.25	0.00	0.04
## 1376	8/27/2021	0:00	0.07	257	0.25	0.00	0.04
## 1377	8/30/2021	0:00	0.07	262	0.25	0.00	0.04
## 1378	8/31/2021	0:00	0.05	214	0.25	0.00	0.03
## 1379	9/1/2021	0:00	0.07	266	0.25	0.00	0.05
## 1380	9/2/2021	0:00	0.07	267	0.25	0.00	0.04
## 1381	9/3/2021	0:00	0.07	267	0.25	0.00	0.05
## 1382	9/7/2021	0:00	0.07	271	0.25	0.00	0.04

## 1383	9/8/2021	0:00	0.07	276	0.25	0.00	0.04
## 1384	9/9/2021	0:00	0.07	281	0.25	0.00	0.04
## 1385	9/10/2021	0:00	0.07	277	0.25	0.00	0.05
## 1386	9/13/2021	0:00	0.07	262	0.25	0.00	0.05
## 1387	9/14/2021	0:00	0.07	258	0.25	0.00	0.05
## 1388	9/15/2021	0:00	0.07	252	0.25	0.00	0.05
## 1389	9/16/2021	0:00	0.07	256	0.25	0.00	0.05
## 1390	9/17/2021	0:00	0.07	256	0.25	0.00	0.05
## 1391	9/20/2021	0:00	0.07	258	0.25	0.00	0.05
## 1392	9/21/2021	0:00	0.07	277	0.25	0.00	0.04
## 1393	9/22/2021	0:00	0.07	265	0.25	0.00	0.05
## 1394	9/23/2021	0:00	0.07	264	0.25	0.00	0.05
## 1395	9/24/2021	0:00	0.07	254	0.25	0.00	0.05
## 1396	9/27/2021	0:00	0.07	254	0.25	0.00	0.05
## 1397	9/28/2021	0:00	0.07	244	0.25	0.00	0.05
## 1398	9/29/2021	0:00	0.07	248	0.25	0.00	0.05
## 1399	9/30/2021	0:00	0.06	137	0.25	0.00	0.03
## 1400	10/1/2021	0:00	0.07	257	0.25	0.00	0.05
## 1401	10/4/2021	0:00	0.07	261	0.25	0.00	0.05
## 1402	10/5/2021	0:00	0.07	263	0.25	0.00	0.04
## 1403	10/6/2021	0:00	0.07	256	0.25	0.00	0.05
## 1404	10/7/2021	0:00	0.07	259	0.25	0.00	0.05
## 1405	10/8/2021	0:00	0.07	264	0.25	0.00	0.04
## 1406	10/12/2021	0:00	0.07	275	0.25	0.00	0.05
## 1407	10/13/2021	0:00	0.07	270	0.25	0.00	0.04
## 1408	10/14/2021	0:00	0.07	266	0.25	0.00	0.05
## 1409	10/15/2021	0:00	0.07	266	0.25	0.00	0.05
## 1410	10/18/2021	0:00	0.07	277	0.25	0.00	0.05
## 1411	10/19/2021	0:00	0.07	269	0.25	0.00	0.05
## 1412	10/20/2021	0:00	0.07	271	0.25	0.00	0.05
## 1413	10/21/2021	0:00	0.07	284	0.25	0.00	0.04
## 1414	10/22/2021	0:00	0.07	274	0.25	0.00	0.05
## 1415	10/25/2021	0:00	0.07	286	0.25	0.00	0.05
## 1416	10/26/2021	0:00	0.07	276	0.25	0.00	0.05
## 1417	10/27/2021	0:00	0.07	267	0.25	0.00	0.05
## 1418	10/28/2021	0:00	0.07	272	0.25	0.00	0.04
## 1419	10/29/2021	0:00	0.06	222	0.25	0.00	0.04
## 1420	11/1/2021	0:00	0.07	266	0.25	0.00	0.04
## 1421	11/2/2021	0:00	0.07	264	0.25	0.00	0.04
## 1422	11/3/2021	0:00	0.07	276	0.25	0.00	0.05
## 1423	11/4/2021	0:00	0.07	276	0.25	0.00	0.04
## 1424	11/5/2021	0:00	0.07	283	0.25	0.00	0.04
## 1425	11/8/2021	0:00	0.07	285	0.25	0.00	0.04
## 1426	11/9/2021	0:00	0.07	281	0.25	0.00	0.04
## 1427	11/10/2021	0:00	0.07	277	0.25	0.00	0.04
## 1428	11/12/2021	0:00	0.07	264	0.25	0.00	0.04
## 1429	11/15/2021	0:00	0.07	283	0.25	0.00	0.04
## 1430	11/16/2021	0:00	0.07	265	0.25	0.00	0.04
## 1431	11/17/2021	0:00	0.07	271	0.25	0.00	0.04
## 1432	11/18/2021	0:00	0.07	273	0.25	0.00	0.04
## 1433	11/19/2021	0:00	0.07	272	0.25	0.00	0.04
## 1434	11/22/2021	0:00	0.07	278	0.25	0.00	0.04
## 1435	11/23/2021	0:00	0.07	272	0.25	0.00	0.04
## 1436	11/24/2021	0:00	0.07	257	0.25	0.00	0.04

## 1437	11/26/2021	0:00	0.07	268	0.25	0.00	0.04
## 1438	11/29/2021	0:00	0.07	279	0.25	0.00	0.04
## 1439	11/30/2021	0:00	0.07	220	0.25	0.00	0.04
## 1440	12/1/2021	0:00	0.07	256	0.25	0.00	0.04
## 1441	12/2/2021	0:00	0.07	270	0.25	0.00	0.04
## 1442	12/3/2021	0:00	0.07	261	0.25	0.00	0.04
## 1443	12/6/2021	0:00	0.07	259	0.25	0.00	0.04
## 1444	12/7/2021	0:00	0.07	257	0.25	0.00	0.04
## 1445	12/8/2021	0:00	0.07	261	0.25	0.00	0.04
## 1446	12/9/2021	0:00	0.07	266	0.25	0.00	0.04
## 1447	12/10/2021	0:00	0.07	261	0.25	0.00	0.05
## 1448	12/13/2021	0:00	0.07	250	0.25	0.00	0.05
## 1449	12/14/2021	0:00	0.07	256	0.25	0.00	0.05
## 1450	12/15/2021	0:00	0.07	248	0.25	0.00	0.04
## 1451	12/16/2021	0:00	0.07	248	0.25	0.00	0.05
## 1452	12/17/2021	0:00	0.07	257	0.25	0.00	0.04
## 1453	12/20/2021	0:00	0.07	259	0.25	0.00	0.05
## 1454	12/21/2021	0:00	0.07	249	0.25	0.00	0.05
## 1455	12/22/2021	0:00	0.07	234	0.25	0.00	0.05
## 1456	12/23/2021	0:00	0.08	91	0.25	0.00	0.04
## 1457	12/27/2021	0:00	0.05	328	0.25	0.00	0.01
## 1458	12/28/2021	0:00	0.05	328	0.25	0.00	0.01
## 1459	12/29/2021	0:00	0.05	330	0.25	0.00	0.01
## 1460	12/30/2021	0:00	0.05	322	0.25	0.00	0.01
## 1461	12/31/2021	0:00	0.05	327	0.25	0.00	0.01
## 1462	1/3/2022	0:00	0.05	344	0.25	0.00	0.01
## 1463	1/4/2022	0:00	0.05	348	0.25	0.00	0.01
## 1464	1/5/2022	0:00	0.05	340	0.25	0.00	0.01
## 1465	1/6/2022	0:00	0.05	350	0.25	0.00	0.01
## 1466	1/7/2022	0:00	0.05	345	0.25	0.00	0.01
## 1467	1/10/2022	0:00	0.05	351	0.25	0.00	0.01
## 1468	1/11/2022	0:00	0.05	358	0.25	0.00	0.01
## 1469	1/12/2022	0:00	0.05	351	0.25	0.00	0.01
## 1470	1/13/2022	0:00	0.05	353	0.25	0.00	0.01
## 1471	1/14/2022	0:00	0.05	340	0.25	0.00	0.01
## 1472	1/18/2022	0:00	0.05	357	0.25	0.00	0.01
## 1473	1/19/2022	0:00	0.05	351	0.25	0.00	0.01
## 1474	1/20/2022	0:00	0.05	346	0.25	0.00	0.01
## 1475	1/21/2022	0:00	0.05	340	0.25	0.00	0.01
## 1476	1/24/2022	0:00	0.05	332	0.25	0.00	0.01
## 1477	1/25/2022	0:00	0.05	349	0.25	0.00	0.01
## 1478	1/26/2022	0:00	0.05	347	0.25	0.00	0.01
## 1479	1/27/2022	0:00	0.05	345	0.25	0.00	0.01
## 1480	1/28/2022	0:00	0.05	345	0.25	0.00	0.01
## 1481	1/31/2022	0:00	0.05	357	0.25	0.00	0.01
## 1482	2/1/2022	0:00	0.05	348	0.25	0.00	0.01
## 1483	2/2/2022	0:00	0.05	340	0.25	0.00	0.01
## 1484	2/3/2022	0:00	0.05	344	0.25	0.00	0.01
## 1485	2/4/2022	0:00	0.05	344	0.25	0.00	0.01
## 1486	2/7/2022	0:00	0.05	347	0.25	0.00	0.00
## 1487	2/8/2022	0:00	0.05	346	0.25	0.00	0.00
## 1488	2/9/2022	0:00	0.05	350	0.25	0.00	0.01
## 1489	2/10/2022	0:00	0.05	344	0.25	0.00	0.01
## 1490	2/11/2022	0:00	0.05	338	0.25	0.00	0.01

## 1491	2/14/2022	0:00	0.05	329	0.25	0.00	0.01
## 1492	2/15/2022	0:00	0.05	340	0.25	0.00	0.01
## 1493	2/16/2022	0:00	0.05	341	0.25	0.00	0.01
## 1494	2/17/2022	0:00	0.05	346	0.25	0.00	0.01
## 1495	2/18/2022	0:00	0.05	345	0.25	0.00	0.01
## 1496	2/22/2022	0:00	0.05	345	0.25	0.00	0.01
## 1497	2/23/2022	0:00	0.05	334	0.25	0.00	0.01
## 1498	2/24/2022	0:00	0.05	345	0.25	0.00	0.01
## 1499	2/25/2022	0:00	0.05	364	0.25	0.00	0.01
## 1500	2/28/2022	0:00	0.05	369	0.25	0.00	0.01
## 1501	3/1/2022	0:00	0.05	372	0.25	0.00	0.01
## 1502	3/2/2022	0:00	0.05	367	0.25	0.00	0.01
## 1503	3/3/2022	0:00	0.05	367	0.25	0.00	0.01
## 1504	3/4/2022	0:00	0.05	366	0.25	0.00	0.01
## 1505	3/7/2022	0:00	0.05	364	0.25	0.00	0.01
## 1506	3/8/2022	0:00	0.05	364	0.25	0.00	0.01
## 1507	3/9/2022	0:00	0.05	364	0.25	0.00	0.01
## 1508	3/10/2022	0:00	0.05	360	0.25	0.00	0.01
## 1509	3/11/2022	0:00	0.05	368	0.25	0.00	0.01
## 1510	3/14/2022	0:00	0.05	368	0.25	0.00	0.00
## 1511	3/15/2022	0:00	0.05	370	0.25	0.00	0.01
## 1512	3/16/2022	0:00	0.05	375	0.25	0.00	0.01
## 1513	3/17/2022	0:00	0.30	374	0.50	0.25	0.10
## 1514	3/18/2022	0:00	0.30	381	0.50	0.25	0.23
## 1515	3/21/2022	0:00	0.30	381	0.50	0.25	0.10
## 1516	3/22/2022	0:00	0.30	361	0.50	0.25	0.22
## 1517	3/23/2022	0:00	0.30	359	0.50	0.25	0.10
## 1518	3/24/2022	0:00	0.30	351	0.50	0.25	0.10
## 1519	3/25/2022	0:00	0.30	332	0.50	0.25	0.16
## 1520	3/28/2022	0:00	0.30	335	0.50	0.25	0.10
## 1521	3/29/2022	0:00	0.30	332	0.50	0.25	0.10
## 1522	3/30/2022	0:00	0.30	324	0.50	0.25	0.15
## 1523	3/31/2022	0:00	0.30	303	0.50	0.25	0.20
## 1524	4/1/2022	0:00	0.30	348	0.50	0.25	0.22
## 1525	4/4/2022	0:00	0.30	340	0.50	0.25	0.10
## 1526	4/5/2022	0:00	0.30	336	0.50	0.25	0.10
## 1527	4/6/2022	0:00	0.30	332	0.50	0.25	0.20
## 1528	4/7/2022	0:00	0.30	335	0.50	0.25	0.17
## 1529	4/8/2022	0:00	0.30	337	0.50	0.25	0.24
## 1530	4/11/2022	0:00	0.30	336	0.50	0.25	0.10
## 1531	4/12/2022	0:00	0.30	338	0.50	0.25	0.20
## 1532	4/13/2022	0:00	0.30	336	0.50	0.25	0.23
## 1533	4/14/2022	0:00	0.30	336	0.50	0.25	0.22
## 1534	4/15/2022	0:00	0.33	75	0.50	0.25	0.31
## 1535	4/18/2022	0:00	0.33	76	0.50	0.25	0.31
## 1536	4/19/2022	0:00	0.33	70	0.50	0.25	0.31
## 1537	4/20/2022	0:00	0.33	71	0.50	0.25	0.31
## 1538	4/21/2022	0:00	0.33	70	0.50	0.25	0.31
## 1539	4/22/2022	0:00	0.33	74	0.50	0.25	0.31
## 1540	4/25/2022	0:00	0.33	78	0.50	0.25	0.31
## 1541	4/26/2022	0:00	0.33	73	0.50	0.25	0.31
## 1542	4/27/2022	0:00	0.33	78	0.50	0.25	0.31
## 1543	4/28/2022	0:00	0.33	81	0.50	0.25	0.31
## 1544	4/29/2022	0:00	0.33	76	0.50	0.25	0.31

## 1545	5/2/2022 0:00 0.33	77	0.50	0.25	0.31
## 1546	5/3/2022 0:00 0.33	79	0.50	0.25	0.31
## 1547	5/4/2022 0:00 0.33	77	0.50	0.25	0.31
## 1548	5/5/2022 0:00 0.83	74	1.00	0.75	0.81
## 1549	5/6/2022 0:00 0.83	81	1.00	0.75	0.80
## 1550	5/9/2022 0:00 0.83	75	1.00	0.75	0.81
## 1551	5/10/2022 0:00 0.83	72	1.00	0.75	0.81
## 1552	5/11/2022 0:00 0.83	78	1.00	0.75	0.81
## 1553	5/12/2022 0:00 0.83	81	1.00	0.75	0.81
## 1554	5/13/2022 0:00 0.83	84	1.00	0.75	0.81
## 1555	5/16/2022 0:00 0.83	84	1.00	0.75	0.81
## 1556	5/17/2022 0:00 0.83	80	1.00	0.75	0.81
## 1557	5/18/2022 0:00 0.83	75	1.00	0.75	0.81
## 1558	5/19/2022 0:00 0.83	76	1.00	0.75	0.81
## 1559	5/20/2022 0:00 0.83	82	1.00	0.75	0.81
## 1560	5/23/2022 0:00 0.83	82	1.00	0.75	0.80
## 1561	5/24/2022 0:00 0.83	82	1.00	0.75	0.81
## 1562	5/25/2022 0:00 0.83	85	1.00	0.75	0.80
## 1563	5/26/2022 0:00 0.83	81	1.00	0.75	0.80
## 1564	5/27/2022 0:00 0.83	79	1.00	0.75	0.80
## 1565	5/31/2022 0:00 0.83	76	1.00	0.75	0.79
## 1566	6/1/2022 0:00 0.83	85	1.00	0.75	0.80
## 1567	6/2/2022 0:00 0.83	83	1.00	0.75	0.80
## 1568	6/3/2022 0:00 0.83	85	1.00	0.75	0.80
## 1569	6/6/2022 0:00 0.83	85	1.00	0.75	0.80
## 1570	6/7/2022 0:00 0.83	82	1.00	0.75	0.80
## 1571	6/8/2022 0:00 0.83	79	1.00	0.75	0.80
## 1572	6/9/2022 0:00 0.83	79	1.00	0.75	0.81
## 1573	6/10/2022 0:00 0.83	76	1.00	0.75	0.81
## 1574	6/13/2022 0:00 0.83	75	1.00	0.75	0.80
## 1575	6/14/2022 0:00 0.83	81	1.00	0.75	0.80
## 1576	6/15/2022 0:00 0.83	83	1.00	0.75	0.81
## 1577	6/16/2022 0:00 1.58	80	1.75	1.50	1.55
## 1578	6/17/2022 0:00 1.58	84	1.75	1.50	1.56
## 1579	6/21/2022 0:00 1.58	67	1.75	1.50	1.56
## 1580	6/22/2022 0:00 1.58	85	1.75	1.50	1.56
## 1581	6/23/2022 0:00 1.58	84	1.75	1.50	1.56
## 1582	6/24/2022 0:00 1.58	91	1.75	1.50	1.55
## 1583	6/27/2022 0:00 1.58	90	1.75	1.50	1.55
## 1584	6/28/2022 0:00 1.58	95	1.75	1.50	1.56
## 1585	6/29/2022 0:00 1.58	85	1.75	1.50	1.56
## 1586	6/30/2022 0:00 1.58	67	1.75	1.50	1.55
## 1587	7/1/2022 0:00 1.58	90	1.75	1.50	1.56
## 1588	7/5/2022 0:00 1.58	94	1.75	1.50	1.55
## 1589	7/6/2022 0:00 1.58	95	1.75	1.50	1.55
## 1590	7/7/2022 0:00 1.58	92	1.75	1.50	1.55
## 1591	7/8/2022 0:00 1.58	99	1.75	1.50	1.55
## 1592	7/11/2022 0:00 1.58	93	1.75	1.50	1.55
## 1593	7/12/2022 0:00 1.58	98	1.75	1.50	1.55
## 1594	7/13/2022 0:00 1.58	96	1.75	1.50	1.55
## 1595	7/14/2022 0:00 1.58	91	1.75	1.50	1.55
## 1596	7/15/2022 0:00 1.58	97	1.75	1.50	1.55
## 1597	7/18/2022 0:00 1.58	97	1.75	1.50	1.55
## 1598	7/19/2022 0:00 1.58	90	1.75	1.50	1.56

## 1599	7/20/2022 0:00	1.58	95	1.75	1.50	1.56
## 1600	7/21/2022 0:00	1.58	96	1.75	1.50	1.56
## 1601	7/22/2022 0:00	1.58	96	1.75	1.50	1.56
## 1602	7/25/2022 0:00	1.58	94	1.75	1.50	1.55
## 1603	7/26/2022 0:00	1.58	97	1.75	1.50	1.56
## 1604	7/27/2022 0:00	1.58	98	1.75	1.50	1.56
## 1605	7/28/2022 0:00	2.33	90	2.50	2.25	2.30
## 1606	7/29/2022 0:00	2.32	86	2.50	2.25	2.30
## 1607	8/1/2022 0:00	2.33	93	2.50	2.25	2.30
## 1608	8/2/2022 0:00	2.33	95	2.50	2.25	2.30
## 1609	8/3/2022 0:00	2.33	92	2.50	2.25	2.30
## 1610	8/4/2022 0:00	2.33	91	2.50	2.25	2.31
## 1611	8/5/2022 0:00	2.33	91	2.50	2.25	2.31
## 1612	8/8/2022 0:00	2.33	89	2.50	2.25	2.31
## 1613	8/9/2022 0:00	2.33	90	2.50	2.25	2.31
## 1614	8/10/2022 0:00	2.33	93	2.50	2.25	2.31
## 1615	8/11/2022 0:00	2.33	94	2.50	2.25	2.31
## 1616	8/12/2022 0:00	2.33	97	2.50	2.25	2.30
## 1617	8/15/2022 0:00	2.33	97	2.50	2.25	2.30
## 1618	8/16/2022 0:00	2.33	94	2.50	2.25	2.31
## 1619	8/17/2022 0:00	2.33	92	2.50	2.25	2.31
## 1620	8/18/2022 0:00	2.33	91	2.50	2.25	2.31
## 1621	8/19/2022 0:00	2.33	94	2.50	2.25	2.31
## 1622	8/22/2022 0:00	2.33	91	2.50	2.25	2.30
## 1623	8/23/2022 0:00	2.33	91	2.50	2.25	2.31
## 1624	8/24/2022 0:00	2.33	94	2.50	2.25	2.31
## 1625	8/25/2022 0:00	2.33	96	2.50	2.25	2.30
## 1626	8/26/2022 0:00	2.33	98	2.50	2.25	2.31
## 1627	8/29/2022 0:00	2.33	89	2.50	2.25	2.30
## 1628	8/30/2022 0:00	2.33	90	2.50	2.25	2.30
## 1629	8/31/2022 0:00	2.33	86	2.50	2.25	2.29
## 1630	9/1/2022 0:00	2.33	100	2.50	2.25	2.30
## 1631	9/2/2022 0:00	2.33	100	2.50	2.25	2.30
## 1632	9/6/2022 0:00	2.33	94	2.50	2.25	2.30
## 1633	9/7/2022 0:00	2.33	97	2.50	2.25	2.30
## 1634	9/8/2022 0:00	2.33	94	2.50	2.25	2.30
## 1635	9/9/2022 0:00	2.33	101	2.50	2.25	2.30
## 1636	9/12/2022 0:00	2.33	93	2.50	2.25	2.30
## 1637	9/13/2022 0:00	2.33	94	2.50	2.25	2.30
## 1638	9/14/2022 0:00	2.33	95	2.50	2.25	2.30
## 1639	9/15/2022 0:00	2.33	96	2.50	2.25	2.30
## 1640	9/16/2022 0:00	2.33	96	2.50	2.25	2.30
## 1641	9/19/2022 0:00	2.33	93	2.50	2.25	2.30
## 1642	9/20/2022 0:00	2.33	91	2.50	2.25	2.30
## 1643	9/21/2022 0:00	2.33	99	2.50	2.25	2.30
## 1644	9/22/2022 0:00	3.08	99	3.25	3.00	3.05
## 1645	9/23/2022 0:00	3.08	109	3.25	3.00	3.05
## 1646	9/26/2022 0:00	3.08	111	3.25	3.00	3.05
## 1647	9/27/2022 0:00	3.08	111	3.25	3.00	3.05
## 1648	9/28/2022 0:00	3.08	110	3.25	3.00	3.05
## 1649	9/29/2022 0:00	3.08	103	3.25	3.00	3.05
## 1650	9/30/2022 0:00	3.08	90	3.25	3.00	3.05
## 1651	10/3/2022 0:00	3.08	115	3.25	3.00	3.05
## 1652	10/4/2022 0:00	3.08	107	3.25	3.00	3.05

## 1653	10/5/2022 0:00	3.08	104	3.25	3.00	3.05
## 1654	10/6/2022 0:00	3.08	109	3.25	3.00	3.05
## 1655	10/7/2022 0:00	3.08	113	3.25	3.00	3.05
## 1656	10/11/2022 0:00	3.08	104	3.25	3.00	3.05
## 1657	10/12/2022 0:00	3.08	110	3.25	3.00	3.05
## 1658	10/13/2022 0:00	3.08	106	3.25	3.00	3.05
## 1659	10/14/2022 0:00	3.08	110	3.25	3.00	3.05
## 1660	10/17/2022 0:00	3.08	103	3.25	3.00	3.05
## 1661	10/18/2022 0:00	3.08	103	3.25	3.00	3.05
## 1662	10/19/2022 0:00	3.08	104	3.25	3.00	3.05
## 1663	10/20/2022 0:00	3.08	92	3.25	3.00	3.05
## 1664	10/21/2022 0:00	3.08	99	3.25	3.00	3.05
## 1665	10/24/2022 0:00	3.08	99	3.25	3.00	3.05
## 1666	10/25/2022 0:00	3.08	103	3.25	3.00	3.05
## 1667	10/26/2022 0:00	3.08	99	3.25	3.00	3.05
## 1668	10/27/2022 0:00	3.08	103	3.25	3.00	3.05
## 1669	10/28/2022 0:00	3.08	107	3.25	3.00	3.05
## 1670	10/31/2022 0:00	3.08	82	3.25	3.00	3.05
## 1671	11/1/2022 0:00	3.08	108	3.25	3.00	3.05
## 1672	11/2/2022 0:00	3.08	103	3.25	3.00	3.05
## 1673	11/3/2022 0:00	3.83	97	4.00	3.75	3.80
## 1674	11/4/2022 0:00	3.83	105	4.00	3.75	3.80
## 1675	11/7/2022 0:00	3.83	99	4.00	3.75	3.80
## 1676	11/8/2022 0:00	3.83	101	4.00	3.75	3.80
## 1677	11/9/2022 0:00	3.83	100	4.00	3.75	2.34
## 1678	11/10/2022 0:00	3.83	97	4.00	3.75	3.80
## 1679	11/14/2022 0:00	3.83	99	4.00	3.75	3.80
## 1680	11/15/2022 0:00	3.83	97	4.00	3.75	3.80
## 1681	11/16/2022 0:00	3.83	98	4.00	3.75	3.80
## 1682	11/17/2022 0:00	3.83	99	4.00	3.75	3.80
## 1683	11/18/2022	3.83	102	4.00	3.75	3.80
## 1684	11/21/2022	3.83	94	4.00	3.75	3.80
## 1685	11/22/2022	3.83	99	4.00	3.75	3.80
## 1686	11/23/2022	3.83	108	4.00	3.75	3.80
## 1687	11/25/2022	3.83	105	4.00	3.75	3.80
## 1688	11/28/2022	3.83	97	4.00	3.75	3.80
## 1689	11/29/2022	3.83	95	4.00	3.75	3.79
## 1690	11/30/2022	3.83	92	4.00	3.75	3.80
## 1691	12/1/2022	3.83	99	4.00	3.75	3.80
## 1692	12/2/2022	3.83	108	4.00	3.75	3.80
## 1693	12/5/2022	3.83	107	4.00	3.75	3.80
## 1694	12/6/2022	3.83	110	4.00	3.75	3.80
## 1695	12/7/2022	3.83	103	4.00	3.75	3.80
## 1696	12/8/2022	3.83	99	4.00	3.75	3.80
## 1697	12/9/2022	3.83	102	4.00	3.75	3.80
## 1698	12/12/2022	3.83	97	4.00	3.75	3.80
## 1699	12/13/2022	3.83	100	4.00	3.75	3.80
## 1700	12/14/2022	3.83	101	4.00	3.75	4.30
## 1701	12/15/2022	4.33	104	4.50	4.25	4.30
## 1702	12/16/2022	4.33	99	4.50	4.25	4.30
## 1703	12/19/2022	4.33	91	4.50	4.25	4.30
## 1704	12/20/2022	4.33	99	4.50	4.25	4.30
## 1705	12/21/2022	4.33	98	4.50	4.25	4.30
## 1706	12/22/2022	4.33	99	4.50	4.25	4.30



## 1707	12/23/2022	4.33	107	4.50	4.25	4.30	
## 1708	12/27/2022	4.33	109	4.50	4.25	4.30	
## 1709	12/28/2022	4.33	99	4.50	4.25	4.30	
## 1710	12/29/2022	4.33	94	4.50	4.25	4.30	
##	PercentileE25	PercentileE75	PercentileE99	OBFR	VolumeOBFR	TargetD	TargetU
## 1	0.36	0.37	0.43	0.28	297	0.00	0
## 2	0.36	0.37	0.42	0.28	291	0.00	0
## 3	0.36	0.37	0.43	0.28	295	0.00	0
## 4	0.36	0.37	0.43	0.30	285	0.00	0
## 5	0.36	0.37	0.43	0.30	285	0.00	0
## 6	0.36	0.37	0.43	0.30	294	0.00	0
## 7	0.36	0.37	0.42	0.31	289	0.00	0
## 8	0.36	0.37	0.42	0.30	278	0.00	0
## 9	0.36	0.37	0.42	0.30	279	0.28	333
## 10	0.36	0.37	0.43	0.28	269	0.00	0
## 11	0.36	0.37	0.43	0.27	262	0.00	0
## 12	0.37	0.37	0.43	0.26	259	0.00	0
## 13	0.37	0.37	0.43	0.27	247	0.00	0
## 14	0.36	0.38	0.55	0.31	248	0.00	0
## 15	0.36	0.37	0.55	0.31	248	0.00	0
## 16	0.37	0.37	0.44	0.31	230	0.00	0
## 17	0.37	0.37	0.43	0.31	215	0.00	0
## 18	0.37	0.37	0.48	0.28	209	0.00	0
## 19	0.25	0.27	0.55	0.30	197	0.00	0
## 20	0.37	0.37	0.44	0.30	235	0.00	0
## 21	0.37	0.37	0.43	0.30	249	0.00	0
## 22	0.37	0.37	0.43	0.29	259	0.00	0
## 23	0.37	0.37	0.44	0.29	268	0.00	0
## 24	0.37	0.37	0.44	0.29	266	0.00	0
## 25	0.37	0.37	0.43	0.29	268	0.00	0
## 26	0.37	0.37	0.43	0.30	270	0.00	0
## 27	0.37	0.37	0.43	0.30	270	0.00	0
## 28	0.37	0.37	0.43	0.30	270	0.00	0
## 29	0.37	0.37	0.43	0.30	275	0.00	0
## 30	0.37	0.37	0.43	0.30	279	0.00	0
## 31	0.37	0.37	0.44	0.29	274	0.00	0
## 32	0.37	0.37	0.45	0.27	277	0.00	0
## 33	0.37	0.37	0.45	0.27	277	0.00	0
## 34	0.37	0.37	0.44	0.26	276	0.00	0
## 35	0.37	0.37	0.44	0.29	271	0.00	0
## 36	0.37	0.37	0.46	0.28	274	0.00	0
## 37	0.37	0.37	0.46	0.27	276	0.00	0
## 38	0.37	0.37	0.44	0.27	273	0.00	0
## 39	0.37	0.37	0.46	0.26	277	0.00	0
## 40	0.29	0.30	0.44	0.28	261	0.00	0
## 41	0.37	0.37	0.44	0.27	282	0.00	0
## 42	0.37	0.37	0.47	0.28	290	0.00	0
## 43	0.37	0.37	0.44	0.28	288	0.00	0
## 44	0.37	0.37	0.44	0.29	291	0.00	0
## 45	0.37	0.37	0.44	0.30	287	0.00	0
## 46	0.37	0.37	0.44	0.29	288	0.00	0
## 47	0.37	0.38	0.43	0.29	289	0.00	0
## 48	0.37	0.38	0.43	0.29	292	0.00	0
## 49	0.37	0.38	0.44	0.29	297	0.00	0

## 50	0.37	0.38	0.44 0.29	294	0.00	0
## 51	0.37	0.38	0.44 0.30	292	0.00	0
## 52	0.37	0.38	0.44 0.29	286	0.00	0
## 53	0.37	0.38	0.43 0.28	277	0.00	0
## 54	0.37	0.38	0.44 0.27	277	0.00	0
## 55	0.37	0.38	0.44 0.26	271	0.00	0
## 56	0.37	0.38	0.44 0.26	273	0.00	0
## 57	0.37	0.38	0.44 0.28	269	0.00	0
## 58	0.37	0.38	0.43 0.28	274	0.00	0
## 59	0.37	0.38	0.43 0.26	273	0.00	0
## 60	0.37	0.38	0.45 0.26	290	0.00	0
## 61	0.28	0.30	0.45 0.29	279	0.00	0
## 62	0.37	0.38	0.45 0.28	284	0.00	0
## 63	0.37	0.38	0.45 0.28	286	0.00	0
## 64	0.37	0.38	0.45 0.28	281	0.00	0
## 65	0.37	0.38	0.45 0.28	283	0.00	0
## 66	0.37	0.38	0.46 0.29	287	0.00	0
## 67	0.37	0.38	0.45 0.30	289	0.00	0
## 68	0.37	0.38	0.45 0.30	292	0.00	0
## 69	0.37	0.38	0.45 0.32	293	0.00	0
## 70	0.37	0.38	0.45 0.32	291	0.00	0
## 71	0.37	0.38	0.46 0.32	291	0.00	0
## 72	0.37	0.38	0.45 0.33	288	0.00	0
## 73	0.38	0.38	0.48 0.33	289	0.00	0
## 74	0.38	0.38	0.46 0.31	282	0.00	0
## 75	0.38	0.38	0.47 0.32	291	0.00	0
## 76	0.38	0.39	0.45 0.32	279	0.00	0
## 77	0.38	0.39	0.47 0.33	269	0.00	0
## 78	0.39	0.40	0.47 0.35	269	0.00	0
## 79	0.40	0.42	0.47 0.46	285	0.00	0
## 80	0.40	0.42	0.47 0.43	273	0.00	0
## 81	0.40	0.42	0.47 0.42	269	0.00	0
## 82	0.40	0.42	0.47 0.38	256	0.00	0
## 83	0.30	0.32	0.47 0.40	236	0.00	0
## 84	0.40	0.41	0.46 0.36	266	0.00	0
## 85	0.40	0.41	0.47 0.32	269	0.00	0
## 86	0.40	0.41	0.45 0.32	290	0.00	0
## 87	0.40	0.41	0.46 0.32	295	0.00	0
## 88	0.40	0.41	0.45 0.33	292	0.33	331
## 89	0.40	0.41	0.46 0.32	294	0.00	0
## 90	0.40	0.41	0.46 0.31	298	0.00	0
## 91	0.40	0.41	0.45 0.31	292	0.00	0
## 92	0.40	0.41	0.46 0.32	292	0.00	0
## 93	0.40	0.41	0.45 0.32	287	0.00	0
## 94	0.40	0.41	0.46 0.30	285	0.00	0
## 95	0.40	0.41	0.46 0.28	282	0.00	0
## 96	0.40	0.41	0.46 1.02	367	0.00	0
## 97	0.40	0.41	0.48 0.29	300	0.00	0
## 98	0.40	0.41	0.48 0.31	293	0.00	0
## 99	0.40	0.41	0.48 0.31	297	0.00	0
## 100	0.40	0.41	0.48 0.30	301	0.00	0
## 101	0.40	0.41	0.48 0.30	345	0.00	0
## 102	0.40	0.41	0.48 0.30	325	0.00	0
## 103	0.30	0.31	0.52 0.33	329	0.00	0

## 104	0.40	0.41	0.48 1.02	347	0.00	0
## 105	0.40	0.41	0.46 1.01	352	0.00	0
## 106	0.40	0.41	0.48 1.01	363	0.00	0
## 107	0.40	0.41	0.48 0.33	314	0.00	0
## 108	0.40	0.41	0.48 0.33	310	0.00	0
## 109	0.40	0.41	0.48 0.32	303	0.00	0
## 110	0.40	0.41	0.48 0.31	312	0.00	0
## 111	0.40	0.41	0.46 0.31	308	0.00	0
## 112	0.40	0.41	0.48 0.32	320	0.00	0
## 113	0.40	0.41	0.45 0.32	310	0.00	0
## 114	0.40	0.41	0.46 0.33	321	0.00	0
## 115	0.40	0.41	0.48 0.33	317	0.00	0
## 116	0.40	0.41	0.46 0.32	313	0.00	0
## 117	0.40	0.41	0.47 0.32	313	0.00	0
## 118	0.40	0.41	0.48 0.31	310	0.00	0
## 119	0.40	0.41	0.48 0.30	308	0.00	0
## 120	0.40	0.41	0.48 0.28	313	0.00	0
## 121	0.40	0.41	0.48 0.30	306	0.00	0
## 122	0.40	0.41	0.48 0.30	310	0.00	0
## 123	0.40	0.41	0.49 0.31	309	0.00	0
## 124	0.40	0.41	0.49 0.30	306	0.00	0
## 125	0.40	0.41	0.49 0.30	296	0.00	0
## 126	0.30	0.31	0.49 0.32	287	0.00	0
## 127	0.40	0.41	0.49 0.32	312	0.00	0
## 128	0.40	0.41	0.49 0.31	310	0.00	0
## 129	0.40	0.41	0.49 0.30	305	0.00	0
## 130	0.40	0.41	0.49 0.30	324	0.00	0
## 131	0.40	0.41	0.49 0.31	321	0.00	0
## 132	0.40	0.41	0.47 0.33	314	0.00	0
## 133	0.40	0.41	0.49 0.32	315	0.00	0
## 134	0.40	0.41	0.49 0.32	313	0.00	0
## 135	0.40	0.41	0.49 0.32	324	0.00	0
## 136	0.40	0.41	0.49 0.33	315	0.00	0
## 137	0.40	0.41	0.49 0.31	312	0.00	0
## 138	0.40	0.41	0.49 0.28	312	0.00	0
## 139	0.40	0.41	0.49 0.28	304	0.00	0
## 140	0.40	0.41	0.49 0.28	304	0.00	0
## 141	0.40	0.41	0.49 0.29	299	0.00	0
## 142	0.40	0.41	0.49 0.31	281	0.00	0
## 143	0.40	0.41	0.49 0.31	284	0.00	0
## 144	0.40	0.41	0.49 0.37	277	0.00	0
## 145	0.40	0.41	0.50 0.40	267	0.00	0
## 146	0.40	0.41	0.49 0.42	267	0.00	0
## 147	0.28	0.30	0.50 0.47	228	0.00	0
## 148	0.40	0.41	0.49 0.34	274	0.00	0
## 149	0.40	0.41	0.49 0.38	287	0.00	0
## 150	0.40	0.41	0.49 0.37	285	0.00	0
## 151	0.40	0.41	0.50 0.35	290	0.00	0
## 152	0.40	0.41	0.50 0.32	293	0.00	0
## 153	0.40	0.41	0.50 0.31	311	0.00	0
## 154	0.40	0.41	0.50 0.33	313	0.00	0
## 155	0.40	0.41	0.50 0.34	308	0.00	0
## 156	0.40	0.41	0.50 0.31	309	0.00	0
## 157	0.40	0.41	0.50 0.32	330	0.00	0

## 158	0.40	0.41	0.50 0.29	313	0.00	0
## 159	0.40	0.41	0.50 0.28	309	0.00	0
## 160	0.40	0.41	0.50 0.29	302	0.00	0
## 161	0.40	0.41	0.50 0.27	302	0.00	0
## 162	0.40	0.41	0.50 0.30	299	0.00	0
## 163	0.40	0.41	0.50 0.29	302	0.00	0
## 164	0.40	0.41	0.50 0.31	305	0.00	0
## 165	0.40	0.41	0.50 0.32	305	0.00	0
## 166	0.40	0.41	0.50 0.29	298	0.00	0
## 167	0.30	0.32	0.50 0.32	288	0.00	0
## 168	0.40	0.41	0.50 0.29	302	0.00	0
## 169	0.40	0.41	0.50 0.28	311	0.00	0
## 170	0.40	0.41	0.50 0.31	317	0.00	0
## 171	0.40	0.41	0.50 0.30	310	0.00	0
## 172	0.40	0.41	0.50 0.29	311	0.00	0
## 173	0.40	0.41	0.50 0.29	319	0.00	0
## 174	0.40	0.41	0.50 0.30	308	0.00	0
## 175	0.40	0.41	0.50 0.32	305	0.00	0
## 176	0.40	0.41	0.50 0.30	316	0.00	0
## 177	0.40	0.41	0.49 0.30	307	0.00	0
## 178	0.41	0.42	0.49 0.28	298	0.00	0
## 179	0.40	0.41	0.50 0.27	301	0.00	0
## 180	0.41	0.41	0.50 0.26	296	0.00	0
## 181	0.41	0.41	0.50 0.26	303	0.00	0
## 182	0.41	0.41	0.50 0.25	292	0.00	0
## 183	0.41	0.41	0.55 0.26	298	0.00	0
## 184	0.41	0.41	0.50 0.26	298	0.00	0
## 185	0.41	0.42	0.50 0.26	296	0.00	0
## 186	0.41	0.41	0.50 0.26	294	0.00	0
## 187	0.31	0.32	0.50 0.26	275	0.00	0
## 188	0.41	0.41	0.50 0.26	290	0.00	0
## 189	0.41	0.41	0.50 0.26	289	0.00	0
## 190	0.41	0.41	0.50 0.26	285	0.00	0
## 191	0.41	0.41	0.50 0.26	285	0.00	0
## 192	0.41	0.41	0.50 0.26	279	0.00	0
## 193	0.41	0.41	0.52 0.26	285	0.00	0
## 194	0.41	0.41	0.50 0.29	279	0.00	0
## 195	0.41	0.42	0.50 0.29	282	0.00	0
## 196	0.41	0.42	0.50 0.27	281	0.00	0
## 197	0.41	0.42	0.50 0.26	293	0.00	0
## 198	0.66	0.66	0.75 0.50	275	0.00	0
## 199	0.66	0.66	0.75 0.51	274	0.00	0
## 200	0.66	0.67	0.75 0.51	270	0.00	0
## 201	0.66	0.67	0.75 0.50	248	0.00	0
## 202	0.66	0.67	0.75 0.49	222	0.00	0
## 203	0.66	0.67	0.75 0.49	221	0.00	0
## 204	0.66	0.67	0.75 0.50	218	0.00	0
## 205	0.66	0.67	0.77 0.52	217	0.00	0
## 206	0.66	0.67	0.77 0.54	213	0.00	0
## 207	0.66	0.67	0.77 0.51	209	0.00	0
## 208	0.52	0.55	1.30 0.50	184	0.00	0
## 209	0.66	0.67	0.77 0.50	235	0.00	0
## 210	0.66	0.67	0.77 0.54	237	0.00	0
## 211	0.66	0.67	0.77 0.52	263	0.00	0

## 212	0.66	0.67	0.77 0.52	266	0.00	0
## 213	0.66	0.67	0.77 0.51	275	0.00	0
## 214	0.66	0.67	0.77 0.50	279	0.00	0
## 215	0.66	0.67	0.77 0.51	286	0.00	0
## 216	0.66	0.67	0.77 0.52	290	0.00	0
## 217	0.66	0.67	0.77 0.53	308	0.00	0
## 218	0.66	0.67	0.77 0.54	308	0.00	0
## 219	0.66	0.67	0.77 0.55	305	0.00	0
## 220	0.66	0.67	0.77 0.52	306	0.00	0
## 221	0.66	0.67	0.77 0.51	296	0.00	0
## 222	0.66	0.68	0.77 0.50	290	0.00	0
## 223	0.66	0.67	0.77 0.52	305	0.00	0
## 224	0.66	0.67	0.77 0.52	317	0.00	0
## 225	0.66	0.67	0.77 0.52	316	0.00	0
## 226	0.66	0.67	0.77 0.52	312	0.00	0
## 227	0.66	0.67	0.77 0.52	313	0.00	0
## 228	0.56	0.58	0.77 0.54	296	0.00	0
## 229	0.66	0.67	0.77 0.53	308	0.00	0
## 230	0.66	0.67	0.77 0.52	313	0.00	0
## 231	0.66	0.67	0.77 0.52	309	0.00	0
## 232	0.66	0.67	0.77 0.52	306	0.00	0
## 233	0.66	0.67	0.77 0.51	308	0.00	0
## 234	0.66	0.67	0.77 0.51	316	0.00	0
## 235	0.66	0.67	0.77 0.53	314	0.00	0
## 236	0.66	0.67	0.77 0.52	316	0.00	0
## 237	0.66	0.67	0.77 0.51	313	0.00	0
## 238	0.66	0.67	0.77 0.51	322	0.00	0
## 239	0.66	0.67	0.77 0.53	313	0.00	0
## 240	0.66	0.67	0.77 0.51	312	0.00	0
## 241	0.66	0.67	0.77 0.51	302	0.00	0
## 242	0.66	0.67	0.77 0.50	293	0.00	0
## 243	0.66	0.68	0.77 0.50	292	0.00	0
## 244	0.66	0.67	0.77 0.50	288	0.00	0
## 245	0.66	0.67	0.77 0.51	293	0.00	0
## 246	0.66	0.67	0.77 0.50	289	0.00	0
## 247	0.56	0.57	0.77 0.52	286	0.00	0
## 248	0.66	0.67	0.77 0.28	294	0.00	0
## 249	0.66	0.67	0.77 0.28	292	0.00	0
## 250	0.66	0.67	0.77 0.29	295	0.00	0
## 251	0.66	0.67	0.77 0.51	284	0.00	0
## 252	0.66	0.67	0.77 0.50	280	0.00	0
## 253	0.66	0.67	0.77 0.50	276	0.00	0
## 254	0.66	0.67	0.77 0.50	277	0.00	0
## 255	0.66	0.67	0.77 0.50	275	0.00	0
## 256	0.66	0.67	0.77 0.50	264	0.00	0
## 257	0.66	0.67	0.77 0.52	284	0.00	0
## 258	0.66	0.67	0.77 0.52	293	0.00	0
## 259	0.91	0.91	1.02 0.76	287	0.00	0
## 260	0.91	0.92	1.02 0.75	269	0.00	0
## 261	0.91	0.92	1.02 0.75	267	0.00	0
## 262	0.91	0.92	1.02 0.75	269	0.00	0
## 263	0.91	0.92	1.02 0.75	257	0.00	0
## 264	0.91	0.92	1.02 0.76	264	0.00	0
## 265	0.91	0.92	1.02 0.77	261	0.00	0

## 266	0.91	0.92	1.02 0.76	257	0.00	0
## 267	0.91	0.92	1.02 0.76	248	0.00	0
## 268	0.91	0.92	1.02 0.76	241	0.00	0
## 269	0.91	0.92	1.02 0.77	258	0.00	0
## 270	0.80	0.82	1.02 0.80	219	0.00	0
## 271	0.91	0.92	1.02 0.76	260	0.00	0
## 272	0.91	0.92	1.02 0.76	279	0.00	0
## 273	0.91	0.92	1.02 0.77	293	0.00	0
## 274	0.91	0.92	1.02 0.78	307	0.00	0
## 275	0.91	0.92	1.02 0.78	313	0.00	0
## 276	0.91	0.92	1.02 0.78	306	0.00	0
## 277	0.91	0.92	1.02 0.77	313	0.00	0
## 278	0.91	0.92	1.02 0.77	313	0.00	0
## 279	0.91	0.92	1.02 0.80	331	0.00	0
## 280	0.91	0.91	1.02 0.81	343	0.00	0
## 281	0.91	0.92	1.02 0.81	343	0.00	0
## 282	0.91	0.92	1.02 0.80	332	0.00	0
## 283	0.91	0.92	1.02 0.77	336	0.00	0
## 284	0.91	0.92	1.02 0.76	330	0.00	0
## 285	0.91	0.92	1.02 0.76	327	0.00	0
## 286	0.91	0.92	1.02 0.77	336	0.00	0
## 287	0.91	0.92	1.02 0.77	341	0.00	0
## 288	0.91	0.92	1.02 0.77	342	0.00	0
## 289	0.91	0.92	1.02 0.78	357	0.00	0
## 290	0.82	0.83	1.06 0.81	335	0.00	0
## 291	0.91	0.92	1.02 0.78	345	0.00	0
## 292	0.91	0.92	1.02 0.77	345	0.00	0
## 293	0.91	0.92	1.02 0.76	356	0.00	0
## 294	0.91	0.92	1.02 0.77	364	0.00	0
## 295	0.91	0.92	1.02 0.78	360	0.00	0
## 296	0.91	0.92	1.02 0.77	354	0.00	0
## 297	0.91	0.92	1.02 0.76	352	0.00	0
## 298	0.91	0.92	1.02 0.76	349	0.00	0
## 299	0.91	0.92	1.02 0.77	360	0.00	0
## 300	0.91	0.92	1.02 0.76	362	0.00	0
## 301	0.91	0.92	1.03 0.77	369	0.00	0
## 302	0.91	0.93	1.03 0.76	364	0.00	0
## 303	0.91	0.92	1.03 0.76	375	0.00	0
## 304	0.91	0.92	1.03 0.77	378	0.00	0
## 305	0.91	0.92	1.03 0.76	369	0.00	0
## 306	0.91	0.92	1.03 0.76	372	0.00	0
## 307	0.91	0.92	1.03 0.76	354	0.00	0
## 308	0.91	0.92	1.03 0.77	367	0.00	0
## 309	0.91	0.92	1.03 0.78	376	0.00	0
## 310	0.91	0.92	1.03 0.79	368	0.00	0
## 311	0.91	0.92	1.03 0.78	361	0.00	0
## 312	0.82	0.83	1.03 0.80	348	0.00	0
## 313	0.91	0.92	1.03 0.80	380	0.00	0
## 314	0.91	0.92	1.03 0.79	384	0.00	0
## 315	0.91	0.92	1.03 0.79	379	0.00	0
## 316	0.91	0.92	1.03 0.79	387	0.00	0
## 317	0.91	0.92	1.03 0.79	394	0.00	0
## 318	0.91	0.92	1.03 0.80	389	0.81	400
## 319	0.91	0.92	1.02 0.81	397	0.00	0

## 320	0.91	0.92	1.02 0.81	396	0.00	0
## 321	0.91	0.92	1.03 0.82	382	0.00	0
## 322	0.91	0.92	1.03 0.83	384	0.00	0
## 323	1.16	1.17	1.28 1.08	377	0.00	0
## 324	1.16	1.17	1.28 1.08	366	0.00	0
## 325	1.16	1.17	1.28 1.05	362	0.00	0
## 326	1.16	1.17	1.28 1.03	353	0.00	0
## 327	1.16	1.17	1.28 1.01	357	0.00	0
## 328	1.16	1.17	1.28 1.01	354	0.00	0
## 329	1.16	1.17	1.28 1.04	346	0.00	0
## 330	1.16	1.17	1.28 1.03	350	0.00	0
## 331	1.16	1.17	1.28 1.03	335	0.00	0
## 332	1.16	1.17	1.28 1.03	307	0.00	0
## 333	1.16	1.17	1.28 1.04	316	0.00	0
## 334	1.05	1.06	1.31 1.09	276	0.00	0
## 335	1.16	1.17	1.28 1.05	313	0.00	0
## 336	1.16	1.17	1.28 1.03	327	0.00	0
## 337	1.16	1.17	1.28 1.02	347	0.00	0
## 338	1.16	1.17	1.28 1.01	337	0.00	0
## 339	1.16	1.17	1.28 1.01	333	0.00	0
## 340	1.16	1.17	1.28 1.01	331	0.00	0
## 341	1.16	1.17	1.28 1.01	332	0.00	0
## 342	1.16	1.17	1.28 1.01	338	0.00	0
## 343	1.16	1.17	1.28 1.01	346	0.00	0
## 344	1.16	1.17	1.28 1.03	355	0.00	0
## 345	1.16	1.17	1.27 1.02	355	0.00	0
## 346	1.16	1.17	1.27 1.01	359	0.00	0
## 347	1.16	1.17	1.28 1.02	367	0.00	0
## 348	1.16	1.17	1.28 1.01	360	0.00	0
## 349	1.16	1.17	1.28 1.03	367	0.00	0
## 350	1.16	1.17	1.28 1.03	366	0.00	0
## 351	1.16	1.17	1.28 1.02	348	0.00	0
## 352	1.16	1.17	1.28 1.03	345	0.00	0
## 353	1.16	1.17	1.28 1.02	325	0.00	0
## 354	1.07	1.08	1.28 1.04	329	0.00	0
## 355	1.16	1.17	1.28 1.02	347	0.00	0
## 356	1.16	1.17	1.28 1.01	352	0.00	0
## 357	1.16	1.17	1.28 1.01	363	0.00	0
## 358	1.16	1.17	1.28 1.01	363	0.00	0
## 359	1.16	1.17	1.28 1.01	368	0.00	0
## 360	1.16	1.17	1.28 1.01	362	0.00	0
## 361	1.16	1.17	1.28 1.01	369	0.00	0
## 362	1.16	1.17	1.27 1.02	376	0.00	0
## 363	1.16	1.17	1.27 1.03	373	0.00	0
## 364	1.16	1.17	1.30 1.03	375	0.00	0
## 365	1.16	1.17	1.27 1.05	375	0.00	0
## 366	1.16	1.17	1.27 1.03	378	0.00	0
## 367	1.16	1.17	1.27 1.03	385	0.00	0
## 368	1.16	1.17	1.27 1.03	376	0.00	0
## 369	1.16	1.17	1.27 1.02	368	0.00	0
## 370	1.16	1.17	1.27 1.01	363	0.00	0
## 371	1.16	1.17	1.27 1.01	365	0.00	0
## 372	1.16	1.17	1.27 1.04	366	0.00	0
## 373	1.16	1.17	1.27 1.03	367	0.00	0

## 374	1.16	1.17	1.27 1.03	363	0.00	0
## 375	1.16	1.17	1.27 1.02	357	0.00	0
## 376	1.16	1.17	1.27 1.02	355	0.00	0
## 377	1.07	1.08	1.31 1.06	329	0.00	0
## 378	1.16	1.17	1.27 1.04	364	0.00	0
## 379	1.16	1.17	1.27 1.03	356	0.00	0
## 380	1.16	1.17	1.27 1.02	361	0.00	0
## 381	1.16	1.17	1.27 1.02	358	0.00	0
## 382	1.16	1.17	1.27 1.02	358	0.00	0
## 383	1.16	1.17	1.27 1.02	356	0.00	0
## 384	1.16	1.17	1.27 1.02	354	0.00	0
## 385	1.16	1.17	1.27 1.03	354	0.00	0
## 386	1.16	1.17	1.27 1.04	365	0.00	0
## 387	1.16	1.17	1.27 1.04	356	0.00	0
## 388	1.16	1.17	1.27 1.02	353	0.00	0
## 389	1.16	1.17	1.27 1.01	346	0.00	0
## 390	1.16	1.17	1.27 1.01	341	0.00	0
## 391	1.16	1.17	1.27 1.01	347	0.00	0
## 392	1.16	1.17	1.27 1.02	328	0.00	0
## 393	1.16	1.17	1.27 1.01	330	0.00	0
## 394	1.16	1.17	1.27 1.01	320	0.00	0
## 395	1.16	1.17	1.27 1.01	296	0.00	0
## 396	1.16	1.17	1.27 1.01	300	0.00	0
## 397	1.05	1.07	1.27 1.05	265	0.00	0
## 398	1.16	1.17	1.27 1.02	311	0.00	0
## 399	1.16	1.17	1.27 1.01	320	0.00	0
## 400	1.16	1.17	1.27 1.01	331	0.00	0
## 401	1.16	1.17	1.27 1.02	347	0.00	0
## 402	1.16	1.17	1.27 1.02	354	0.00	0
## 403	1.16	1.17	1.27 1.02	342	0.00	0
## 404	1.16	1.17	1.27 1.02	346	0.00	0
## 405	1.16	1.17	1.27 1.02	337	0.00	0
## 406	1.16	1.17	1.27 1.01	342	0.00	0
## 407	1.16	1.17	1.27 1.03	352	0.00	0
## 408	1.16	1.17	1.27 1.03	350	0.00	0
## 409	1.16	1.17	1.27 1.03	333	0.00	0
## 410	1.16	1.17	1.27 1.03	346	0.00	0
## 411	1.16	1.17	1.27 1.04	342	0.00	0
## 412	1.16	1.17	1.27 1.04	333	0.00	0
## 413	1.16	1.17	1.27 0.30	299	0.00	0
## 414	1.16	1.17	1.27 0.29	302	0.00	0
## 415	1.16	1.17	1.27 0.31	305	0.00	0
## 416	1.16	1.17	1.27 1.03	329	0.00	0
## 417	1.16	1.17	1.27 1.02	337	0.00	0
## 418	1.06	1.08	1.27 1.05	327	0.00	0
## 419	1.16	1.17	1.27 1.03	344	0.00	0
## 420	1.16	1.17	1.27 1.04	334	0.00	0
## 421	1.16	1.17	1.27 1.04	334	0.00	0
## 422	1.16	1.17	1.27 1.03	331	0.00	0
## 423	1.16	1.17	1.27 1.03	332	0.00	0
## 424	1.16	1.17	1.27 1.03	333	0.00	0
## 425	1.16	1.17	1.27 1.04	337	0.00	0
## 426	1.16	1.17	1.28 1.04	338	0.00	0
## 427	1.16	1.17	1.27 1.04	340	0.00	0



## 428	1.16	1.17	1.27 1.04	344	0.00	0
## 429	1.16	1.17	1.27 1.07	349	0.00	0
## 430	1.16	1.17	1.27 1.08	344	0.00	0
## 431	1.16	1.17	1.28 1.06	343	0.00	0
## 432	1.16	1.17	1.27 1.05	341	0.00	0
## 433	1.16	1.17	1.27 1.03	339	0.00	0
## 434	1.16	1.17	1.27 1.03	332	0.00	0
## 435	1.16	1.17	1.27 1.05	336	0.00	0
## 436	1.16	1.17	1.27 1.04	344	0.00	0
## 437	1.16	1.17	1.27 1.03	342	0.00	0
## 438	1.16	1.17	1.27 1.01	351	0.00	0
## 439	1.07	1.08	1.27 1.03	347	0.00	0
## 440	1.16	1.17	1.28 1.02	351	0.00	0
## 441	1.16	1.17	1.27 1.01	341	0.00	0
## 442	1.16	1.17	1.27 1.03	347	0.00	0
## 443	1.16	1.17	1.27 1.04	341	0.00	0
## 444	1.16	1.17	1.27 1.04	339	0.00	0
## 445	1.16	1.17	1.27 1.02	343	0.00	0
## 446	1.16	1.17	1.35 1.02	350	0.00	0
## 447	1.16	1.17	1.35 1.02	354	0.00	0
## 448	1.16	1.18	1.35 1.03	352	0.00	0
## 449	1.41	1.42	1.52 1.28	354	0.00	0
## 450	1.41	1.42	1.52 1.30	358	0.00	0
## 451	1.41	1.42	1.52 1.30	357	0.00	0
## 452	1.41	1.43	1.52 1.30	356	0.00	0
## 453	1.41	1.43	1.52 1.30	345	0.00	0
## 454	1.41	1.43	1.52 1.32	341	0.00	0
## 455	1.41	1.43	1.52 1.33	329	0.00	0
## 456	1.41	1.43	1.52 1.33	323	0.00	0
## 457	1.41	1.43	1.52 1.33	321	0.00	0
## 458	1.41	1.43	1.52 1.33	316	0.00	0
## 459	1.30	1.34	1.56 1.38	286	0.00	0
## 460	1.41	1.43	1.52 1.34	329	0.00	0
## 461	1.41	1.43	1.52 1.34	335	0.00	0
## 462	1.41	1.43	1.52 1.35	348	0.00	0
## 463	1.41	1.43	1.52 1.30	362	0.00	0
## 464	1.41	1.43	1.52 1.29	370	0.00	0
## 465	1.41	1.43	1.52 1.27	376	0.00	0
## 466	1.41	1.43	1.52 1.26	377	0.00	0
## 467	1.41	1.43	1.52 1.28	373	0.00	0
## 468	1.41	1.43	1.52 1.30	379	0.00	0
## 469	1.41	1.43	1.52 1.33	371	0.00	0
## 470	1.41	1.43	1.54 1.31	380	0.00	0
## 471	1.41	1.43	1.52 1.29	381	0.00	0
## 472	1.41	1.43	1.52 1.28	379	0.00	0
## 473	1.41	1.43	1.52 1.27	376	0.00	0
## 474	1.41	1.43	1.52 1.27	374	0.00	0
## 475	1.41	1.43	1.52 1.30	376	0.00	0
## 476	1.41	1.43	1.52 1.30	380	0.00	0
## 477	1.41	1.43	1.52 1.30	375	0.00	0
## 478	1.41	1.43	1.52 1.29	365	0.00	0
## 479	1.41	1.43	1.52 1.29	372	0.00	0
## 480	1.33	1.35	1.52 1.34	371	0.00	0
## 481	1.41	1.43	1.52 1.29	371	0.00	0

## 482	1.41	1.43	1.52 1.29	374	0.00	0
## 483	1.41	1.43	1.52 1.29	370	0.00	0
## 484	1.41	1.43	1.52 1.27	368	0.00	0
## 485	1.41	1.43	1.52 1.27	384	0.00	0
## 486	1.41	1.43	1.52 1.29	385	0.00	0
## 487	1.41	1.43	1.52 1.29	384	0.00	0
## 488	1.41	1.43	1.52 1.28	386	0.00	0
## 489	1.41	1.43	1.52 1.29	381	0.00	0
## 490	1.41	1.42	1.52 1.28	392	0.00	0
## 491	1.42	1.43	1.52 1.34	386	0.00	0
## 492	1.41	1.42	1.52 1.34	387	0.00	0
## 493	1.41	1.43	1.52 1.32	388	0.00	0
## 494	1.41	1.42	1.52 1.30	390	0.00	0
## 495	1.41	1.42	1.52 1.32	381	0.00	0
## 496	1.41	1.43	1.54 1.33	387	0.00	0
## 497	1.41	1.43	1.52 1.32	384	0.00	0
## 498	1.41	1.43	1.52 1.33	382	0.00	0
## 499	1.34	1.35	1.52 1.36	381	0.00	0
## 500	1.41	1.43	1.52 1.38	373	0.00	0
## 501	1.41	1.43	1.52 1.38	375	142.00	827
## 502	1.41	1.43	1.52 1.38	381	0.00	0
## 503	1.41	1.43	1.52 1.38	380	0.00	0
## 504	1.41	1.43	1.52 1.38	396	0.00	0
## 505	1.41	1.43	1.52 1.41	392	0.00	0
## 506	1.42	1.43	1.52 1.40	380	0.00	0
## 507	1.42	1.43	1.52 1.40	383	0.00	0
## 508	1.42	1.43	1.52 1.40	382	0.00	0
## 509	1.42	1.43	1.52 1.40	368	0.00	0
## 510	1.42	1.44	1.55 1.50	389	0.00	0
## 511	1.42	1.44	1.56 1.47	391	0.00	0
## 512	1.42	1.44	1.56 1.45	389	0.00	0
## 513	1.42	1.45	1.56 1.47	393	0.00	0
## 514	1.43	1.45	1.52 1.47	401	0.00	0
## 515	1.67	1.69	2.05 1.64	394	0.00	0
## 516	1.67	1.69	1.80 1.68	390	0.00	0
## 517	1.67	1.69	1.80 1.70	393	0.00	0
## 518	1.68	1.69	1.80 1.70	367	0.00	0
## 519	1.67	1.69	1.77 1.70	355	0.00	0
## 520	1.68	1.69	1.80 1.79	343	0.00	0
## 521	1.68	1.69	1.80 1.77	329	0.00	0
## 522	1.68	1.69	1.77 1.81	321	0.00	0
## 523	1.68	1.70	1.80 1.70	327	0.00	0
## 524	1.68	1.70	1.80 1.70	331	0.00	0
## 525	1.68	1.70	1.80 1.70	336	0.00	0
## 526	1.68	1.70	1.80 1.70	330	0.00	0
## 527	1.68	1.70	1.78 1.70	325	0.00	0
## 528	1.68	1.70	1.77 1.70	331	0.00	0
## 529	1.68	1.70	1.80 1.68	335	0.00	0
## 530	1.68	1.70	1.80 1.68	333	0.00	0
## 531	1.68	1.70	1.81 1.70	335	0.00	0
## 532	1.68	1.70	1.80 1.70	331	0.00	0
## 533	1.68	1.70	1.80 1.69	335	0.00	0
## 534	1.68	1.70	1.80 1.67	330	0.00	0
## 535	1.68	1.70	1.80 1.67	328	0.00	0

## 536	1.68	1.70	1.81 1.67	331	0.00	0
## 537	1.68	1.71	1.81 1.68	325	0.00	0
## 538	1.68	1.71	1.80 1.67	329	0.00	0
## 539	1.68	1.71	1.80 1.67	321	0.00	0
## 540	1.68	1.70	1.80 1.68	326	0.00	0
## 541	1.68	1.70	1.81 1.71	325	0.00	0
## 542	1.68	1.70	1.80 1.70	334	0.00	0
## 543	1.68	1.70	1.80 1.70	334	0.00	0
## 544	1.69	1.71	1.80 1.70	329	0.00	0
## 545	1.69	1.71	1.80 1.68	333	0.00	0
## 546	1.69	1.71	1.80 1.67	333	0.00	0
## 547	1.69	1.71	1.80 1.68	330	0.00	0
## 548	1.69	1.71	1.80 1.68	333	0.00	0
## 549	1.68	1.71	1.80 1.69	342	0.00	0
## 550	1.69	1.71	1.80 1.70	339	0.00	0
## 551	1.69	1.71	1.80 1.70	334	0.00	0
## 552	1.69	1.71	1.80 1.73	341	0.00	0
## 553	1.69	1.71	1.80 1.70	333	0.00	0
## 554	1.69	1.71	1.80 1.71	351	0.00	0
## 555	1.69	1.72	1.80 1.69	349	0.00	0
## 556	1.69	1.72	1.81 1.66	345	0.00	0
## 557	1.69	1.71	1.80 1.63	337	0.00	0
## 558	1.69	1.71	1.83 1.63	339	0.00	0
## 559	1.69	1.71	1.80 1.71	350	0.00	0
## 560	1.69	1.71	1.80 1.70	351	0.00	0
## 561	1.69	1.71	1.81 1.70	355	0.00	0
## 562	1.69	1.71	1.80 1.70	368	0.00	0
## 563	1.69	1.70	1.80 1.78	372	0.00	0
## 564	1.69	1.71	1.80 1.77	380	0.00	0
## 565	1.69	1.70	1.80 1.76	371	0.00	0
## 566	1.69	1.70	1.80 1.72	378	0.00	0
## 567	1.69	1.71	1.78 1.70	382	0.00	0
## 568	1.69	1.70	1.80 1.69	373	0.00	0
## 569	1.69	1.70	1.80 1.67	372	0.00	0
## 570	1.69	1.71	1.80 1.66	356	0.00	0
## 571	1.69	1.71	1.78 1.65	380	0.00	0
## 572	1.69	1.71	1.80 1.68	376	0.00	0
## 573	1.89	1.91	2.02 1.87	369	0.00	0
## 574	1.89	1.91	2.02 1.87	366	0.00	0
## 575	1.89	1.91	2.02 1.85	364	0.00	0
## 576	1.89	1.92	2.02 1.84	361	0.00	0
## 577	1.90	1.93	2.02 1.83	359	0.00	0
## 578	1.90	1.92	2.02 1.83	349	0.00	0
## 579	1.90	1.92	2.02 1.90	350	0.00	0
## 580	1.90	1.92	2.02 1.89	353	0.00	0
## 581	1.90	1.92	2.02 1.89	345	0.00	0
## 582	1.90	1.92	2.02 1.88	343	0.00	0
## 583	1.90	1.92	2.02 1.90	341	0.00	0
## 584	1.89	1.91	2.02 2.10	300	0.00	0
## 585	1.90	1.92	2.02 2.00	310	0.00	0
## 586	1.90	1.91	2.02 1.97	329	0.00	0
## 587	1.90	1.91	2.02 1.95	346	0.00	0
## 588	1.90	1.91	2.02 1.90	350	0.00	0
## 589	1.90	1.91	2.02 1.87	377	0.00	0

## 590	1.90	1.91	2.02 1.87	362	0.00	0
## 591	1.90	1.91	2.02 1.86	363	0.00	0
## 592	1.90	1.91	2.02 1.87	354	0.00	0
## 593	1.90	1.91	2.02 1.87	358	0.00	0
## 594	1.90	1.91	2.02 1.92	384	0.00	0
## 595	1.90	1.91	2.02 1.90	380	0.00	0
## 596	1.90	1.91	2.02 1.87	376	0.00	0
## 597	1.90	1.91	2.02 1.88	375	0.00	0
## 598	1.90	1.91	2.02 1.86	379	0.00	0
## 599	1.90	1.91	2.02 1.86	381	0.00	0
## 600	1.90	1.91	2.02 1.89	371	0.00	0
## 601	1.90	1.91	2.02 1.86	388	0.00	0
## 602	1.90	1.91	2.02 1.89	376	0.00	0
## 603	1.90	1.91	2.02 1.87	378	0.00	0
## 604	1.90	1.91	2.02 1.86	380	0.00	0
## 605	1.90	1.91	2.02 1.91	386	0.00	0
## 606	1.90	1.91	2.02 1.86	384	0.00	0
## 607	1.90	1.91	2.05 1.90	381	0.00	0
## 608	1.90	1.91	2.02 1.83	384	0.00	0
## 609	1.90	1.91	2.02 1.84	384	0.00	0
## 610	1.90	1.91	2.02 1.86	373	0.00	0
## 611	1.90	1.91	2.02 1.87	378	0.00	0
## 612	1.90	1.92	2.02 1.90	384	0.00	0
## 613	1.90	1.91	2.02 1.87	380	0.00	0
## 614	1.90	1.92	2.02 1.89	382	0.00	0
## 615	1.90	1.92	2.02 1.91	382	0.00	0
## 616	1.90	1.92	2.02 1.97	399	0.00	0
## 617	1.90	1.93	2.02 1.98	406	0.00	0
## 618	1.90	1.93	2.02 1.90	397	0.00	0
## 619	1.90	1.92	2.06 1.89	398	0.00	0
## 620	1.90	1.93	2.02 1.88	403	0.00	0
## 621	1.90	1.93	2.02 1.89	404	0.00	0
## 622	1.90	1.93	2.03 1.92	403	0.00	0
## 623	1.90	1.93	2.02 1.94	407	0.00	0
## 624	1.90	1.93	2.03 1.94	414	0.00	0
## 625	1.90	1.93	2.02 1.94	410	0.00	0
## 626	1.91	1.93	2.02 1.92	407	0.00	0
## 627	1.91	1.93	2.05 1.92	403	0.00	0
## 628	1.90	1.92	2.03 1.95	410	0.00	0
## 629	1.91	1.93	2.02 1.93	412	0.00	0
## 630	1.91	1.92	2.02 1.93	414	0.00	0
## 631	1.91	1.93	2.03 1.91	414	0.00	0
## 632	1.90	1.92	2.02 1.91	411	0.00	0
## 633	1.91	1.93	2.02 1.92	419	0.00	0
## 634	1.90	1.93	2.03 1.92	416	0.00	0
## 635	1.91	1.93	2.03 1.92	419	0.00	0
## 636	1.91	1.92	2.03 1.91	417	0.00	0
## 637	1.90	1.92	2.06 1.91	398	0.00	0
## 638	1.91	1.93	2.06 1.97	391	0.00	0
## 639	1.91	1.93	2.06 1.91	412	0.00	0
## 640	1.91	1.93	2.06 1.90	415	0.00	0
## 641	1.91	1.93	2.06 1.90	403	0.00	0
## 642	1.91	1.93	2.06 1.90	406	0.00	0
## 643	1.91	1.93	2.06 1.94	392	0.00	0

## 644	1.91	1.93	2.05 1.91	391	0.00	0
## 645	1.91	1.93	2.05 1.91	398	0.00	0
## 646	2.16	2.18	2.30 2.15	388	0.00	0
## 647	2.16	2.18	2.35 2.24	354	0.00	0
## 648	2.16	2.18	2.35 2.20	395	0.00	0
## 649	2.16	2.18	2.35 2.18	400	0.00	0
## 650	2.16	2.19	2.31 2.18	413	0.00	0
## 651	2.16	2.18	2.32 2.17	405	0.00	0
## 652	2.16	2.19	2.35 2.14	413	0.00	0
## 653	2.16	2.18	2.35 2.13	415	0.00	0
## 654	2.17	2.19	2.27 2.14	409	0.00	0
## 655	2.17	2.19	2.35 2.16	411	0.00	0
## 656	2.17	2.18	2.35 2.16	409	0.00	0
## 657	2.17	2.19	2.35 2.19	408	0.00	0
## 658	2.17	2.19	2.35 2.17	411	0.00	0
## 659	2.17	2.19	2.35 2.17	404	0.00	0
## 660	2.17	2.19	2.34 2.18	399	0.00	0
## 661	2.17	2.19	2.35 2.17	398	0.00	0
## 662	2.17	2.19	2.35 2.17	393	0.00	0
## 663	2.18	2.20	2.35 2.15	392	0.00	0
## 664	2.17	2.20	2.35 2.16	399	0.00	0
## 665	2.18	2.20	2.35 2.17	395	0.00	0
## 666	2.18	2.20	2.35 2.17	395	0.00	0
## 667	2.18	2.20	2.35 2.17	393	0.00	0
## 668	2.18	2.20	2.35 2.17	396	0.00	0
## 669	2.18	2.20	2.35 2.19	403	0.00	0
## 670	2.18	2.20	2.35 2.20	411	0.00	0
## 671	2.18	2.20	2.35 2.24	416	0.00	0
## 672	2.18	2.20	2.35 2.23	418	0.00	0
## 673	2.18	2.20	2.35 2.22	420	0.00	0
## 674	2.18	2.20	2.35 2.16	410	0.00	0
## 675	2.18	2.20	2.35 2.20	413	0.00	0
## 676	2.18	2.20	2.35 2.19	410	0.00	0
## 677	2.18	2.20	2.35 2.17	405	0.00	0
## 678	2.18	2.20	2.35 2.17	415	0.00	0
## 679	2.18	2.20	2.35 2.26	413	0.00	0
## 680	2.18	2.20	2.35 2.25	422	0.00	0
## 681	2.18	2.20	2.35 2.22	413	0.00	0
## 682	2.18	2.20	2.35 2.18	407	0.00	0
## 683	2.18	2.20	2.35 2.17	401	0.00	0
## 684	2.18	2.20	2.35 2.22	402	0.00	0
## 685	2.18	2.20	2.35 2.18	410	0.00	0
## 686	2.18	2.20	2.35 2.17	411	0.00	0
## 687	2.18	2.20	2.35 2.19	410	0.00	0
## 688	2.18	2.20	2.35 2.23	402	0.00	0
## 689	2.18	2.20	2.35 2.27	407	0.00	0
## 690	2.18	2.20	2.35 2.22	416	0.00	0
## 691	2.19	2.20	2.35 2.23	421	0.00	0
## 692	2.31	2.32	2.55 2.34	963	0.00	0
## 693	2.28	2.28	2.38 2.30	912	0.00	0
## 694	2.20	2.21	2.29 2.22	903	0.00	0
## 695	2.16	2.17	2.30 2.19	868	0.00	0
## 696	2.17	2.17	2.27 2.20	882	0.00	0
## 697	2.18	2.18	2.26 2.21	897	0.00	0

## 698	2.19	2.20	2.30 2.21	867	0.00	0
## 699	2.28	2.29	2.43 2.31	935	0.00	0
## 700	2.30	2.31	2.41 2.32	920	0.00	0
## 701	2.29	2.30	2.38 2.30	910	0.00	0
## 702	2.39	2.40	2.50 2.41	963	0.00	0
## 703	2.39	2.39	2.45 2.40	927	0.00	0
## 704	2.40	2.41	2.51 2.41	881	0.00	0
## 705	2.42	2.43	2.53 2.44	957	0.00	0
## 706	2.42	2.43	2.52 2.44	943	0.00	0
## 707	2.44	2.45	2.55 2.46	927	0.00	0
## 708	2.93	2.95	6.25 3.00	1000	0.00	0
## 709	3.05	3.10	3.50 3.15	1092	0.00	0
## 710	2.68	2.70	2.78 2.70	1063	0.00	0
## 711	2.43	2.43	2.51 2.45	1041	0.00	0
## 712	2.38	2.39	2.52 2.41	1052	0.00	0
## 713	2.40	2.41	2.52 2.42	1070	0.00	0
## 714	2.44	2.44	2.53 2.45	1032	0.00	0
## 715	2.41	2.41	2.50 2.43	1026	0.00	0
## 716	2.38	2.38	2.46 2.41	973	0.00	0
## 717	2.38	2.38	2.46 2.40	977	0.00	0
## 718	2.41	2.41	2.51 2.46	991	0.00	0
## 719	2.37	2.37	2.46 2.43	988	0.00	0
## 720	2.37	2.37	2.47 2.41	969	0.00	0
## 721	2.37	2.37	2.46 2.42	974	0.00	0
## 722	2.37	2.38	2.47 2.41	967	0.00	0
## 723	2.37	2.38	2.47 2.40	956	0.00	0
## 724	2.40	2.40	2.50 2.41	994	0.00	0
## 725	2.38	2.38	2.46 2.40	915	0.00	0
## 726	2.37	2.37	2.46 2.39	981	0.00	0
## 727	2.37	2.37	2.46 2.40	934	0.00	0
## 728	2.36	2.37	2.45 2.39	948	0.00	0
## 729	2.55	2.57	2.74 2.58	1048	0.00	0
## 730	2.44	2.45	2.54 2.47	993	0.00	0
## 731	2.38	2.39	2.47 2.40	964	0.00	0
## 732	2.36	2.37	2.46 2.40	932	0.00	0
## 733	2.35	2.35	2.48 2.38	942	0.00	0
## 734	2.36	2.36	2.45 2.38	918	0.00	0
## 735	2.35	2.35	2.44 2.37	912	0.00	0
## 736	2.39	2.40	2.48 2.40	984	0.00	0
## 737	2.36	2.36	2.47 2.39	920	0.00	0
## 738	2.36	2.36	2.46 2.38	928	0.00	0
## 739	2.36	2.37	2.46 2.39	862	0.00	0
## 740	2.41	2.42	2.50 2.43	913	0.00	0
## 741	2.37	2.38	2.49 2.40	941	0.00	0
## 742	2.37	2.38	2.47 2.39	913	0.00	0
## 743	2.37	2.37	2.46 2.39	886	0.00	0
## 744	2.37	2.38	2.46 2.40	894	0.00	0
## 745	2.37	2.37	2.45 2.38	938	0.00	0
## 746	2.37	2.37	2.46 2.38	919	0.00	0
## 747	2.36	2.37	2.45 2.37	898	0.00	0
## 748	2.55	2.58	2.75 2.58	1003	0.00	0
## 749	2.36	2.37	2.46 2.38	1007	0.00	0
## 750	2.36	2.37	2.45 2.38	965	0.00	0
## 751	2.36	2.36	2.45 2.38	956	0.00	0

## 752	2.35	2.36	2.45 2.38	977	0.00	0
## 753	2.37	2.37	2.46 2.38	972	0.00	0
## 754	2.36	2.36	2.45 2.39	954	0.00	0
## 755	2.36	2.36	2.45 2.38	949	0.00	0
## 756	2.37	2.37	2.48 2.39	916	0.00	0
## 757	2.38	2.38	2.48 2.40	925	0.00	0
## 758	2.38	2.39	2.48 2.42	879	0.00	0
## 759	2.43	2.43	2.54 2.46	940	0.00	0
## 760	2.38	2.38	2.48 2.41	942	0.00	0
## 761	2.40	2.41	2.56 2.42	945	0.00	0
## 762	2.45	2.46	2.57 2.47	928	0.00	0
## 763	2.42	2.43	2.51 2.44	921	0.00	0
## 764	2.38	2.38	2.46 2.40	889	0.00	0
## 765	2.37	2.37	2.46 2.40	919	0.00	0
## 766	2.37	2.38	2.50 2.40	901	0.00	0
## 767	2.38	2.38	2.47 2.40	879	0.00	0
## 768	2.42	2.42	2.51 2.43	898	0.00	0
## 769	2.55	2.60	2.95 2.65	897	0.00	0
## 770	2.41	2.42	2.65 2.46	978	0.00	0
## 771	2.43	2.44	2.58 2.46	978	0.00	0
## 772	2.43	2.43	2.53 2.47	987	0.00	0
## 773	2.43	2.43	2.55 2.46	1000	0.00	0
## 774	2.43	2.44	2.54 2.46	976	0.00	0
## 775	2.43	2.43	2.53 2.46	949	0.00	0
## 776	2.42	2.43	2.52 2.45	970	0.00	0
## 777	2.42	2.42	2.51 2.45	945	0.00	0
## 778	2.40	2.41	2.49 2.44	974	0.00	0
## 779	2.40	2.40	2.52 2.44	955	0.00	0
## 780	2.43	2.43	2.60 2.47	968	0.00	0
## 781	2.43	2.43	2.70 2.47	961	0.00	0
## 782	2.47	2.47	2.60 2.50	954	0.00	0
## 783	2.46	2.46	2.56 2.50	979	0.00	0
## 784	2.42	2.44	2.60 2.43	72	0.00	0
## 785	2.42	2.45	2.60 2.42	110	0.00	0
## 786	2.43	2.45	2.60 2.42	106	0.00	0
## 787	2.43	2.45	2.60 2.42	112	0.00	0
## 788	2.43	2.45	2.60 2.42	118	0.00	0
## 789	2.43	2.45	2.60 2.43	122	0.00	0
## 790	2.43	2.45	2.60 2.42	119	0.00	0
## 791	2.43	2.45	2.60 2.45	117	0.00	0
## 792	2.43	2.45	2.56 2.44	155	0.00	0
## 793	2.40	2.41	2.55 2.40	170	0.00	0
## 794	2.39	2.41	2.55 2.40	156	0.00	0
## 795	2.38	2.41	2.55 2.38	160	0.00	0
## 796	2.38	2.40	2.55 2.38	160	0.00	0
## 797	2.37	2.40	2.55 2.38	158	0.00	0
## 798	2.36	2.40	2.55 2.37	154	0.00	0
## 799	2.36	2.40	2.53 2.37	156	0.00	0
## 800	2.36	2.39	2.55 2.36	161	0.00	0
## 801	2.36	2.39	2.53 2.37	143	0.00	0
## 802	2.39	2.40	2.53 2.39	148	0.00	0
## 803	2.38	2.40	2.55 2.38	160	0.00	0
## 804	2.38	2.40	2.55 2.37	167	0.00	0
## 805	2.38	2.39	2.55 2.38	152	0.00	0

## 806	2.37	2.39	2.55 2.37	169	0.00	0
## 807	2.37	2.39	2.55 2.37	172	0.00	0
## 808	2.37	2.39	2.55 2.36	169	0.00	0
## 809	2.37	2.39	2.55 2.37	161	0.00	0
## 810	2.38	2.39	2.55 2.37	161	0.00	0
## 811	2.38	2.39	2.55 2.37	161	0.00	0
## 812	2.37	2.39	2.55 2.37	158	0.00	0
## 813	2.38	2.40	2.58 2.38	156	0.00	0
## 814	2.36	2.39	2.50 2.37	158	0.00	0
## 815	2.35	2.39	2.50 2.37	164	0.00	0
## 816	2.35	2.39	2.50 2.37	164	0.00	0
## 817	2.35	2.38	2.48 2.36	176	0.00	0
## 818	2.35	2.38	2.45 2.36	163	0.00	0
## 819	2.36	2.38	2.46 2.37	158	0.00	0
## 820	2.35	2.38	2.45 2.36	174	0.00	0
## 821	2.35	2.38	2.45 2.35	175	0.00	0
## 822	2.35	2.38	2.45 2.35	180	0.00	0
## 823	2.35	2.37	2.45 2.35	169	0.00	0
## 824	2.37	2.38	2.45 2.37	147	0.00	0
## 825	2.37	2.38	2.45 2.37	159	0.00	0
## 826	2.36	2.38	2.45 2.36	163	0.00	0
## 827	2.36	2.38	2.45 2.36	165	0.00	0
## 828	2.36	2.38	2.45 2.37	167	0.00	0
## 829	2.37	2.38	2.45 2.37	164	0.00	0
## 830	2.37	2.39	2.45 2.37	164	0.00	0
## 831	2.35	2.39	2.45 2.37	172	0.00	0
## 832	2.35	2.39	2.44 2.36	180	0.00	0
## 833	2.38	2.40	2.43 2.38	153	0.00	0
## 834	2.37	2.40	2.45 2.38	161	0.00	0
## 835	2.40	2.40	2.44 2.40	170	0.00	0
## 836	2.40	2.42	2.45 2.40	156	0.00	0
## 837	2.40	2.43	2.45 2.40	163	0.00	0
## 838	2.40	2.42	2.43 2.40	167	0.00	0
## 839	2.39	2.42	2.43 2.40	176	0.00	0
## 840	2.38	2.42	2.43 2.40	167	0.00	0
## 841	2.37	2.41	2.44 2.38	172	0.00	0
## 842	2.36	2.39	2.43 2.37	156	0.00	0
## 843	2.39	2.40	2.43 2.39	146	0.00	0
## 844	2.40	2.42	2.43 2.40	149	0.00	0
## 845	2.40	2.42	2.43 2.39	158	0.00	0
## 846	2.40	2.42	2.45 2.38	163	0.00	0
## 847	2.39	2.41	2.43 2.40	148	0.00	0
## 848	2.40	2.41	2.43 2.40	155	0.00	0
## 849	2.39	2.41	2.43 2.39	157	0.00	0
## 850	2.38	2.41	2.43 2.38	165	0.00	0
## 851	2.38	2.41	2.43 2.37	175	0.00	0
## 852	2.36	2.41	2.43 2.37	182	0.00	0
## 853	2.37	2.41	2.43 2.37	181	0.00	0
## 854	2.37	2.41	2.45 2.37	182	0.00	0
## 855	2.37	2.41	2.43 2.37	180	0.00	0
## 856	2.10	2.15	2.20 2.12	184	0.00	0
## 857	2.10	2.15	2.18 2.10	185	0.00	0
## 858	2.10	2.14	2.18 2.10	183	0.00	0
## 859	2.10	2.14	2.18 2.11	175	0.00	0



## 860	2.10	2.13	2.18 2.10	188	0.00	0
## 861	2.10	2.13	2.18 2.10	182	0.00	0
## 862	2.10	2.13	2.18 2.10	187	0.00	0
## 863	2.10	2.13	2.18 2.10	184	0.00	0
## 864	2.10	2.13	2.18 2.11	174	0.00	0
## 865	2.10	2.13	2.18 2.10	167	0.00	0
## 866	2.11	2.13	2.18 2.10	171	0.00	0
## 867	2.11	2.14	2.18 2.11	172	0.00	0
## 868	2.11	2.13	2.18 2.10	175	0.00	0
## 869	2.11	2.14	2.18 2.10	174	0.00	0
## 870	2.11	2.13	2.18 2.11	185	0.00	0
## 871	2.11	2.13	2.18 2.10	186	0.00	0
## 872	2.11	2.13	2.18 2.10	173	0.00	0
## 873	2.11	2.13	2.18 2.10	171	0.00	0
## 874	2.11	2.13	2.18 2.11	171	0.00	0
## 875	2.10	2.13	2.18 2.11	167	0.00	0
## 876	2.10	2.13	2.18 2.10	167	0.00	0
## 877	2.11	2.13	2.18 2.11	179	0.00	0
## 878	2.11	2.14	2.20 2.12	163	0.00	0
## 879	2.11	2.14	2.18 2.11	163	0.00	0
## 880	2.11	2.14	2.18 2.11	165	0.00	0
## 881	2.11	2.14	2.16 2.11	160	0.00	0
## 882	2.11	2.14	2.18 2.11	155	0.00	0
## 883	2.11	2.14	2.17 2.11	144	0.00	0
## 884	2.11	2.14	2.17 2.11	156	0.00	0
## 885	2.12	2.14	2.16 2.13	142	0.00	0
## 886	2.13	2.15	2.18 2.14	123	0.00	0
## 887	2.16	2.45	3.00 2.18	110	0.00	0
## 888	2.15	2.50	4.00 2.25	141	0.00	0
## 889	2.18	2.25	2.50 2.18	158	0.00	0
## 890	1.85	1.90	1.95 1.85	160	0.00	0
## 891	1.85	1.90	1.95 1.85	162	0.00	0
## 892	1.85	1.90	1.95 1.85	158	0.00	0
## 893	1.85	1.92	1.95 1.85	159	0.00	0
## 894	1.85	1.93	1.95 1.85	171	0.00	0
## 895	1.80	1.89	1.94 1.83	181	0.00	0
## 896	1.80	1.87	1.91 1.82	183	0.00	0
## 897	1.90	1.95	2.00 1.90	140	0.00	0
## 898	1.82	1.89	1.91 1.85	160	0.00	0
## 899	1.80	1.88	1.92 1.84	182	0.00	0
## 900	1.80	1.87	1.90 1.82	176	0.00	0
## 901	1.80	1.85	1.90 1.81	173	0.00	0
## 902	1.80	1.83	1.88 1.80	172	0.00	0
## 903	1.80	1.83	1.89 1.80	157	0.00	0
## 904	1.80	1.83	1.88 1.80	153	0.00	0
## 905	1.80	1.83	1.90 1.81	153	0.00	0
## 906	1.80	1.83	1.88 1.81	150	0.00	0
## 907	1.85	1.90	1.95 1.90	158	0.00	0
## 908	1.85	1.95	2.00 1.88	181	0.00	0
## 909	1.85	1.88	1.90 1.85	165	0.00	0
## 910	1.84	1.85	1.90 1.83	160	0.00	0
## 911	1.83	1.85	1.89 1.82	163	0.00	0
## 912	1.82	1.85	1.88 1.83	173	0.00	0
## 913	1.81	1.85	1.90 1.82	175	0.00	0

## 914	1.82	1.85	1.89 1.82	173	0.00	0
## 915	1.81	1.84	1.89 1.81	180	0.00	0
## 916	1.81	1.83	1.88 1.80	183	0.00	0
## 917	1.80	1.83	1.88 1.80	174	0.00	0
## 918	1.80	1.83	1.88 1.80	178	0.00	0
## 919	1.57	1.60	1.68 1.57	172	0.00	0
## 920	1.55	1.58	1.63 1.56	176	0.00	0
## 921	1.55	1.57	1.61 1.55	205	0.00	0
## 922	1.55	1.56	1.63 1.55	192	0.00	0
## 923	1.54	1.56	1.63 1.55	181	0.00	0
## 924	1.54	1.56	1.63 1.55	168	0.00	0
## 925	1.55	1.56	1.62 1.55	168	0.00	0
## 926	1.55	1.57	1.62 1.55	161	0.00	0
## 927	1.54	1.56	1.62 1.55	172	0.00	0
## 928	1.54	1.57	1.63 1.55	155	0.00	0
## 929	1.54	1.56	1.62 1.55	159	0.00	0
## 930	1.55	1.57	1.63 1.55	160	0.00	0
## 931	1.55	1.57	1.64 1.55	156	0.00	0
## 932	1.55	1.57	1.64 1.55	168	0.00	0
## 933	1.55	1.57	1.64 1.55	175	0.00	0
## 934	1.55	1.57	1.63 1.55	164	0.00	0
## 935	1.54	1.56	1.65 1.55	179	0.00	0
## 936	1.54	1.56	1.63 1.54	171	0.00	0
## 937	1.54	1.56	1.63 1.54	154	0.00	0
## 938	1.55	1.58	1.63 1.55	183	0.00	0
## 939	1.55	1.57	1.63 1.55	162	0.00	0
## 940	1.54	1.56	1.63 1.55	160	0.00	0
## 941	1.54	1.56	1.63 1.54	170	0.00	0
## 942	1.54	1.56	1.62 1.54	165	0.00	0
## 943	1.54	1.56	1.61 1.54	184	0.00	0
## 944	1.54	1.56	1.61 1.54	175	0.00	0
## 945	1.54	1.56	1.60 1.54	184	0.00	0
## 946	1.54	1.56	1.61 1.54	179	0.00	0
## 947	1.54	1.56	1.60 1.54	179	0.00	0
## 948	1.54	1.56	1.61 1.54	161	0.00	0
## 949	1.55	1.60	1.61 1.55	170	0.00	0
## 950	1.54	1.56	1.60 1.54	166	0.00	0
## 951	1.54	1.56	1.61 1.54	185	0.00	0
## 952	1.54	1.56	1.61 1.54	178	0.00	0
## 953	1.54	1.56	1.61 1.54	179	0.00	0
## 954	1.54	1.56	1.62 1.54	191	0.00	0
## 955	1.54	1.56	1.61 1.54	195	0.00	0
## 956	1.54	1.56	1.61 1.54	208	0.00	0
## 957	1.54	1.56	1.60 1.54	188	0.00	0
## 958	1.54	1.56	1.61 1.54	196	0.00	0
## 959	1.53	1.58	1.65 1.55	99	0.00	0
## 960	1.54	1.55	1.61 1.54	170	0.00	0
## 961	1.54	1.55	1.61 1.54	187	0.00	0
## 962	1.54	1.55	1.60 1.54	178	0.00	0
## 963	1.54	1.55	1.60 1.54	182	0.00	0
## 964	1.54	1.55	1.60 1.54	186	0.00	0
## 965	1.54	1.55	1.60 1.54	192	0.00	0
## 966	1.54	1.55	1.60 1.54	192	0.00	0
## 967	1.54	1.55	1.60 1.54	190	0.00	0

## 968	1.54	1.55	1.60 1.54	179	0.00	0
## 969	1.54	1.55	1.60 1.54	174	0.00	0
## 970	1.54	1.55	1.60 1.54	177	0.00	0
## 971	1.54	1.56	1.61 1.54	162	0.00	0
## 972	1.54	1.56	1.62 1.54	164	0.00	0
## 973	1.54	1.56	1.63 1.54	176	0.00	0
## 974	1.54	1.56	1.65 1.54	175	0.00	0
## 975	1.54	1.56	1.61 1.54	179	0.00	0
## 976	1.54	1.56	1.65 1.54	185	0.00	0
## 977	1.54	1.56	1.63 1.54	176	0.00	0
## 978	1.54	1.56	1.65 1.54	184	0.00	0
## 979	1.59	1.61	1.68 1.58	176	0.00	0
## 980	1.58	1.61	1.66 1.58	193	0.00	0
## 981	1.58	1.60	1.66 1.58	188	0.00	0
## 982	1.58	1.60	1.65 1.58	202	0.00	0
## 983	1.58	1.59	1.65 1.58	199	0.00	0
## 984	1.58	1.59	1.65 1.58	192	0.00	0
## 985	1.58	1.59	1.65 1.58	194	0.00	0
## 986	1.58	1.59	1.65 1.58	185	0.00	0
## 987	1.58	1.60	1.65 1.58	179	0.00	0
## 988	1.58	1.59	1.64 1.58	181	0.00	0
## 989	1.58	1.60	1.64 1.58	170	0.00	0
## 990	1.58	1.60	1.64 1.58	148	0.00	0
## 991	1.58	1.60	1.65 1.58	153	0.00	0
## 992	1.58	1.60	1.65 1.58	162	0.00	0
## 993	1.58	1.60	1.65 1.58	163	0.00	0
## 994	1.58	1.60	1.65 1.58	174	0.00	0
## 995	1.58	1.60	1.65 1.58	172	0.00	0
## 996	1.58	1.60	1.65 1.58	157	0.00	0
## 997	1.58	1.60	1.65 1.58	155	0.00	0
## 998	1.58	1.59	1.65 1.58	165	0.00	0
## 999	1.58	1.60	1.65 1.58	154	0.00	0
## 1000	1.58	1.60	1.65 1.58	149	0.00	0
## 1001	1.58	1.60	1.65 1.58	158	0.00	0
## 1002	1.08	1.10	1.15 1.08	194	0.00	0
## 1003	1.08	1.10	1.15 1.08	176	0.00	0
## 1004	1.08	1.09	1.15 1.08	163	0.00	0
## 1005	1.08	1.10	1.15 1.08	178	0.00	0
## 1006	1.08	1.10	1.15 1.09	169	0.00	0
## 1007	1.08	1.10	1.15 1.09	176	0.00	0
## 1008	1.08	1.12	1.15 1.10	152	0.00	0
## 1009	1.08	1.12	1.30 1.10	153	0.00	0
## 1010	0.10	0.50	0.50 0.15	186	0.00	0
## 1011	0.10	0.35	0.55 0.20	201	0.00	0
## 1012	0.15	0.50	0.50 0.20	198	0.00	0
## 1013	0.09	0.30	0.50 0.12	228	0.00	0
## 1014	0.10	0.25	0.50 0.15	215	0.00	0
## 1015	0.10	0.25	0.50 0.10	212	0.00	0
## 1016	0.09	0.25	0.50 0.10	235	0.00	0
## 1017	0.08	0.20	0.50 0.10	261	0.00	0
## 1018	0.08	0.15	0.40 0.08	276	0.00	0
## 1019	0.07	0.10	0.35 0.08	274	0.00	0
## 1020	0.07	0.13	0.25 0.08	257	0.00	0
## 1021	0.05	0.15	0.25 0.06	183	0.00	0

## 1022	0.05	0.08	0.20 0.05	250	0.00	0
## 1023	0.05	0.08	0.19 0.05	239	0.00	0
## 1024	0.05	0.08	0.17 0.05	249	0.00	0
## 1025	0.05	0.06	0.16 0.05	251	0.00	0
## 1026	0.05	0.06	0.16 0.05	256	0.00	0
## 1027	0.05	0.05	0.16 0.05	240	0.00	0
## 1028	0.05	0.06	0.17 0.05	108	0.00	0
## 1029	0.01	0.02	0.06 0.02	479	0.00	0
## 1030	0.05	0.06	0.07 0.05	497	0.00	0
## 1031	0.03	0.03	0.05 0.03	484	0.00	0
## 1032	0.02	0.02	0.05 0.02	477	0.00	0
## 1033	0.02	0.02	0.05 0.02	489	0.00	0
## 1034	0.01	0.02	0.05 0.01	484	0.00	0
## 1035	0.01	0.01	0.05 0.01	492	0.00	0
## 1036	0.01	0.01	0.05 0.01	486	0.00	0
## 1037	0.01	0.01	0.05 0.01	489	0.00	0
## 1038	0.02	0.03	0.06 0.03	502	0.00	0
## 1039	0.02	0.03	0.06 0.02	500	0.00	0
## 1040	0.01	0.01	0.05 0.01	500	0.00	0
## 1041	0.01	0.01	0.04 0.01	493	0.00	0
## 1042	0.02	0.03	0.05 0.02	501	0.00	0
## 1043	0.02	0.03	0.06 0.02	482	0.00	0
## 1044	0.04	0.05	0.09 0.04	490	0.00	0
## 1045	0.04	0.04	0.10 0.04	489	0.00	0
## 1046	0.04	0.04	0.10 0.04	473	0.00	0
## 1047	0.04	0.05	0.11 0.05	475	0.00	0
## 1048	0.05	0.05	0.11 0.05	473	0.00	0
## 1049	0.05	0.05	0.11 0.05	475	0.00	0
## 1050	0.05	0.06	0.07 0.05	471	0.00	0
## 1051	0.04	0.04	0.05 0.04	471	0.00	0
## 1052	0.01	0.01	0.05 0.01	459	0.00	0
## 1053	0.04	0.04	0.05 0.04	471	0.00	0
## 1054	0.02	0.03	0.05 0.03	473	0.00	0
## 1055	0.03	0.03	0.08 0.03	474	0.00	0
## 1056	0.01	0.01	0.05 0.01	472	0.00	0
## 1057	0.01	0.01	0.05 0.01	485	0.00	0
## 1058	0.03	0.03	0.09 0.03	473	0.00	0
## 1059	0.05	0.05	0.12 0.05	462	0.00	0
## 1060	0.04	0.05	0.11 0.04	461	0.00	0
## 1061	0.05	0.06	0.12 0.05	449	0.00	0
## 1062	0.05	0.05	0.11 0.05	451	0.00	0
## 1063	0.05	0.05	0.12 0.05	454	0.00	0
## 1064	0.05	0.06	0.13 0.05	446	0.00	0
## 1065	0.05	0.05	0.12 0.05	447	0.00	0
## 1066	0.05	0.06	0.13 0.06	443	0.00	0
## 1067	0.06	0.06	0.12 0.06	440	0.00	0
## 1068	0.06	0.06	0.12 0.06	440	0.00	0
## 1069	0.06	0.06	0.13 0.06	440	0.00	0
## 1070	0.06	0.06	0.12 0.06	435	0.00	0
## 1071	0.06	0.06	0.12 0.06	424	0.00	0
## 1072	0.06	0.06	0.13 0.06	433	0.00	0
## 1073	0.07	0.07	0.13 0.07	421	0.00	0
## 1074	0.07	0.07	0.13 0.07	424	0.00	0
## 1075	0.07	0.07	0.13 0.07	431	0.00	0

## 1076	0.06	0.07	0.12 0.07	431	0.00	0
## 1077	0.06	0.06	0.13 0.06	424	0.00	0
## 1078	0.06	0.06	0.13 0.06	421	0.00	0
## 1079	0.05	0.05	0.11 0.05	427	0.00	0
## 1080	0.06	0.06	0.12 0.06	425	0.00	0
## 1081	0.06	0.07	0.13 0.06	419	0.00	0
## 1082	0.06	0.06	0.12 0.06	406	0.00	0
## 1083	0.06	0.06	0.13 0.06	406	0.00	0
## 1084	0.07	0.07	0.14 0.07	411	0.00	0
## 1085	0.07	0.07	0.13 0.07	420	0.00	0
## 1086	0.07	0.08	0.14 0.07	398	0.00	0
## 1087	0.08	0.15	0.21 0.09	65	0.00	0
## 1088	0.08	0.15	0.21 0.09	62	0.00	0
## 1089	0.08	0.13	0.20 0.09	59	0.00	0
## 1090	0.08	0.14	0.20 0.09	59	0.00	0
## 1091	0.08	0.14	0.19 0.09	60	0.00	0
## 1092	0.08	0.14	0.20 0.09	56	0.00	0
## 1093	0.09	0.15	0.20 0.09	54	0.00	0
## 1094	0.11	0.17	0.24 0.09	54	0.00	0
## 1095	0.08	0.14	0.20 0.10	55	0.00	0
## 1096	0.09	0.15	0.20 0.10	55	0.00	0
## 1097	0.09	0.14	0.20 0.09	49	0.00	0
## 1098	0.08	0.14	0.20 0.10	43	0.00	0
## 1099	0.08	0.13	0.20 0.10	44	0.00	0
## 1100	0.08	0.13	0.20 0.09	47	0.00	0
## 1101	0.08	0.13	0.19 0.09	50	0.00	0
## 1102	0.08	0.14	0.19 0.09	45	0.00	0
## 1103	0.08	0.13	0.19 0.10	46	0.00	0
## 1104	0.07	0.12	0.19 0.10	47	0.00	0
## 1105	0.07	0.12	0.18 0.10	46	0.00	0
## 1106	0.08	0.14	0.20 0.10	56	0.00	0
## 1107	0.08	0.13	0.18 0.10	50	0.00	0
## 1108	0.07	0.13	0.18 0.10	51	0.00	0
## 1109	0.07	0.12	0.18 0.10	53	0.00	0
## 1110	0.07	0.12	0.19 0.10	53	0.00	0
## 1111	0.07	0.12	0.19 0.10	56	0.00	0
## 1112	0.07	0.12	0.19 0.10	54	0.00	0
## 1113	0.07	0.12	0.18 0.10	51	0.00	0
## 1114	0.07	0.12	0.18 0.10	54	0.00	0
## 1115	0.07	0.12	0.18 0.10	55	0.00	0
## 1116	0.07	0.12	0.18 0.10	56	0.00	0
## 1117	0.07	0.13	0.19 0.10	56	0.00	0
## 1118	0.07	0.12	0.18 0.10	57	0.00	0
## 1119	0.07	0.12	0.18 0.09	57	0.00	0
## 1120	0.05	0.09	0.16 0.09	58	0.00	0
## 1121	0.05	0.10	0.16 0.09	59	0.00	0
## 1122	0.06	0.11	0.16 0.09	59	0.00	0
## 1123	0.06	0.11	0.17 0.09	58	0.00	0
## 1124	0.05	0.10	0.16 0.09	66	0.00	0
## 1125	0.05	0.10	0.16 0.09	65	0.00	0
## 1126	0.05	0.10	0.16 0.08	69	0.00	0
## 1127	0.07	0.13	0.19 0.09	66	0.00	0
## 1128	0.06	0.12	0.17 0.09	63	0.00	0
## 1129	0.06	0.12	0.17 0.09	62	0.00	0

## 1130	0.06	0.12	0.17 0.09	63	0.00	0
## 1131	0.07	0.13	0.18 0.09	63	0.00	0
## 1132	0.07	0.13	0.19 0.09	59	0.00	0
## 1133	0.07	0.12	0.18 0.09	63	0.00	0
## 1134	0.07	0.13	0.19 0.09	59	0.00	0
## 1135	0.07	0.12	0.18 0.09	64	0.00	0
## 1136	0.07	0.12	0.18 0.09	52	0.00	0
## 1137	0.07	0.13	0.19 0.09	57	0.00	0
## 1138	0.07	0.13	0.19 0.09	55	0.00	0
## 1139	0.07	0.13	0.19 0.09	61	0.00	0
## 1140	0.07	0.12	0.18 0.09	73	0.00	0
## 1141	0.06	0.11	0.18 0.09	68	0.00	0
## 1142	0.05	0.09	0.16 0.09	64	0.00	0
## 1143	0.04	0.08	0.16 0.09	66	0.00	0
## 1144	0.04	0.09	0.15 0.09	70	0.00	0
## 1145	0.06	0.11	0.17 0.09	72	0.00	0
## 1146	0.06	0.11	0.17 0.09	68	0.00	0
## 1147	0.05	0.10	0.16 0.09	70	0.00	0
## 1148	0.06	0.11	0.17 0.09	64	0.00	0
## 1149	0.05	0.11	0.16 0.09	47	0.00	0
## 1150	0.06	0.12	0.17 0.09	61	0.00	0
## 1151	0.07	0.12	0.18 0.09	55	0.00	0
## 1152	0.07	0.12	0.18 0.09	57	0.00	0
## 1153	0.07	0.12	0.18 0.09	61	0.00	0
## 1154	0.06	0.10	0.16 0.09	58	0.00	0
## 1155	0.06	0.11	0.17 0.09	56	0.00	0
## 1156	0.07	0.12	0.17 0.09	52	0.00	0
## 1157	0.06	0.11	0.17 0.09	54	0.00	0
## 1158	0.07	0.13	0.18 0.09	54	0.00	0
## 1159	0.06	0.11	0.17 0.09	58	0.00	0
## 1160	0.06	0.11	0.17 0.09	59	0.00	0
## 1161	0.06	0.10	0.17 0.09	54	0.00	0
## 1162	0.05	0.09	0.16 0.09	54	0.00	0
## 1163	0.05	0.09	0.15 0.09	59	0.00	0
## 1164	0.06	0.10	0.16 0.09	61	0.00	0
## 1165	0.06	0.11	0.16 0.09	57	0.00	0
## 1166	0.07	0.11	0.16 0.09	58	0.00	0
## 1167	0.06	0.10	0.16 0.09	60	0.00	0
## 1168	0.06	0.10	0.16 0.09	59	0.00	0
## 1169	0.07	0.12	0.18 0.09	59	0.00	0
## 1170	0.07	0.13	0.17 0.09	56	0.00	0
## 1171	0.07	0.12	0.17 0.09	58	0.00	0
## 1172	0.08	0.13	0.18 0.09	64	0.00	0
## 1173	0.08	0.13	0.18 0.09	67	0.00	0
## 1174	0.08	0.13	0.18 0.09	65	0.00	0
## 1175	0.08	0.12	0.18 0.09	61	0.00	0
## 1176	0.07	0.12	0.17 0.09	57	0.00	0
## 1177	0.07	0.11	0.17 0.09	57	0.00	0
## 1178	0.07	0.11	0.17 0.09	57	0.00	0
## 1179	0.08	0.12	0.18 0.09	55	0.00	0
## 1180	0.07	0.11	0.17 0.09	58	0.00	0
## 1181	0.05	0.09	0.16 0.09	60	0.00	0
## 1182	0.04	0.07	0.13 0.09	60	0.00	0
## 1183	0.04	0.07	0.13 0.08	62	0.00	0

## 1184	0.04	0.07	0.13 0.08	64	0.00	0
## 1185	0.05	0.09	0.14 0.08	62	0.00	0
## 1186	0.06	0.10	0.15 0.08	62	0.00	0
## 1187	0.06	0.10	0.16 0.08	66	0.00	0
## 1188	0.08	0.12	0.17 0.08	61	0.00	0
## 1189	0.06	0.10	0.16 0.09	57	0.00	0
## 1190	0.06	0.10	0.15 0.09	56	0.00	0
## 1191	0.06	0.10	0.16 0.09	55	0.00	0
## 1192	0.07	0.11	0.16 0.09	60	0.00	0
## 1193	0.07	0.11	0.17 0.09	56	0.00	0
## 1194	0.06	0.09	0.16 0.09	57	0.00	0
## 1195	0.06	0.09	0.15 0.09	57	0.00	0
## 1196	0.06	0.09	0.15 0.09	57	0.00	0
## 1197	0.06	0.10	0.15 0.09	57	0.00	0
## 1198	0.06	0.09	0.15 0.09	51	0.00	0
## 1199	0.07	0.11	0.16 0.09	51	0.00	0
## 1200	0.07	0.11	0.16 0.09	50	0.00	0
## 1201	0.07	0.11	0.16 0.09	57	0.00	0
## 1202	0.07	0.11	0.16 0.09	58	0.00	0
## 1203	0.07	0.11	0.16 0.09	57	0.00	0
## 1204	0.06	0.09	0.15 0.09	66	0.00	0
## 1205	0.05	0.07	0.15 0.09	66	0.00	0
## 1206	0.06	0.10	0.15 0.09	70	0.00	0
## 1207	0.07	0.12	0.16 0.09	70	0.00	0
## 1208	0.08	0.12	0.17 0.09	73	0.00	0
## 1209	0.08	0.12	0.17 0.09	69	0.00	0
## 1210	0.06	0.10	0.17 0.09	62	0.00	0
## 1211	0.07	0.12	0.17 0.09	34	0.00	0
## 1212	0.08	0.13	0.18 0.09	57	0.00	0
## 1213	0.08	0.13	0.18 0.09	55	0.00	0
## 1214	0.08	0.12	0.18 0.09	56	0.00	0
## 1215	0.07	0.12	0.17 0.09	59	0.00	0
## 1216	0.07	0.11	0.17 0.09	55	0.00	0
## 1217	0.06	0.11	0.16 0.09	55	0.00	0
## 1218	0.05	0.10	0.15 0.09	61	0.00	0
## 1219	0.05	0.10	0.16 0.09	64	0.00	0
## 1220	0.05	0.10	0.15 0.09	64	0.00	0
## 1221	0.05	0.09	0.15 0.09	64	0.00	0
## 1222	0.04	0.07	0.15 0.09	61	0.00	0
## 1223	0.02	0.05	0.15 0.09	72	0.00	0
## 1224	0.04	0.07	0.15 0.08	74	0.00	0
## 1225	0.05	0.09	0.15 0.08	70	0.00	0
## 1226	0.02	0.05	0.15 0.08	74	0.00	0
## 1227	0.02	0.04	0.15 0.08	74	0.00	0
## 1228	0.03	0.06	0.15 0.08	71	0.00	0
## 1229	0.04	0.07	0.15 0.07	67	0.00	0
## 1230	0.05	0.09	0.15 0.07	62	0.00	0
## 1231	0.06	0.09	0.15 0.08	64	0.00	0
## 1232	0.06	0.10	0.15 0.08	67	0.00	0
## 1233	0.03	0.06	0.15 0.08	67	0.00	0
## 1234	0.01	0.04	0.15 0.08	69	0.00	0
## 1235	0.01	0.05	0.15 0.08	72	0.00	0
## 1236	0.03	0.07	0.15 0.07	72	0.00	0
## 1237	0.05	0.09	0.15 0.08	73	0.00	0

## 1238	0.04	0.08	0.15 0.08	68	0.00	0
## 1239	0.03	0.07	0.15 0.08	67	0.00	0
## 1240	0.05	0.08	0.15 0.08	63	0.00	0
## 1241	0.05	0.08	0.15 0.08	65	0.00	0
## 1242	0.02	0.05	0.15 0.08	66	0.00	0
## 1243	0.01	0.04	0.15 0.07	73	0.00	0
## 1244	0.02	0.04	0.15 0.07	71	0.00	0
## 1245	0.01	0.03	0.15 0.07	70	0.00	0
## 1246	0.01	0.04	0.15 0.07	70	0.00	0
## 1247	0.02	0.05	0.15 0.07	70	0.00	0
## 1248	0.01	0.01	0.15 0.07	77	0.00	0
## 1249	0.01	0.04	0.15 0.07	71	0.00	0
## 1250	0.02	0.05	0.15 0.07	68	0.00	0
## 1251	0.03	0.06	0.15 0.07	68	0.00	0
## 1252	0.01	0.04	0.15 0.07	68	0.00	0
## 1253	0.01	0.03	0.15 0.07	69	0.00	0
## 1254	0.01	0.04	0.15 0.07	69	0.00	0
## 1255	0.01	0.03	0.15 0.07	66	0.00	0
## 1256	0.01	0.04	0.15 0.07	69	0.00	0
## 1257	0.01	0.03	0.15 0.07	66	0.00	0
## 1258	0.00	0.01	0.15 0.07	67	0.00	0
## 1259	0.01	0.02	0.15 0.07	63	0.00	0
## 1260	0.01	0.01	0.15 0.07	70	0.00	0
## 1261	0.01	0.01	0.15 0.07	69	0.00	0
## 1262	0.01	0.01	0.15 0.07	72	0.00	0
## 1263	0.00	0.01	0.15 0.07	75	0.00	0
## 1264	0.00	0.01	0.15 0.07	72	0.00	0
## 1265	0.00	0.01	0.15 0.07	68	0.00	0
## 1266	0.01	0.01	0.15 0.07	71	0.00	0
## 1267	0.01	0.03	0.15 0.07	70	0.00	0
## 1268	0.01	0.03	0.15 0.07	79	0.00	0
## 1269	0.01	0.03	0.15 0.07	75	0.00	0
## 1270	0.01	0.02	0.15 0.07	74	0.00	0
## 1271	0.00	0.01	0.15 0.07	76	0.00	0
## 1272	0.01	0.03	0.15 0.06	56	0.00	0
## 1273	0.06	0.08	0.10 0.07	72	0.00	0
## 1274	0.06	0.07	0.12 0.01	338	0.00	0
## 1275	0.06	0.07	0.13 0.01	349	0.00	0
## 1276	0.06	0.07	0.11 0.01	341	0.00	0
## 1277	0.06	0.07	0.12 0.01	350	0.00	0
## 1278	0.06	0.07	0.10 0.01	346	0.00	0
## 1279	0.06	0.07	0.11 0.01	350	0.00	0
## 1280	0.06	0.07	0.10 0.01	354	0.00	0
## 1281	0.06	0.07	0.10 0.01	354	0.00	0
## 1282	0.06	0.07	0.10 0.01	359	0.00	0
## 1283	0.06	0.07	0.10 0.01	358	0.00	0
## 1284	0.06	0.07	0.10 0.01	351	0.00	0
## 1285	0.06	0.07	0.10 0.01	351	0.00	0
## 1286	0.06	0.07	0.10 0.01	346	0.00	0
## 1287	0.06	0.07	0.11 0.01	356	0.00	0
## 1288	0.06	0.07	0.11 0.01	352	0.00	0
## 1289	0.06	0.06	0.10 0.01	350	0.00	0
## 1290	0.05	0.06	0.10 0.01	354	0.00	0
## 1291	0.05	0.06	0.10 0.01	354	0.00	0



## 1292	0.05	0.06	0.10 0.01	349	0.00	0
## 1293	0.02	0.05	0.11 0.01	351	0.00	0
## 1294	0.05	0.06	0.13 0.01	349	0.00	0
## 1295	0.05	0.06	0.11 0.01	344	0.00	0
## 1296	0.05	0.06	0.13 0.01	343	0.00	0
## 1297	0.05	0.05	0.10 0.01	349	0.00	0
## 1298	0.05	0.05	0.10 0.01	348	0.00	0
## 1299	0.04	0.05	0.10 0.01	350	0.00	0
## 1300	0.04	0.05	0.10 0.01	359	0.00	0
## 1301	0.04	0.05	0.10 0.01	352	0.00	0
## 1302	0.04	0.05	0.10 0.01	349	0.00	0
## 1303	0.04	0.05	0.10 0.01	348	0.00	0
## 1304	0.04	0.05	0.10 0.01	346	0.00	0
## 1305	0.04	0.06	0.10 0.01	351	0.00	0
## 1306	0.04	0.05	0.10 0.01	351	0.00	0
## 1307	0.04	0.05	0.11 0.01	358	0.00	0
## 1308	0.04	0.05	0.11 0.01	350	0.00	0
## 1309	0.04	0.05	0.12 0.01	350	0.00	0
## 1310	0.04	0.05	0.11 0.01	353	0.00	0
## 1311	0.04	0.05	0.12 0.01	349	0.00	0
## 1312	0.04	0.06	0.12 0.01	356	0.00	0
## 1313	0.02	0.05	0.12 0.01	355	0.00	0
## 1314	0.04	0.06	0.14 0.01	366	0.00	0
## 1315	0.04	0.06	0.12 0.01	371	0.00	0
## 1316	0.04	0.05	0.10 0.01	360	0.00	0
## 1317	0.04	0.06	0.10 0.01	356	0.00	0
## 1318	0.04	0.06	0.10 0.01	360	0.00	0
## 1319	0.04	0.06	0.10 0.01	356	0.00	0
## 1320	0.04	0.05	0.10 0.01	355	0.00	0
## 1321	0.04	0.06	0.10 0.01	358	0.00	0
## 1322	0.04	0.06	0.10 0.01	350	0.00	0
## 1323	0.04	0.05	0.10 0.01	346	0.00	0
## 1324	0.04	0.06	0.10 0.01	355	0.00	0
## 1325	0.04	0.06	0.10 0.01	352	0.00	0
## 1326	0.08	0.09	0.14 0.05	347	0.00	0
## 1327	0.08	0.10	0.12 0.05	342	0.00	0
## 1328	0.08	0.09	0.12 0.05	335	0.00	0
## 1329	0.08	0.10	0.12 0.05	333	0.00	0
## 1330	0.08	0.10	0.12 0.05	325	0.00	0
## 1331	0.08	0.10	0.12 0.05	326	0.00	0
## 1332	0.08	0.09	0.12 0.05	319	0.00	0
## 1333	0.08	0.09	0.12 0.05	317	0.00	0
## 1334	0.08	0.09	0.12 0.05	316	0.00	0
## 1335	0.05	0.09	0.14 0.05	294	0.00	0
## 1336	0.08	0.09	0.12 0.05	315	0.00	0
## 1337	0.08	0.10	0.14 0.05	315	0.00	0
## 1338	0.08	0.09	0.12 0.05	324	0.00	0
## 1339	0.08	0.09	0.12 0.05	325	0.00	0
## 1340	0.08	0.09	0.12 0.05	331	0.00	0
## 1341	0.08	0.09	0.12 0.05	330	0.00	0
## 1342	0.08	0.09	0.14 0.05	331	0.00	0
## 1343	0.08	0.09	0.12 0.05	331	0.00	0
## 1344	0.08	0.09	0.12 0.05	329	0.00	0
## 1345	0.08	0.09	0.13 0.05	348	0.00	0

## 1346	0.08	0.09	0.13 0.05	339	0.00	0
## 1347	0.08	0.09	0.12 0.05	337	0.00	0
## 1348	0.07	0.09	0.12 0.05	348	0.00	0
## 1349	0.07	0.09	0.12 0.05	352	0.00	0
## 1350	0.07	0.09	0.12 0.05	339	0.00	0
## 1351	0.07	0.09	0.12 0.05	345	0.00	0
## 1352	0.07	0.09	0.12 0.05	342	0.00	0
## 1353	0.07	0.09	0.12 0.05	343	0.00	0
## 1354	0.07	0.09	0.12 0.05	345	0.00	0
## 1355	0.07	0.09	0.12 0.05	341	0.00	0
## 1356	0.05	0.08	0.12 0.05	343	0.00	0
## 1357	0.07	0.09	0.12 0.05	360	0.00	0
## 1358	0.07	0.09	0.12 0.05	352	0.00	0
## 1359	0.07	0.09	0.12 0.05	353	0.00	0
## 1360	0.07	0.09	0.12 0.05	353	0.00	0
## 1361	0.07	0.09	0.12 0.05	347	0.00	0
## 1362	0.07	0.09	0.12 0.05	343	0.00	0
## 1363	0.07	0.09	0.12 0.05	345	0.00	0
## 1364	0.07	0.09	0.12 0.05	350	0.00	0
## 1365	0.07	0.09	0.12 0.05	363	0.00	0
## 1366	0.07	0.09	0.12 0.05	364	0.00	0
## 1367	0.07	0.09	0.12 0.05	362	0.00	0
## 1368	0.07	0.09	0.12 0.05	365	0.00	0
## 1369	0.07	0.09	0.12 0.05	357	0.00	0
## 1370	0.07	0.09	0.12 0.05	360	0.00	0
## 1371	0.07	0.09	0.12 0.05	354	0.00	0
## 1372	0.07	0.08	0.12 0.05	356	0.00	0
## 1373	0.07	0.08	0.12 0.05	363	0.00	0
## 1374	0.07	0.08	0.12 0.05	358	0.00	0
## 1375	0.07	0.08	0.12 0.05	350	0.00	0
## 1376	0.06	0.08	0.12 0.05	354	0.00	0
## 1377	0.06	0.08	0.12 0.05	349	0.00	0
## 1378	0.04	0.07	0.12 0.05	360	0.00	0
## 1379	0.06	0.08	0.12 0.05	360	0.00	0
## 1380	0.06	0.08	0.12 0.05	360	0.00	0
## 1381	0.06	0.08	0.12 0.05	352	0.00	0
## 1382	0.06	0.08	0.12 0.05	361	0.00	0
## 1383	0.06	0.08	0.12 0.05	352	0.00	0
## 1384	0.06	0.08	0.12 0.05	360	0.00	0
## 1385	0.06	0.08	0.12 0.05	359	0.00	0
## 1386	0.06	0.08	0.12 0.05	354	0.00	0
## 1387	0.06	0.08	0.12 0.05	357	0.00	0
## 1388	0.06	0.08	0.12 0.05	371	0.00	0
## 1389	0.06	0.08	0.12 0.05	367	0.00	0
## 1390	0.06	0.08	0.12 0.05	354	0.00	0
## 1391	0.06	0.08	0.12 0.05	356	0.00	0
## 1392	0.06	0.08	0.12 0.05	353	0.00	0
## 1393	0.06	0.08	0.12 0.05	349	0.00	0
## 1394	0.06	0.08	0.12 0.05	350	0.00	0
## 1395	0.06	0.08	0.12 0.05	353	0.00	0
## 1396	0.06	0.08	0.12 0.05	351	0.00	0
## 1397	0.06	0.08	0.11 0.05	348	0.00	0
## 1398	0.06	0.08	0.11 0.05	340	0.00	0
## 1399	0.05	0.07	0.14 0.05	322	0.00	0

## 1400	0.07	0.08	0.11 0.05	342	0.00	0
## 1401	0.07	0.08	0.11 0.05	343	0.00	0
## 1402	0.07	0.08	0.11 0.05	344	0.00	0
## 1403	0.07	0.08	0.11 0.05	348	0.00	0
## 1404	0.06	0.08	0.11 0.05	352	0.00	0
## 1405	0.06	0.08	0.11 0.05	349	0.00	0
## 1406	0.07	0.08	0.11 0.05	347	0.00	0
## 1407	0.06	0.08	0.11 0.05	352	0.00	0
## 1408	0.06	0.08	0.11 0.05	355	0.00	0
## 1409	0.06	0.08	0.11 0.05	351	0.00	0
## 1410	0.06	0.08	0.11 0.05	352	0.00	0
## 1411	0.06	0.08	0.12 0.05	339	0.00	0
## 1412	0.06	0.08	0.14 0.05	334	0.00	0
## 1413	0.06	0.08	0.14 0.05	332	0.00	0
## 1414	0.06	0.08	0.12 0.05	331	0.00	0
## 1415	0.06	0.08	0.11 0.05	329	0.00	0
## 1416	0.06	0.08	0.11 0.05	326	0.00	0
## 1417	0.06	0.08	0.14 0.05	325	0.00	0
## 1418	0.06	0.08	0.14 0.05	317	0.00	0
## 1419	0.05	0.07	0.14 0.05	317	0.00	0
## 1420	0.06	0.08	0.14 0.05	329	0.00	0
## 1421	0.06	0.08	0.11 0.05	338	0.00	0
## 1422	0.06	0.08	0.11 0.05	329	0.00	0
## 1423	0.06	0.08	0.11 0.05	338	0.00	0
## 1424	0.06	0.08	0.11 0.05	331	0.00	0
## 1425	0.06	0.08	0.11 0.05	332	0.00	0
## 1426	0.06	0.08	0.11 0.05	330	0.00	0
## 1427	0.06	0.08	0.14 0.05	328	0.00	0
## 1428	0.06	0.08	0.11 0.05	324	0.00	0
## 1429	0.06	0.08	0.11 0.05	333	0.00	0
## 1430	0.06	0.08	0.11 0.05	327	0.00	0
## 1431	0.06	0.08	0.11 0.05	329	0.00	0
## 1432	0.06	0.08	0.11 0.05	337	0.00	0
## 1433	0.06	0.08	0.11 0.05	331	0.00	0
## 1434	0.06	0.08	0.12 0.05	336	0.00	0
## 1435	0.06	0.08	0.14 0.05	328	0.00	0
## 1436	0.06	0.08	0.14 0.05	325	0.00	0
## 1437	0.06	0.08	0.14 0.05	327	0.00	0
## 1438	0.06	0.08	0.14 0.05	328	0.00	0
## 1439	0.05	0.08	0.14 0.05	334	0.00	0
## 1440	0.07	0.08	0.14 0.05	341	0.00	0
## 1441	0.06	0.08	0.14 0.05	338	0.00	0
## 1442	0.06	0.08	0.14 0.05	338	0.00	0
## 1443	0.06	0.08	0.14 0.05	334	0.00	0
## 1444	0.06	0.08	0.14 0.05	338	0.00	0
## 1445	0.06	0.08	0.14 0.05	339	0.00	0
## 1446	0.06	0.08	0.14 0.05	339	0.00	0
## 1447	0.06	0.08	0.14 0.05	334	0.00	0
## 1448	0.06	0.08	0.14 0.05	341	0.00	0
## 1449	0.06	0.08	0.12 0.05	336	0.00	0
## 1450	0.06	0.08	0.14 0.05	337	0.00	0
## 1451	0.06	0.08	0.14 0.05	329	0.00	0
## 1452	0.06	0.08	0.14 0.05	326	0.00	0
## 1453	0.06	0.08	0.14 0.05	324	0.00	0

## 1454	0.06	0.08	0.14 0.05	329	0.00	0
## 1455	0.06	0.08	0.14 0.05	331	0.00	0
## 1456	0.07	0.09	0.20 0.05	323	0.00	0
## 1457	0.05	0.05	0.15 0.05	888	0.00	0
## 1458	0.05	0.05	0.15 0.05	844	0.00	0
## 1459	0.05	0.05	0.15 0.05	869	0.00	0
## 1460	0.05	0.05	0.15 0.05	836	0.00	0
## 1461	0.05	0.05	0.15 0.05	923	0.00	0
## 1462	0.05	0.05	0.15 0.05	972	0.00	0
## 1463	0.05	0.05	0.15 0.05	976	0.00	0
## 1464	0.05	0.05	0.15 0.05	946	0.00	0
## 1465	0.05	0.05	0.15 0.05	942	0.00	0
## 1466	0.05	0.05	0.15 0.05	929	0.00	0
## 1467	0.05	0.05	0.15 0.05	919	0.00	0
## 1468	0.05	0.05	0.15 0.05	935	0.00	0
## 1469	0.05	0.05	0.15 0.05	891	0.00	0
## 1470	0.05	0.05	0.15 0.05	892	0.00	0
## 1471	0.05	0.05	0.15 0.05	874	0.00	0
## 1472	0.05	0.05	0.15 0.05	954	0.00	0
## 1473	0.05	0.05	0.15 0.05	917	0.00	0
## 1474	0.05	0.05	0.15 0.04	927	0.00	0
## 1475	0.05	0.05	0.15 0.05	875	0.00	0
## 1476	0.05	0.05	0.15 0.04	886	0.00	0
## 1477	0.05	0.05	0.15 0.05	943	0.00	0
## 1478	0.05	0.05	0.15 0.04	926	0.00	0
## 1479	0.05	0.05	0.15 0.04	913	0.00	0
## 1480	0.05	0.05	0.15 0.05	908	0.00	0
## 1481	0.05	0.05	0.15 0.05	1019	0.00	0
## 1482	0.05	0.05	0.15 0.05	985	0.00	0
## 1483	0.05	0.05	0.15 0.05	927	0.00	0
## 1484	0.05	0.05	0.15 0.05	935	0.00	0
## 1485	0.05	0.05	0.15 0.05	891	0.00	0
## 1486	0.05	0.05	0.15 0.05	905	0.00	0
## 1487	0.05	0.05	0.15 0.05	896	0.00	0
## 1488	0.05	0.05	0.15 0.04	911	0.00	0
## 1489	0.05	0.05	0.15 0.05	914	0.00	0
## 1490	0.05	0.05	0.15 0.05	903	0.00	0
## 1491	0.05	0.05	0.15 0.05	895	0.00	0
## 1492	0.05	0.05	0.15 0.05	972	0.00	0
## 1493	0.05	0.05	0.15 0.05	960	0.00	0
## 1494	0.05	0.05	0.15 0.05	911	0.00	0
## 1495	0.05	0.05	0.15 0.05	931	0.00	0
## 1496	0.05	0.05	0.15 0.05	930	0.00	0
## 1497	0.05	0.05	0.15 0.05	902	0.00	0
## 1498	0.05	0.05	0.15 0.05	924	0.00	0
## 1499	0.05	0.05	0.15 0.05	962	0.00	0
## 1500	0.05	0.05	0.15 0.05	1052	0.00	0
## 1501	0.05	0.05	0.15 0.05	1062	0.00	0
## 1502	0.05	0.05	0.15 0.05	1023	0.00	0
## 1503	0.05	0.05	0.15 0.05	1001	0.00	0
## 1504	0.05	0.05	0.15 0.05	961	0.00	0
## 1505	0.05	0.05	0.15 0.05	990	0.00	0
## 1506	0.05	0.05	0.15 0.05	948	0.00	0
## 1507	0.05	0.05	0.15 0.05	952	0.00	0

## 1508	0.05	0.05	0.15 0.05	977	0.00	0
## 1509	0.05	0.05	0.15 0.05	980	0.00	0
## 1510	0.05	0.05	0.15 0.05	980	0.00	0
## 1511	0.05	0.05	0.15 0.05	1014	0.00	0
## 1512	0.05	0.05	0.15 0.05	1016	0.00	0
## 1513	0.30	0.30	0.45 0.30	1003	0.00	0
## 1514	0.30	0.30	0.45 0.30	968	0.00	0
## 1515	0.30	0.30	0.45 0.29	989	0.00	0
## 1516	0.30	0.30	0.45 0.28	931	0.00	0
## 1517	0.30	0.30	0.45 0.27	908	0.00	0
## 1518	0.30	0.30	0.45 0.27	900	0.00	0
## 1519	0.30	0.30	0.45 0.28	901	0.00	0
## 1520	0.30	0.30	0.45 0.28	899	0.00	0
## 1521	0.30	0.30	0.45 0.28	874	0.00	0
## 1522	0.28	0.30	0.45 0.27	900	0.00	0
## 1523	0.29	0.30	0.45 0.29	979	0.00	0
## 1524	0.29	0.30	0.45 0.30	974	0.00	0
## 1525	0.29	0.30	0.45 0.30	940	0.00	0
## 1526	0.29	0.30	0.45 0.30	929	0.00	0
## 1527	0.29	0.30	0.45 0.30	905	0.00	0
## 1528	0.29	0.30	0.45 0.30	906	0.00	0
## 1529	0.29	0.30	0.45 0.30	905	0.00	0
## 1530	0.29	0.30	0.45 0.30	886	0.00	0
## 1531	0.28	0.30	0.45 0.29	883	0.00	0
## 1532	0.28	0.30	0.45 0.29	874	0.00	0
## 1533	0.28	0.30	0.45 0.29	886	0.00	0
## 1534	0.32	0.34	0.34 0.33	99	0.00	0
## 1535	0.32	0.34	0.36 0.32	263	0.00	0
## 1536	0.32	0.34	0.43 0.32	263	0.00	0
## 1537	0.33	0.34	0.45 0.32	258	0.00	0
## 1538	0.33	0.34	0.45 0.32	264	0.00	0
## 1539	0.33	0.34	0.41 0.32	260	0.00	0
## 1540	0.33	0.34	0.45 0.32	273	0.00	0
## 1541	0.32	0.34	0.40 0.32	261	0.00	0
## 1542	0.33	0.34	0.45 0.32	262	0.00	0
## 1543	0.33	0.34	0.45 0.32	259	0.00	0
## 1544	0.32	0.34	0.45 0.32	244	0.00	0
## 1545	0.33	0.34	0.45 0.32	253	0.00	0
## 1546	0.33	0.34	0.45 0.32	260	0.00	0
## 1547	0.32	0.34	0.45 0.32	273	0.00	0
## 1548	0.83	0.84	0.95 0.82	284	0.00	0
## 1549	0.82	0.84	0.95 0.82	267	0.00	0
## 1550	0.83	0.84	0.95 0.82	270	0.00	0
## 1551	0.82	0.84	0.95 0.82	253	0.00	0
## 1552	0.82	0.84	0.95 0.82	256	0.00	0
## 1553	0.82	0.84	0.91 0.82	275	0.00	0
## 1554	0.82	0.84	0.91 0.82	266	0.00	0
## 1555	0.82	0.84	0.91 0.82	271	0.00	0
## 1556	0.82	0.84	0.93 0.82	267	0.00	0
## 1557	0.82	0.84	0.95 0.82	252	0.00	0
## 1558	0.82	0.84	0.95 0.82	257	0.00	0
## 1559	0.82	0.84	0.90 0.82	261	0.00	0
## 1560	0.82	0.84	0.95 0.82	254	0.00	0
## 1561	0.82	0.84	0.95 0.82	253	0.00	0

## 1562	0.82	0.84	0.95 0.82	260	0.00	0
## 1563	0.82	0.84	0.95 0.82	252	0.00	0
## 1564	0.82	0.84	0.95 0.82	254	0.00	0
## 1565	0.82	0.84	0.91 0.82	235	0.00	0
## 1566	0.82	0.84	0.90 0.82	255	0.00	0
## 1567	0.82	0.84	0.88 0.82	256	0.00	0
## 1568	0.82	0.83	0.88 0.82	252	0.00	0
## 1569	0.82	0.83	0.90 0.82	266	0.00	0
## 1570	0.82	0.84	0.88 0.82	252	0.00	0
## 1571	0.82	0.84	0.88 0.82	247	0.00	0
## 1572	0.82	0.84	0.88 0.82	247	0.00	0
## 1573	0.82	0.84	0.88 0.82	243	0.00	0
## 1574	0.82	0.84	0.91 0.82	238	0.00	0
## 1575	0.82	0.84	0.95 0.82	248	0.00	0
## 1576	0.82	0.84	0.95 0.82	250	0.00	0
## 1577	1.57	1.59	1.70 1.57	254	0.00	0
## 1578	1.57	1.59	1.70 1.57	243	0.00	0
## 1579	1.57	1.59	1.72 1.57	242	0.00	0
## 1580	1.57	1.59	1.72 1.57	261	0.00	0
## 1581	1.57	1.59	1.70 1.57	257	0.00	0
## 1582	1.57	1.58	1.70 1.57	256	0.00	0
## 1583	1.57	1.58	1.70 1.57	258	0.00	0
## 1584	1.57	1.58	1.70 1.57	247	0.00	0
## 1585	1.57	1.58	1.70 1.57	238	0.00	0
## 1586	1.58	1.59	1.72 1.57	157	0.00	0
## 1587	1.57	1.58	1.70 1.57	249	0.00	0
## 1588	1.57	1.58	1.70 1.57	262	0.00	0
## 1589	1.57	1.58	1.70 1.57	270	0.00	0
## 1590	1.57	1.58	1.70 1.57	271	0.00	0
## 1591	1.57	1.58	1.70 1.57	278	0.00	0
## 1592	1.57	1.58	1.70 1.57	269	0.00	0
## 1593	1.57	1.58	1.70 1.57	275	0.00	0
## 1594	1.57	1.58	1.70 1.57	274	0.00	0
## 1595	1.57	1.58	1.70 1.57	271	0.00	0
## 1596	1.57	1.58	1.70 1.57	276	0.00	0
## 1597	1.57	1.58	1.71 1.57	284	0.00	0
## 1598	1.57	1.59	1.73 1.57	274	0.00	0
## 1599	1.57	1.58	1.73 1.57	274	0.00	0
## 1600	1.57	1.58	1.73 1.57	287	0.00	0
## 1601	1.57	1.58	1.75 1.57	284	0.00	0
## 1602	1.57	1.59	1.73 1.57	291	0.00	0
## 1603	1.57	1.58	1.73 1.57	293	0.00	0
## 1604	1.57	1.58	1.75 1.57	287	0.00	0
## 1605	2.32	2.33	2.48 2.32	287	0.00	0
## 1606	2.31	2.34	2.48 2.31	240	0.00	0
## 1607	2.32	2.33	2.45 2.32	270	0.00	0
## 1608	2.32	2.33	2.45 2.32	278	0.00	0
## 1609	2.32	2.33	2.45 2.32	274	0.00	0
## 1610	2.32	2.33	2.45 2.32	280	0.00	0
## 1611	2.32	2.33	2.45 2.32	282	0.00	0
## 1612	2.32	2.33	2.45 2.32	279	0.00	0
## 1613	2.32	2.33	2.45 2.32	283	0.00	0
## 1614	2.32	2.33	2.45 2.32	281	0.00	0
## 1615	2.32	2.33	2.45 2.32	285	0.00	0

## 1616	2.32	2.33	2.45 2.32	286	0.00	0
## 1617	2.32	2.33	2.45 2.32	294	0.00	0
## 1618	2.32	2.33	2.45 2.32	289	0.00	0
## 1619	2.32	2.33	2.45 2.32	286	0.00	0
## 1620	2.32	2.33	2.45 2.32	285	0.00	0
## 1621	2.32	2.34	2.45 2.32	289	0.00	0
## 1622	2.32	2.34	2.45 2.32	284	0.00	0
## 1623	2.32	2.34	2.45 2.32	281	0.00	0
## 1624	2.32	2.33	2.45 2.32	278	0.00	0
## 1625	2.32	2.33	2.45 2.32	280	0.00	0
## 1626	2.32	2.33	2.45 2.32	281	0.00	0
## 1627	2.32	2.34	2.45 2.32	265	0.00	0
## 1628	2.32	2.34	2.45 2.32	266	0.00	0
## 1629	2.32	2.34	2.45 2.31	253	0.00	0
## 1630	2.32	2.33	2.45 2.32	295	0.00	0
## 1631	2.32	2.33	2.45 2.32	288	0.00	0
## 1632	2.32	2.33	2.45 2.32	283	0.00	0
## 1633	2.32	2.33	2.45 2.32	313	0.00	0
## 1634	2.32	2.33	2.45 2.32	298	0.00	0
## 1635	2.32	2.33	2.45 2.32	299	0.00	0
## 1636	2.32	2.33	2.45 2.32	293	0.00	0
## 1637	2.32	2.33	2.45 2.32	302	0.00	0
## 1638	2.32	2.33	2.45 2.32	292	0.00	0
## 1639	2.32	2.33	2.45 2.32	294	0.00	0
## 1640	2.32	2.34	2.45 2.32	294	0.00	0
## 1641	2.32	2.34	2.45 2.32	295	0.00	0
## 1642	2.32	2.34	2.48 2.32	301	0.00	0
## 1643	2.32	2.33	2.50 2.32	300	0.00	0
## 1644	3.07	3.08	3.25 3.07	308	0.00	0
## 1645	3.07	3.08	3.25 3.07	295	0.00	0
## 1646	3.07	3.08	3.25 3.07	288	0.00	0
## 1647	3.07	3.08	3.25 3.07	279	0.00	0
## 1648	3.07	3.08	3.25 3.07	272	0.00	0
## 1649	3.07	3.08	3.25 3.07	260	0.00	0
## 1650	3.07	3.08	3.23 3.07	197	0.00	0
## 1651	3.07	3.08	3.23 3.07	282	0.00	0
## 1652	3.07	3.08	3.25 3.07	281	0.00	0
## 1653	3.07	3.08	3.23 3.07	281	0.00	0
## 1654	3.07	3.08	3.25 3.07	282	0.00	0
## 1655	3.07	3.08	3.23 3.07	282	0.00	0
## 1656	3.07	3.08	3.23 3.07	282	0.00	0
## 1657	3.07	3.08	3.23 3.07	287	0.00	0
## 1658	3.07	3.08	3.24 3.07	285	0.00	0
## 1659	3.07	3.08	3.23 3.07	287	0.00	0
## 1660	3.07	3.08	3.23 3.07	275	0.00	0
## 1661	3.07	3.08	3.23 3.07	276	0.00	0
## 1662	3.07	3.08	3.25 3.07	272	0.00	0
## 1663	3.07	3.09	3.25 3.07	267	0.00	0
## 1664	3.07	3.09	3.25 3.07	265	0.00	0
## 1665	3.07	3.09	3.25 3.07	276	0.00	0
## 1666	3.07	3.09	3.29 3.07	283	0.00	0
## 1667	3.07	3.09	3.30 3.07	282	0.00	0
## 1668	3.07	3.09	3.30 3.07	286	0.00	0
## 1669	3.07	3.09	3.30 3.07	300	0.00	0

## 1670	3.07	3.09	3.30	3.06	249	0.00	0
## 1671	3.07	3.08	3.35	3.07	289	0.00	0
## 1672	3.07	3.09	3.35	3.07	292	0.00	0
## 1673	3.82	3.84	4.05	3.82	284	0.00	0
## 1674	3.82	3.83	4.00	3.82	286	0.00	0
## 1675	3.82	3.84	4.00	3.82	291	0.00	0
## 1676	3.82	3.84	4.05	3.82	288	0.00	0
## 1677	3.82	3.84	4.00	3.82	293	0.00	0
## 1678	3.82	3.84	4.00	3.82	283	0.00	0
## 1679	3.82	3.84	4.00	3.82	284	0.00	0
## 1680	3.82	3.84	4.00	3.82	275	0.00	0
## 1681	3.82	3.84	4.00	3.82	281	0.00	0
## 1682	3.82	3.84	4.00	3.82	279	0.00	0
## 1683	3.82	3.84	4.05	3.82	283	0.00	0
## 1684	3.82	3.84	4.05	3.82	281	0.00	0
## 1685	3.82	3.84	4.05	3.82	280	0.00	0
## 1686	3.82	3.84	4.05	3.82	273	0.00	0
## 1687	3.82	3.83	4.05	3.82	265	0.00	0
## 1688	3.82	3.84	4.05	3.82	271	0.00	0
## 1689	3.82	3.84	4.05	3.82	269	0.00	0
## 1690	3.82	3.84	4.05	3.82	242	0.00	0
## 1691	3.82	3.84	4.05	3.82	269	0.00	0
## 1692	3.82	3.83	4.00	3.82	282	0.00	0
## 1693	3.82	3.84	4.05	3.82	287	0.00	0
## 1694	3.82	3.84	4.05	3.82	306	0.00	0
## 1695	3.82	3.84	4.05	3.82	273	0.00	0
## 1696	3.82	3.84	4.05	3.82	270	0.00	0
## 1697	3.82	3.84	4.05	3.82	271	0.00	0
## 1698	3.82	3.84	4.05	3.82	281	0.00	0
## 1699	3.82	3.84	4.05	4.32	279	0.00	0
## 1700	3.82	3.84	4.05	4.32	267	0.00	0
## 1701	4.32	4.34	4.50	4.32	279	0.00	0
## 1702	4.32	4.34	4.55	4.32	267	0.00	0
## 1703	4.32	4.34	4.55	4.32	259	0.00	0
## 1704	4.32	4.34	4.55	4.32	267	0.00	0
## 1705	4.32	4.34	4.55	4.32	263	0.00	0
## 1706	4.32	4.34	4.60	4.32	270	0.00	0
## 1707	4.32	4.34	4.60	4.32	270	0.00	0
## 1708	4.32	4.34	4.60	4.32	277	0.00	0
## 1709	4.32	4.34	4.60	4.32	255	0.00	0
## 1710	4.31	4.34	4.60	4.32	249	0.00	0
##	Percentile01	Percentile025	Percentile075	Percentile099	TGCR	Volume	TGCR
## 1	0.00	0.00	0.00	0.00	0.28		343
## 2	0.00	0.00	0.00	0.00	0.28		340
## 3	0.00	0.00	0.00	0.00	0.30		340
## 4	0.00	0.00	0.00	0.00	0.30		339
## 5	0.00	0.00	0.00	0.00	0.30		338
## 6	40.00	680.00	0.00	0.00	0.31		347
## 7	0.00	0.00	0.00	0.00	0.30		348
## 8	0.00	0.00	0.00	0.00	0.30		332
## 9	0.00	0.00	0.00	0.00	0.28		333
## 10	0.00	0.00	0.00	0.00	0.27		328
## 11	0.00	0.00	0.00	0.00	0.26		323
## 12	0.29	649.00	0.00	0.00	0.27		317



## 13	0.00	0.00	0.00	0.00 0.31	314
## 14	0.00	0.00	0.00	0.00 0.31	298
## 15	0.00	0.00	0.00	0.00 0.31	298
## 16	0.00	0.00	0.00	0.00 0.32	284
## 17	0.00	0.00	0.00	0.00 0.29	282
## 18	0.00	0.00	0.00	0.00 0.31	271
## 19	0.00	0.00	0.00	0.00 0.31	252
## 20	0.00	0.00	0.00	0.00 0.30	304
## 21	0.00	0.00	0.00	0.00 0.29	307
## 22	0.00	0.00	0.00	0.00 0.29	319
## 23	0.00	0.00	0.00	0.00 0.30	324
## 24	0.00	0.00	0.00	0.00 0.30	327
## 25	0.00	0.00	0.00	0.00 0.30	325
## 26	0.00	0.00	0.00	0.00 0.30	324
## 27	0.00	0.00	0.00	0.00 0.30	324
## 28	0.00	0.00	0.00	0.00 0.30	331
## 29	0.00	0.00	0.00	0.00 0.30	324
## 30	0.00	0.00	0.00	0.00 0.30	325
## 31	0.00	0.00	0.00	0.00 0.28	335
## 32	0.00	0.00	0.00	0.00 0.27	345
## 33	0.29	0.00	0.00	0.00 0.26	326
## 34	0.00	0.00	0.00	0.00 0.30	334
## 35	0.00	0.00	0.00	0.00 0.28	332
## 36	0.00	0.00	0.00	0.00 0.27	335
## 37	0.00	0.00	0.00	0.00 0.27	333
## 38	0.00	0.00	0.00	0.00 0.26	339
## 39	0.00	0.00	0.00	0.00 0.29	328
## 40	0.00	0.00	0.00	0.00 0.27	323
## 41	0.00	0.00	0.00	0.00 0.28	330
## 42	0.00	0.00	0.00	0.00 0.28	348
## 43	0.00	0.00	0.00	0.00 0.29	331
## 44	0.00	0.00	0.00	0.00 0.30	345
## 45	0.00	0.00	0.00	0.00 0.29	353
## 46	0.00	0.00	0.00	0.00 0.29	346
## 47	0.00	0.00	0.00	0.00 0.29	349
## 48	0.00	0.00	0.00	0.00 0.29	342
## 49	0.00	0.00	0.00	0.00 0.29	347
## 50	0.00	0.00	0.00	0.00 0.30	345
## 51	0.00	0.00	0.00	0.00 0.29	347
## 52	0.00	0.00	0.00	0.00 0.28	345
## 53	0.00	0.00	0.00	0.00 0.27	330
## 54	0.00	0.00	0.00	0.00 0.26	334
## 55	0.00	0.00	0.00	0.00 0.26	318
## 56	0.00	0.00	0.00	0.00 0.29	336
## 57	0.00	0.00	0.00	0.00 0.27	327
## 58	0.00	0.00	0.00	0.00 0.27	335
## 59	0.00	0.00	0.00	0.00 0.26	330
## 60	0.00	0.00	0.00	0.00 0.29	343
## 61	0.00	0.00	0.00	0.00 0.28	325
## 62	0.00	0.00	0.00	0.00 0.28	336
## 63	0.00	0.00	0.00	0.00 0.28	332
## 64	0.00	0.00	0.00	0.00 0.28	334
## 65	0.00	0.00	0.00	0.00 0.29	341
## 66	0.00	0.00	0.00	0.00 0.30	330

## 67	0.00	0.00	0.00	0.00 0.30	334
## 68	0.00	0.00	0.00	0.00 0.33	337
## 69	0.00	0.00	0.00	0.00 0.33	344
## 70	0.00	0.00	0.00	0.00 0.32	345
## 71	0.00	0.00	0.00	0.00 0.34	340
## 72	0.00	0.00	0.00	0.00 0.33	334
## 73	0.00	0.00	0.00	0.00 0.32	350
## 74	0.00	0.00	0.00	0.00 0.32	335
## 75	0.00	0.00	0.00	0.00 0.32	337
## 76	0.00	0.00	0.00	0.00 0.33	328
## 77	0.00	0.00	0.00	0.00 0.35	310
## 78	0.00	0.00	0.00	0.00 0.50	326
## 79	0.00	0.00	0.00	0.00 0.45	334
## 80	0.00	0.00	0.00	0.00 0.43	327
## 81	0.00	0.00	0.00	0.00 0.38	329
## 82	0.00	0.00	0.00	0.00 0.41	305
## 83	0.00	0.00	0.00	0.00 0.37	274
## 84	0.00	0.00	0.00	0.00 0.32	322
## 85	0.00	0.00	0.00	0.00 0.32	317
## 86	0.00	0.00	0.00	0.00 0.32	322
## 87	0.00	0.00	0.00	0.00 0.33	324
## 88	0.00	0.00	0.00	0.00 0.33	331
## 89	0.00	0.00	0.00	0.00 0.31	342
## 90	0.00	0.00	0.00	0.00 0.31	340
## 91	0.00	0.00	0.00	0.00 0.32	334
## 92	0.00	0.00	0.00	0.00 0.32	345
## 93	0.00	0.00	0.00	0.00 0.31	331
## 94	0.00	0.00	0.00	0.00 0.28	337
## 95	0.00	0.00	0.00	0.00 0.28	327
## 96	0.00	0.00	0.00	0.00 1.01	400
## 97	0.00	0.00	0.00	0.00 0.32	340
## 98	0.00	0.00	0.00	0.00 0.31	334
## 99	0.00	0.00	0.00	0.00 0.30	335
## 100	0.00	0.00	0.00	0.00 0.30	328
## 101	0.00	0.00	0.00	0.00 0.30	374
## 102	0.00	0.00	0.00	0.00 0.30	352
## 103	0.00	0.00	0.00	0.00 0.33	346
## 104	0.00	0.00	0.00	0.00 1.01	377
## 105	0.00	0.00	0.00	0.00 1.01	370
## 106	0.00	0.00	0.00	0.00 1.01	384
## 107	0.00	0.00	0.00	0.00 0.33	345
## 108	0.00	0.00	0.00	0.00 0.32	347
## 109	0.00	0.00	0.00	0.00 0.31	338
## 110	0.00	0.00	0.00	0.00 0.31	341
## 111	0.00	0.00	0.00	0.00 0.33	331
## 112	0.00	0.00	0.00	0.00 0.33	342
## 113	0.00	0.00	0.00	0.00 0.33	337
## 114	0.00	0.00	0.00	0.00 0.33	343
## 115	0.00	0.00	0.00	0.00 0.32	343
## 116	0.00	0.00	0.00	0.00 0.33	343
## 117	0.00	0.00	0.00	0.00 0.31	346
## 118	0.00	0.00	0.00	0.00 0.30	346
## 119	0.00	0.00	0.00	0.00 0.28	341
## 120	0.00	0.00	0.00	0.00 0.30	343

## 121	0.00	0.00	0.00	0.00 0.30	346
## 122	0.00	0.00	0.00	0.00 0.31	339
## 123	0.00	0.00	0.00	0.00 0.30	340
## 124	0.00	0.00	0.00	0.00 0.30	324
## 125	0.00	0.00	0.00	0.00 0.32	317
## 126	0.00	0.00	0.00	0.00 0.32	313
## 127	0.00	0.00	0.00	0.00 0.31	342
## 128	0.00	0.00	0.00	0.00 0.31	344
## 129	0.00	0.00	0.00	0.00 0.31	330
## 130	0.00	0.00	0.00	0.00 0.31	345
## 131	0.00	0.00	0.00	0.00 0.33	345
## 132	0.00	0.00	0.00	0.00 0.32	350
## 133	0.00	0.00	0.00	0.00 0.32	337
## 134	0.00	0.00	0.00	0.00 0.32	335
## 135	0.00	0.00	0.00	0.00 0.33	360
## 136	0.00	0.00	0.00	0.00 0.32	346
## 137	0.00	0.00	0.00	0.00 0.28	353
## 138	0.00	0.00	0.00	0.00 0.29	349
## 139	0.00	0.00	0.00	0.00 0.28	365
## 140	0.00	0.00	0.00	0.00 0.29	349
## 141	0.00	0.00	0.00	0.00 0.31	338
## 142	0.00	0.00	0.00	0.00 0.31	316
## 143	0.00	0.00	0.00	0.00 0.37	307
## 144	0.00	0.00	0.00	0.00 0.40	311
## 145	0.00	0.00	0.00	0.00 0.42	290
## 146	0.00	0.00	0.00	0.00 0.47	289
## 147	0.00	0.00	0.00	0.00 0.35	257
## 148	0.55	676.00	0.00	0.00 0.38	296
## 149	0.00	0.00	0.00	0.00 0.37	305
## 150	0.00	0.00	0.00	0.00 0.36	306
## 151	0.00	0.00	0.00	0.00 0.32	325
## 152	0.00	0.00	0.00	0.00 0.31	323
## 153	0.00	0.00	0.00	0.00 0.33	327
## 154	0.00	0.00	0.00	0.00 0.34	337
## 155	0.00	0.00	0.00	0.00 0.31	358
## 156	0.00	0.00	0.00	0.00 0.32	336
## 157	0.35	708.00	0.00	0.00 0.29	357
## 158	0.00	0.00	0.00	0.00 0.28	353
## 159	0.00	0.00	0.00	0.00 0.29	352
## 160	0.00	0.00	0.00	0.00 0.27	343
## 161	0.00	0.00	0.00	0.00 0.30	354
## 162	0.00	0.00	0.00	0.00 0.29	342
## 163	0.00	0.00	0.00	0.00 0.31	341
## 164	0.00	0.00	0.00	0.00 0.32	341
## 165	0.00	0.00	0.00	0.00 0.30	342
## 166	0.00	0.00	0.00	0.00 0.32	345
## 167	0.00	0.00	0.00	0.00 0.29	326
## 168	0.00	0.00	0.00	0.00 0.28	331
## 169	0.00	0.00	0.00	0.00 0.31	334
## 170	0.00	0.00	0.00	0.00 0.31	344
## 171	0.00	0.00	0.00	0.00 0.29	354
## 172	0.00	0.00	0.00	0.00 0.29	340
## 173	0.00	0.00	0.00	0.00 0.30	343
## 174	0.00	0.00	0.00	0.00 0.32	335

## 175	0.00	0.00	0.00	0.00 0.30	341
## 176	0.00	0.00	0.00	0.00 0.30	354
## 177	0.00	0.00	0.00	0.00 0.28	333
## 178	0.00	0.00	0.00	0.00 0.27	333
## 179	0.00	0.00	0.00	0.00 0.26	345
## 180	0.00	0.00	0.00	0.00 0.26	335
## 181	0.00	0.00	0.00	0.00 0.25	345
## 182	0.00	0.00	0.00	0.00 0.26	330
## 183	0.00	0.00	0.00	0.00 0.26	318
## 184	0.00	0.00	0.00	0.00 0.26	315
## 185	0.00	0.00	0.00	0.00 0.26	327
## 186	0.00	0.00	0.00	0.00 0.27	311
## 187	0.00	0.00	0.00	0.00 0.26	298
## 188	0.00	0.00	0.00	0.00 0.26	315
## 189	0.00	0.00	0.00	0.00 0.26	311
## 190	0.00	0.00	0.00	0.00 0.26	311
## 191	0.00	0.00	0.00	0.00 0.26	315
## 192	0.00	0.00	0.00	0.00 0.26	310
## 193	0.00	0.00	0.00	0.00 0.29	310
## 194	0.00	0.00	0.00	0.00 0.29	305
## 195	0.00	0.00	0.00	0.00 0.27	308
## 196	0.00	0.00	0.00	0.00 0.26	320
## 197	0.00	0.00	0.00	0.00 0.50	327
## 198	0.51	666.00	0.00	0.00 0.51	304
## 199	0.00	0.00	0.00	0.00 0.51	314
## 200	0.00	0.00	0.00	0.00 0.50	308
## 201	0.00	0.00	0.00	0.00 0.48	301
## 202	0.00	0.00	0.00	0.00 0.49	262
## 203	0.00	0.00	0.00	0.00 0.50	258
## 204	0.00	0.00	0.00	0.00 0.52	258
## 205	0.00	0.00	0.00	0.00 0.54	253
## 206	0.00	0.00	0.00	0.00 0.51	257
## 207	0.00	0.00	0.00	0.00 0.50	249
## 208	0.00	0.00	0.00	0.00 0.50	231
## 209	0.00	0.00	0.00	0.00 0.54	272
## 210	0.00	0.00	0.00	0.00 0.52	272
## 211	0.00	0.00	0.00	0.00 0.52	302
## 212	0.00	0.00	0.00	0.00 0.51	304
## 213	0.00	0.00	0.00	0.00 0.50	311
## 214	0.00	0.00	0.00	0.00 0.51	315
## 215	0.00	0.00	0.00	0.00 0.52	316
## 216	0.00	0.00	0.00	0.00 0.53	318
## 217	0.00	0.00	0.00	0.00 0.55	343
## 218	0.00	0.00	0.00	0.00 0.55	331
## 219	0.00	0.00	0.00	0.00 0.52	341
## 220	0.00	0.00	0.00	0.00 0.51	341
## 221	0.00	0.00	0.00	0.00 0.50	324
## 222	0.00	0.00	0.00	0.00 0.52	322
## 223	0.00	0.00	0.00	0.00 0.52	326
## 224	0.00	0.00	0.00	0.00 0.52	339
## 225	0.00	0.00	0.00	0.00 0.52	337
## 226	0.00	0.00	0.00	0.00 0.52	342
## 227	0.00	0.00	0.00	0.00 0.54	335
## 228	0.00	0.00	0.00	0.00 0.53	321

## 229	0.00	0.00	0.00	0.00 0.52	338
## 230	0.00	0.00	0.00	0.00 0.52	354
## 231	0.00	0.00	0.00	0.00 0.52	339
## 232	0.00	0.00	0.00	0.00 0.51	338
## 233	0.00	0.00	0.00	0.00 0.51	339
## 234	0.00	0.00	0.00	0.00 0.53	344
## 235	0.00	0.00	0.00	0.00 0.52	343
## 236	0.00	0.00	0.00	0.00 0.51	346
## 237	0.00	0.00	0.00	0.00 0.51	341
## 238	0.00	0.00	0.00	0.00 0.53	344
## 239	0.00	0.00	0.00	0.00 0.51	337
## 240	0.00	0.00	0.00	0.00 0.51	337
## 241	0.00	0.00	0.00	0.00 0.50	326
## 242	0.00	0.00	0.00	0.00 0.50	312
## 243	0.00	0.00	0.00	0.00 0.50	309
## 244	0.00	0.00	0.00	0.00 0.51	300
## 245	0.00	0.00	0.00	0.00 0.50	316
## 246	0.00	0.00	0.00	0.00 0.52	306
## 247	0.00	0.00	0.00	0.00 0.50	321
## 248	0.00	0.00	0.00	0.00 0.29	335
## 249	0.00	0.00	0.00	0.00 0.29	330
## 250	0.00	0.00	0.00	0.00 0.29	341
## 251	0.00	0.00	0.00	0.00 0.50	304
## 252	0.00	0.00	0.00	0.00 0.50	298
## 253	0.00	0.00	0.00	0.00 0.50	297
## 254	0.00	0.00	0.00	0.00 0.50	306
## 255	0.00	0.00	0.00	0.00 0.50	303
## 256	0.00	0.00	0.00	0.00 0.52	294
## 257	0.00	0.00	0.00	0.00 0.52	310
## 258	0.00	0.00	0.00	0.00 0.76	326
## 259	0.00	0.00	0.00	0.00 0.75	317
## 260	0.00	0.00	0.00	0.00 0.75	297
## 261	0.00	0.00	0.00	0.00 0.75	296
## 262	0.00	0.00	0.00	0.00 0.75	296
## 263	0.00	0.00	0.00	0.00 0.76	286
## 264	0.00	0.00	0.00	0.00 0.77	294
## 265	0.00	0.00	0.00	0.00 0.76	290
## 266	0.00	0.00	0.00	0.00 0.76	291
## 267	0.00	0.00	0.00	0.00 0.76	279
## 268	0.00	0.00	0.00	0.00 0.77	265
## 269	0.00	0.00	0.00	0.00 0.80	287
## 270	0.00	0.00	0.00	0.00 0.76	252
## 271	0.00	0.00	0.00	0.00 0.76	288
## 272	0.00	0.00	0.00	0.00 0.77	307
## 273	0.00	0.00	0.00	0.00 0.78	321
## 274	0.00	0.00	0.00	0.00 0.78	336
## 275	0.00	0.00	0.00	0.00 0.78	342
## 276	0.00	0.00	0.00	0.00 0.77	332
## 277	0.00	0.00	0.00	0.00 0.77	337
## 278	0.00	0.00	0.00	0.00 0.80	328
## 279	0.00	0.00	0.00	0.00 0.81	352
## 280	0.00	0.00	0.00	0.00 0.80	362
## 281	0.00	0.00	0.00	0.00 0.80	362
## 282	0.00	0.00	0.00	0.00 0.77	359

## 283	0.00	0.00	0.00	0.00 0.76	364
## 284	0.00	0.00	0.00	0.00 0.76	347
## 285	0.00	0.00	0.00	0.00 0.77	340
## 286	0.00	0.00	0.00	0.00 0.77	349
## 287	0.00	0.00	0.00	0.00 0.77	365
## 288	0.00	0.00	0.00	0.00 0.78	357
## 289	0.00	0.00	0.00	0.00 0.81	370
## 290	0.00	0.00	0.00	0.00 0.79	354
## 291	0.00	0.00	0.00	0.00 0.77	365
## 292	0.00	0.00	0.00	0.00 0.77	369
## 293	0.00	0.00	0.00	0.00 0.77	377
## 294	0.80	756.00	0.00	0.00 0.78	381
## 295	0.00	0.00	0.00	0.00 0.77	378
## 296	0.00	0.00	0.00	0.00 0.76	371
## 297	0.00	0.00	0.00	0.00 0.76	376
## 298	0.00	0.00	0.00	0.00 0.77	368
## 299	0.00	0.00	0.00	0.00 0.76	385
## 300	0.00	0.00	0.00	0.00 0.77	381
## 301	0.00	0.00	0.00	0.00 0.76	390
## 302	0.00	0.00	0.00	0.00 0.76	388
## 303	0.00	0.00	0.00	0.00 0.77	392
## 304	0.00	0.00	0.00	0.00 0.76	396
## 305	0.00	0.00	0.00	0.00 0.76	398
## 306	0.00	0.00	0.00	0.00 0.76	398
## 307	0.00	0.00	0.00	0.00 0.77	382
## 308	0.00	0.00	0.00	0.00 0.78	380
## 309	0.00	0.00	0.00	0.00 0.80	387
## 310	0.00	0.00	0.00	0.00 0.78	388
## 311	0.00	0.00	0.00	0.00 0.80	382
## 312	0.00	0.00	0.00	0.00 0.80	363
## 313	0.00	0.00	0.00	0.00 0.79	397
## 314	0.00	0.00	0.00	0.00 0.79	405
## 315	0.00	0.00	0.00	0.00 0.79	397
## 316	0.00	0.00	0.00	0.00 0.79	402
## 317	0.00	0.00	0.00	0.00 0.80	409
## 318	0.00	0.00	0.00	0.00 0.81	400
## 319	0.00	0.00	0.00	0.00 0.82	417
## 320	0.00	0.00	0.00	0.00 0.82	409
## 321	0.00	0.00	0.00	0.00 0.83	406
## 322	0.00	0.00	0.00	0.00 1.08	406
## 323	0.00	0.00	0.00	0.00 1.08	397
## 324	0.00	0.00	0.00	0.00 1.05	391
## 325	0.00	0.00	0.00	0.00 1.03	386
## 326	0.00	0.00	0.00	0.00 1.01	385
## 327	0.00	0.00	0.00	0.00 1.02	385
## 328	0.00	0.00	0.00	0.00 1.04	376
## 329	0.00	0.00	0.00	0.00 1.03	364
## 330	0.00	0.00	0.00	0.00 1.03	368
## 331	0.00	0.00	0.00	0.00 1.03	350
## 332	0.00	0.00	0.00	0.00 1.04	326
## 333	0.00	0.00	0.00	0.00 1.09	331
## 334	0.00	0.00	0.00	0.00 1.05	288
## 335	0.00	0.00	0.00	0.00 1.03	332
## 336	0.00	0.00	0.00	0.00 1.03	348

## 337	0.00	0.00	0.00	0.00 1.01	369
## 338	0.00	0.00	0.00	0.00 1.01	356
## 339	0.00	0.00	0.00	0.00 1.01	359
## 340	0.00	0.00	0.00	0.00 1.01	356
## 341	0.00	0.00	0.00	0.00 1.01	351
## 342	0.00	0.00	0.00	0.00 1.01	368
## 343	0.00	0.00	0.00	0.00 1.03	363
## 344	0.00	0.00	0.00	0.00 1.02	377
## 345	0.00	0.00	0.00	0.00 1.01	389
## 346	0.00	0.00	0.00	0.00 1.02	383
## 347	0.00	0.00	0.00	0.00 1.01	400
## 348	0.00	0.00	0.00	0.00 1.03	383
## 349	0.00	0.00	0.00	0.00 1.03	389
## 350	0.00	0.00	0.00	0.00 1.03	391
## 351	0.00	0.00	0.00	0.00 1.03	380
## 352	0.00	0.00	0.00	0.00 1.02	374
## 353	0.00	0.00	0.00	0.00 1.04	352
## 354	0.00	0.00	0.00	0.00 1.02	346
## 355	0.00	0.00	0.00	0.00 1.01	377
## 356	0.00	0.00	0.00	0.00 1.01	370
## 357	0.00	0.00	0.00	0.00 1.01	384
## 358	0.00	0.00	0.00	0.00 1.01	379
## 359	0.00	0.00	0.00	0.00 1.01	381
## 360	0.00	0.00	0.00	0.00 1.01	373
## 361	0.00	0.00	0.00	0.00 1.02	382
## 362	0.00	0.00	0.00	0.00 1.03	388
## 363	0.00	0.00	0.00	0.00 1.03	381
## 364	0.00	0.00	0.00	0.00 1.05	389
## 365	0.00	0.00	0.00	0.00 1.03	396
## 366	0.00	0.00	0.00	0.00 1.03	404
## 367	0.00	0.00	0.00	0.00 1.03	399
## 368	0.00	0.00	0.00	0.00 1.02	392
## 369	0.00	0.00	0.00	0.00 1.01	396
## 370	0.00	0.00	0.00	0.00 1.01	391
## 371	0.00	0.00	0.00	0.00 1.04	387
## 372	0.00	0.00	0.00	0.00 1.03	379
## 373	0.00	0.00	0.00	0.00 1.03	382
## 374	0.00	0.00	0.00	0.00 1.02	373
## 375	0.00	0.00	0.00	0.00 1.02	372
## 376	0.00	0.00	0.00	0.00 1.06	366
## 377	0.00	0.00	0.00	0.00 1.04	337
## 378	0.00	0.00	0.00	0.00 1.03	373
## 379	0.00	0.00	0.00	0.00 1.02	367
## 380	0.00	0.00	0.00	0.00 1.02	367
## 381	0.00	0.00	0.00	0.00 1.02	364
## 382	0.00	0.00	0.00	0.00 1.02	365
## 383	0.00	0.00	0.00	0.00 1.02	364
## 384	0.00	0.00	0.00	0.00 1.03	364
## 385	0.00	0.00	0.00	0.00 1.04	367
## 386	0.00	0.00	0.00	0.00 1.04	373
## 387	0.00	0.00	0.00	0.00 1.02	371
## 388	0.00	0.00	0.00	0.00 1.01	373
## 389	0.00	0.00	0.00	0.00 1.01	364
## 390	0.00	0.00	0.00	0.00 1.01	356

## 391	0.00	0.00	0.00	0.00 1.02	373
## 392	0.00	0.00	0.00	0.00 1.01	349
## 393	0.00	0.00	0.00	0.00 1.01	340
## 394	0.00	0.00	0.00	0.00 1.01	336
## 395	0.00	0.00	0.00	0.00 1.01	309
## 396	0.00	0.00	0.00	0.00 1.05	307
## 397	0.00	0.00	0.00	0.00 1.02	280
## 398	0.00	0.00	0.00	0.00 1.01	323
## 399	0.00	0.00	0.00	0.00 1.01	328
## 400	0.00	0.00	0.00	0.00 1.02	342
## 401	0.00	0.00	0.00	0.00 1.02	356
## 402	0.00	0.00	0.00	0.00 1.02	365
## 403	0.00	0.00	0.00	0.00 1.02	351
## 404	0.00	0.00	0.00	0.00 1.02	358
## 405	0.00	0.00	0.00	0.00 1.01	359
## 406	0.00	0.00	0.00	0.00 1.03	355
## 407	0.00	0.00	0.00	0.00 1.03	366
## 408	0.00	0.00	0.00	0.00 1.03	364
## 409	0.00	0.00	0.00	0.00 1.03	359
## 410	1.08	768.00	0.00	0.00 1.05	362
## 411	0.00	0.00	0.00	0.00 1.05	365
## 412	0.00	0.00	0.00	0.00 1.04	357
## 413	0.00	0.00	0.00	0.00 0.29	342
## 414	0.00	0.00	0.00	0.00 0.31	341
## 415	0.00	0.00	0.00	0.00 0.32	341
## 416	0.00	0.00	0.00	0.00 1.02	347
## 417	0.00	0.00	0.00	0.00 1.05	354
## 418	0.00	0.00	0.00	0.00 1.03	339
## 419	0.00	0.00	0.00	0.00 1.04	360
## 420	0.00	0.00	0.00	0.00 1.04	347
## 421	0.00	0.00	0.00	0.00 1.03	350
## 422	0.00	0.00	0.00	0.00 1.03	347
## 423	0.00	0.00	0.00	0.00 1.03	348
## 424	0.00	0.00	0.00	0.00 1.04	346
## 425	0.00	0.00	0.00	0.00 1.04	352
## 426	0.00	0.00	0.00	0.00 1.04	357
## 427	0.00	0.00	0.00	0.00 1.04	354
## 428	0.00	0.00	0.00	0.00 1.07	365
## 429	0.00	0.00	0.00	0.00 1.08	363
## 430	0.00	0.00	0.00	0.00 1.06	356
## 431	0.00	0.00	0.00	0.00 1.05	365
## 432	0.00	0.00	0.00	0.00 1.03	359
## 433	0.00	0.00	0.00	0.00 1.03	358
## 434	0.00	0.00	0.00	0.00 1.05	349
## 435	0.00	0.00	0.00	0.00 1.04	349
## 436	0.00	0.00	0.00	0.00 1.03	361
## 437	0.00	0.00	0.00	0.00 1.01	356
## 438	0.00	0.00	0.00	0.00 1.03	364
## 439	0.00	0.00	0.00	0.00 1.02	367
## 440	0.00	0.00	0.00	0.00 1.01	366
## 441	0.25	0.30	0.32	0.50 1.03	356
## 442	0.00	0.00	0.00	0.00 1.04	365
## 443	0.00	0.00	0.00	0.00 1.04	355
## 444	0.00	0.00	0.00	0.00 1.02	355



## 445	0.00	0.00	0.00	0.00 1.02	362
## 446	0.00	0.00	0.00	0.00 1.02	359
## 447	0.00	0.00	0.00	0.00 1.03	364
## 448	0.00	0.00	0.00	0.00 1.28	376
## 449	0.00	0.00	0.00	0.00 1.30	373
## 450	0.00	0.00	0.00	0.00 1.30	373
## 451	0.00	0.00	0.00	0.00 1.30	374
## 452	0.00	0.00	0.00	0.00 1.30	378
## 453	0.00	0.00	0.00	0.00 1.32	366
## 454	0.45	0.52	0.55	1.30 1.33	362
## 455	1.40	1.41	1.42	1.56 1.33	351
## 456	0.54	0.66	0.67	0.81 1.33	343
## 457	1.40	1.41	1.42	1.55 1.33	339
## 458	0.50	0.66	0.66	0.80 1.38	335
## 459	1.39	1.41	1.42	1.55 1.34	313
## 460	0.63	0.66	0.66	0.80 1.34	356
## 461	1.35	1.41	1.42	1.50 1.34	356
## 462	0.53	0.66	0.66	0.80 1.35	359
## 463	1.35	1.41	1.42	1.55 1.30	374
## 464	0.63	0.66	0.66	0.78 1.29	384
## 465	1.35	1.41	1.42	1.55 1.27	394
## 466	0.63	0.66	0.66	0.75 1.26	395
## 467	1.39	1.41	1.43	1.53 1.28	402
## 468	0.60	0.66	0.66	0.80 1.30	403
## 469	1.39	1.41	1.42	1.55 1.33	392
## 470	0.59	0.66	0.66	0.75 1.31	396
## 471	1.39	1.41	1.42	1.50 1.29	399
## 472	0.41	0.66	0.66	0.75 1.28	399
## 473	1.39	1.41	1.42	1.50 1.27	390
## 474	0.30	0.41	0.41	0.50 1.27	396
## 475	1.15	1.16	1.17	1.30 1.30	396
## 476	0.34	0.41	0.41	0.50 1.30	397
## 477	1.15	1.16	1.17	1.30 1.30	387
## 478	0.30	0.41	0.41	0.53 1.29	378
## 479	1.15	1.16	1.17	1.30 1.29	386
## 480	0.30	0.41	0.41	0.50 1.34	387
## 481	1.10	1.16	1.17	1.25 1.29	386
## 482	0.30	0.41	0.41	0.50 1.29	386
## 483	1.15	1.16	1.17	1.30 1.29	381
## 484	0.30	0.41	0.41	0.50 1.27	382
## 485	1.15	1.16	1.17	1.30 1.27	400
## 486	0.30	0.41	0.41	0.50 1.29	395
## 487	1.14	1.16	1.17	1.28 1.29	398
## 488	0.30	0.41	0.41	0.50 1.28	400
## 489	1.15	1.16	1.17	1.25 1.29	391
## 490	0.25	0.41	0.41	0.49 1.28	409
## 491	1.05	1.16	1.17	1.28 1.34	396
## 492	0.25	0.41	0.41	0.50 1.34	399
## 493	1.05	1.07	1.08	1.30 1.32	405
## 494	0.28	0.31	0.32	0.55 1.30	405
## 495	1.14	1.16	1.17	1.25 1.32	398
## 496	0.30	0.41	0.41	0.50 1.33	405
## 497	1.14	1.16	1.17	1.30 1.32	398
## 498	0.36	0.41	0.41	0.53 1.33	395

## 499	1.14	1.16	1.17	1.30 1.36	395
## 500	0.30	0.41	0.41	0.50 1.38	397
## 501	1.13	1.16	1.17	1.30 1.38	389
## 502	0.30	0.41	0.41	0.50 1.38	395
## 503	1.14	1.16	1.17	1.28 1.38	393
## 504	0.30	0.41	0.41	0.53 1.38	407
## 505	1.05	1.16	1.17	1.28 1.41	411
## 506	0.36	0.41	0.41	0.56 1.40	404
## 507	1.14	1.16	1.17	1.28 1.40	406
## 508	0.30	0.41	0.41	0.52 1.40	401
## 509	1.14	1.16	1.17	1.30 1.40	386
## 510	0.32	0.41	0.41	0.50 1.50	418
## 511	1.13	1.16	1.17	1.28 1.47	407
## 512	0.36	0.41	0.41	0.50 1.45	406
## 513	1.14	1.16	1.17	1.28 1.47	415
## 514	0.31	0.41	0.41	0.50 1.47	415
## 515	1.14	1.16	1.17	1.25 1.64	408
## 516	0.36	0.40	0.41	0.50 1.68	406
## 517	1.14	1.16	1.17	1.25 1.70	410
## 518	1.14	1.16	1.17	1.25 1.70	380
## 519	0.36	0.40	0.41	0.50 1.70	378
## 520	1.14	1.16	1.17	1.22 1.79	369
## 521	1.15	1.75	1.77	1.85 1.77	361
## 522	1.50	1.80	1.82	1.84 1.81	344
## 523	1.57	1.69	1.70	1.74 1.70	348
## 524	1.60	1.70	1.70	1.75 1.70	349
## 525	1.60	1.70	1.70	1.75 1.70	352
## 526	1.60	1.70	1.70	1.75 1.70	341
## 527	1.60	1.70	1.71	1.75 1.70	336
## 528	1.60	1.70	1.71	1.75 1.70	343
## 529	1.59	1.67	1.68	1.73 1.68	345
## 530	1.62	1.67	1.68	1.73 1.68	346
## 531	1.62	1.70	1.71	1.75 1.70	355
## 532	1.66	1.70	1.71	1.75 1.70	341
## 533	1.64	1.69	1.70	1.75 1.69	346
## 534	1.59	1.66	1.67	1.73 1.67	344
## 535	1.59	1.67	1.67	1.73 1.67	340
## 536	1.40	1.67	1.67	1.72 1.67	348
## 537	1.60	1.68	1.68	1.73 1.68	339
## 538	1.50	1.66	1.67	1.72 1.67	345
## 539	1.60	1.67	1.68	1.72 1.67	333
## 540	1.60	1.67	1.68	1.72 1.68	341
## 541	1.50	1.71	1.72	1.76 1.72	341
## 542	1.40	1.70	1.71	1.74 1.70	352
## 543	1.60	1.70	1.70	1.74 1.70	350
## 544	1.55	1.70	1.70	1.73 1.70	342
## 545	1.62	1.68	1.68	1.72 1.68	349
## 546	1.60	1.67	1.68	1.72 1.67	347
## 547	1.61	1.67	1.68	1.75 1.68	342
## 548	1.55	1.68	1.68	1.75 1.68	354
## 549	1.55	1.69	1.69	1.75 1.69	357
## 550	1.55	1.70	1.70	1.77 1.70	359
## 551	1.60	1.69	1.70	1.76 1.70	353
## 552	1.40	1.73	1.74	1.78 1.73	362

## 553	1.63	1.70	1.70	1.76 1.70	350
## 554	1.55	1.71	1.72	1.77 1.71	366
## 555	1.60	1.69	1.69	1.76 1.69	371
## 556	1.60	1.65	1.67	1.71 1.66	371
## 557	1.55	1.62	1.63	1.70 1.63	359
## 558	1.59	1.63	1.63	1.72 1.63	356
## 559	1.65	1.71	1.71	1.79 1.71	361
## 560	1.63	1.70	1.70	1.75 1.70	367
## 561	1.65	1.70	1.70	1.75 1.70	365
## 562	1.65	1.70	1.70	1.76 1.70	374
## 563	1.72	1.77	1.78	1.84 1.78	392
## 564	1.70	1.77	1.77	1.82 1.77	386
## 565	1.65	1.76	1.76	1.80 1.76	385
## 566	1.65	1.72	1.72	1.76 1.72	385
## 567	1.65	1.69	1.71	1.74 1.70	389
## 568	1.62	1.69	1.70	1.73 1.69	385
## 569	1.61	1.67	1.67	1.71 1.67	386
## 570	1.60	1.66	1.67	1.72 1.66	372
## 571	1.61	1.64	1.65	1.70 1.65	393
## 572	1.60	1.68	1.68	1.72 1.68	388
## 573	1.76	1.87	1.87	1.91 1.87	382
## 574	1.82	1.87	1.88	1.93 1.87	386
## 575	1.80	1.85	1.86	1.90 1.85	376
## 576	1.79	1.84	1.85	1.90 1.84	373
## 577	1.77	1.83	1.84	1.91 1.83	375
## 578	1.78	1.83	1.84	1.91 1.83	363
## 579	1.80	1.90	1.90	1.93 1.90	361
## 580	1.76	1.88	1.89	1.94 1.89	364
## 581	1.75	1.88	1.90	1.92 1.89	354
## 582	1.80	1.88	1.89	1.92 1.88	355
## 583	1.80	1.90	1.91	1.95 1.90	364
## 584	1.60	2.10	2.10	2.15 2.10	322
## 585	1.77	2.00	2.01	2.05 2.00	337
## 586	1.80	1.97	1.98	2.01 1.98	356
## 587	1.83	1.95	1.95	1.98 1.95	366
## 588	1.81	1.90	1.90	1.93 1.90	367
## 589	1.82	1.87	1.87	1.91 1.87	389
## 590	1.82	1.86	1.87	1.91 1.87	381
## 591	1.82	1.86	1.87	1.91 1.86	377
## 592	1.82	1.86	1.87	1.91 1.87	366
## 593	1.82	1.87	1.88	1.92 1.87	372
## 594	1.86	1.92	1.92	1.95 1.92	398
## 595	1.85	1.90	1.91	1.94 1.91	392
## 596	1.82	1.87	1.87	1.92 1.87	389
## 597	1.82	1.88	1.88	1.92 1.88	388
## 598	1.81	1.86	1.86	1.91 1.86	395
## 599	1.80	1.86	1.86	1.91 1.86	392
## 600	1.81	1.89	1.90	1.92 1.89	382
## 601	1.82	1.86	1.86	1.91 1.86	404
## 602	1.83	1.89	1.90	1.93 1.89	387
## 603	1.80	1.87	1.87	1.91 1.87	393
## 604	1.80	1.86	1.87	1.91 1.86	391
## 605	1.82	1.91	1.91	1.95 1.91	400
## 606	1.81	1.85	1.86	1.91 1.86	396

## 607	1.80	1.90	1.90	1.94 1.90	392
## 608	1.80	1.83	1.83	1.93 1.83	403
## 609	1.80	1.84	1.84	1.90 1.84	399
## 610	1.81	1.86	1.87	1.92 1.86	387
## 611	1.82	1.87	1.87	1.93 1.87	391
## 612	1.84	1.90	1.90	1.94 1.90	402
## 613	1.83	1.87	1.88	1.93 1.87	399
## 614	1.85	1.89	1.89	1.93 1.89	396
## 615	1.85	1.90	1.91	1.94 1.91	398
## 616	1.85	1.96	1.97	2.00 1.97	417
## 617	1.86	1.97	1.98	2.01 1.98	417
## 618	1.85	1.89	1.90	1.93 1.90	413
## 619	1.84	1.88	1.89	1.93 1.89	413
## 620	1.82	1.88	1.89	1.92 1.88	415
## 621	1.84	1.89	1.89	1.93 1.89	417
## 622	1.85	1.92	1.93	1.96 1.92	420
## 623	1.84	1.94	1.94	1.97 1.94	427
## 624	1.84	1.94	1.95	1.98 1.94	441
## 625	1.84	1.94	1.95	1.98 1.94	434
## 626	1.85	1.92	1.93	1.96 1.92	422
## 627	1.82	1.92	1.93	1.96 1.92	416
## 628	1.85	1.95	1.95	1.99 1.95	428
## 629	1.85	1.92	1.93	1.96 1.93	427
## 630	1.84	1.92	1.93	1.96 1.93	429
## 631	1.85	1.91	1.91	1.96 1.91	432
## 632	1.85	1.91	1.91	1.96 1.91	428
## 633	1.85	1.91	1.92	1.96 1.92	432
## 634	1.85	1.92	1.92	1.96 1.92	431
## 635	1.80	1.92	1.92	1.96 1.92	434
## 636	1.85	1.91	1.91	1.95 1.91	440
## 637	1.85	1.91	1.92	1.95 1.91	431
## 638	1.86	1.97	1.97	2.00 1.97	410
## 639	1.83	1.91	1.92	1.95 1.91	424
## 640	1.84	1.90	1.90	1.94 1.90	430
## 641	1.80	1.90	1.91	1.95 1.90	415
## 642	1.84	1.90	1.90	1.95 1.90	417
## 643	1.88	1.94	1.94	1.97 1.94	404
## 644	1.83	1.91	1.91	1.95 1.91	408
## 645	1.80	1.91	1.91	1.95 1.91	415
## 646	2.01	2.14	2.15	2.18 2.15	402
## 647	2.00	2.23	2.24	2.26 2.24	372
## 648	2.05	2.19	2.20	2.24 2.20	416
## 649	2.10	2.18	2.19	2.23 2.18	419
## 650	2.11	2.18	2.18	2.23 2.18	427
## 651	2.11	2.16	2.17	2.21 2.17	420
## 652	2.10	2.14	2.14	2.20 2.14	429
## 653	2.00	2.13	2.13	2.18 2.13	434
## 654	2.05	2.14	2.14	2.20 2.14	431
## 655	1.95	2.15	2.16	2.21 2.16	430
## 656	2.11	2.16	2.16	2.22 2.16	435
## 657	2.00	2.19	2.20	2.24 2.19	423
## 658	2.05	2.17	2.18	2.22 2.17	424
## 659	2.10	2.17	2.17	2.22 2.17	417
## 660	2.11	2.18	2.18	2.23 2.18	415

## 661	2.12	2.17	2.17	2.22 2.17	413
## 662	2.06	2.17	2.17	2.21 2.17	408
## 663	2.10	2.15	2.15	2.20 2.15	408
## 664	2.10	2.16	2.17	2.21 2.16	420
## 665	2.10	2.17	2.17	2.22 2.17	425
## 666	2.12	2.17	2.17	2.21 2.17	413
## 667	2.07	2.17	2.17	2.22 2.17	412
## 668	2.10	2.17	2.17	2.21 2.17	412
## 669	2.08	2.19	2.20	2.25 2.19	427
## 670	2.10	2.20	2.21	2.25 2.20	434
## 671	2.15	2.24	2.24	2.29 2.24	437
## 672	2.10	2.23	2.23	2.27 2.23	436
## 673	2.10	2.21	2.22	2.25 2.22	437
## 674	2.10	2.16	2.17	2.21 2.16	424
## 675	2.06	2.20	2.20	2.25 2.20	439
## 676	2.12	2.18	2.19	2.24 2.19	436
## 677	2.00	2.17	2.17	2.22 2.17	431
## 678	2.12	2.17	2.17	2.22 2.17	440
## 679	2.12	2.25	2.26	2.30 2.26	436
## 680	2.16	2.25	2.26	2.30 2.25	442
## 681	2.15	2.22	2.22	2.26 2.22	436
## 682	2.10	2.18	2.19	2.23 2.18	427
## 683	2.13	2.17	2.17	2.22 2.17	406
## 684	2.15	2.22	2.22	2.26 2.22	414
## 685	2.13	2.18	2.19	2.23 2.18	433
## 686	2.12	2.17	2.18	2.23 2.17	434
## 687	2.13	2.18	2.19	2.23 2.19	429
## 688	2.10	2.23	2.23	2.27 2.23	427
## 689	2.16	2.27	2.28	2.31 2.27	423
## 690	2.17	2.22	2.23	2.26 2.22	435
## 691	2.20	2.23	2.23	2.40 2.23	455
## 692	2.15	2.31	2.40	2.70 2.20	66
## 693	2.10	2.28	2.36	2.42 2.20	71
## 694	2.15	2.20	2.28	2.33 2.19	73
## 695	2.14	2.17	2.24	2.30 2.20	70
## 696	2.15	2.17	2.25	2.30 2.19	72
## 697	2.15	2.18	2.26	2.31 2.19	74
## 698	2.15	2.19	2.27	2.32 2.19	70
## 699	2.25	2.28	2.37	2.45 2.19	64
## 700	2.15	2.30	2.39	2.45 2.20	66
## 701	2.10	2.29	2.37	2.44 2.20	61
## 702	2.35	2.40	2.48	2.54 2.20	72
## 703	2.35	2.39	2.47	2.54 2.40	50
## 704	2.38	2.41	2.49	2.55 2.40	69
## 705	2.30	2.43	2.52	2.57 2.40	69
## 706	2.30	2.43	2.52	2.57 2.40	67
## 707	2.30	2.45	2.54	2.60 2.40	71
## 708	2.70	2.95	3.20	6.25 2.40	67
## 709	2.30	3.10	3.29	3.70 2.40	55
## 710	2.30	2.70	2.78	2.89 2.40	56
## 711	2.30	2.43	2.51	2.60 2.40	62
## 712	2.35	2.39	2.47	2.54 2.40	68
## 713	2.38	2.40	2.50	2.55 2.40	68
## 714	2.30	2.44	2.52	2.59 2.40	70

## 715	2.37	2.41	2.49	2.56 2.40	64
## 716	2.35	2.38	2.46	2.52 2.40	65
## 717	2.34	2.38	2.46	2.53 2.40	63
## 718	2.38	2.41	2.50	2.56 2.40	59
## 719	2.35	2.37	2.46	2.52 2.40	58
## 720	2.35	2.37	2.46	2.52 2.40	63
## 721	2.34	2.37	2.46	2.52 2.40	63
## 722	2.35	2.37	2.46	2.52 2.40	58
## 723	2.35	2.38	2.46	2.52 2.40	48
## 724	2.35	2.40	2.48	2.55 2.40	55
## 725	2.34	2.38	2.46	2.53 2.40	64
## 726	2.32	2.37	2.45	2.52 2.40	69
## 727	2.32	2.37	2.45	2.52 2.40	68
## 728	2.35	2.36	2.45	2.52 2.40	60
## 729	2.30	2.55	2.65	2.85 2.40	63
## 730	2.30	2.44	2.52	2.59 2.40	66
## 731	2.30	2.38	2.47	2.53 2.40	76
## 732	2.34	2.37	2.45	2.51 2.40	82
## 733	2.33	2.35	2.44	2.49 2.40	83
## 734	2.34	2.36	2.45	2.51 2.40	83
## 735	2.33	2.35	2.44	2.50 2.40	78
## 736	2.35	2.40	2.48	2.56 2.40	77
## 737	2.33	2.36	2.44	2.50 2.40	65
## 738	2.34	2.36	2.44	2.50 2.40	65
## 739	2.34	2.36	2.45	2.50 2.40	65
## 740	2.38	2.41	2.49	2.56 2.40	68
## 741	2.35	2.37	2.46	2.51 2.40	56
## 742	2.34	2.37	2.46	2.51 2.40	61
## 743	2.34	2.37	2.45	2.51 2.40	62
## 744	2.34	2.37	2.45	2.51 2.40	74
## 745	2.34	2.37	2.45	2.51 2.40	77
## 746	2.34	2.37	2.45	2.51 2.40	72
## 747	2.34	2.37	2.44	2.51 2.40	71
## 748	2.35	2.55	2.64	2.82 2.40	80
## 749	2.35	2.36	2.45	2.52 2.40	75
## 750	2.34	2.36	2.45	2.51 2.40	93
## 751	2.33	2.36	2.44	2.51 2.40	87
## 752	2.33	2.36	2.44	2.50 2.40	88
## 753	2.34	2.37	2.46	2.52 2.40	83
## 754	2.34	2.36	2.44	2.51 2.40	79
## 755	2.35	2.36	2.45	2.51 2.40	81
## 756	2.35	2.37	2.46	2.52 2.40	79
## 757	2.33	2.38	2.46	2.53 2.40	75
## 758	2.36	2.39	2.47	2.53 2.40	74
## 759	2.40	2.43	2.52	2.59 2.40	78
## 760	2.35	2.38	2.47	2.53 2.40	69
## 761	2.38	2.40	2.50	2.58 2.40	63
## 762	2.40	2.46	2.54	2.61 2.40	61
## 763	2.39	2.42	2.51	2.59 2.41	73
## 764	2.35	2.38	2.46	2.52 2.41	69
## 765	2.35	2.37	2.45	2.51 2.41	70
## 766	2.35	2.37	2.46	2.52 2.40	78
## 767	2.34	2.38	2.46	2.53 2.40	76
## 768	2.34	2.42	2.50	2.58 2.41	72

## 769	2.40	2.56	3.18	3.70 2.41	74
## 770	2.40	2.41	2.51	2.67 2.43	71
## 771	2.40	2.43	2.53	2.61 2.41	66
## 772	2.41	2.43	2.52	2.58 2.41	78
## 773	2.40	2.43	2.52	2.58 2.41	79
## 774	2.40	2.43	2.53	2.58 2.41	79
## 775	2.40	2.43	2.52	2.58 2.41	73
## 776	2.37	2.42	2.51	2.57 2.41	72
## 777	2.38	2.42	2.51	2.57 2.41	72
## 778	2.39	2.40	2.49	2.55 2.41	72
## 779	2.39	2.40	2.49	2.55 2.41	73
## 780	2.40	2.43	2.52	2.60 2.41	67
## 781	2.40	2.43	2.53	2.65 2.41	57
## 782	2.43	2.47	2.57	2.63 2.41	55
## 783	2.43	2.46	2.55	2.63 2.42	55
## 784	2.17	2.41	2.44	2.55 2.43	58
## 785	2.17	2.40	2.44	2.55 2.43	435
## 786	2.17	2.40	2.45	2.55 2.45	441
## 787	2.17	2.40	2.45	2.57 2.41	439
## 788	2.17	2.40	2.45	2.55 2.41	440
## 789	2.17	2.40	2.45	2.55 2.45	440
## 790	2.17	2.40	2.45	2.55 2.46	448
## 791	2.17	2.40	2.45	2.55 2.75	461
## 792	2.28	2.40	2.45	2.55 2.50	461
## 793	2.25	2.35	2.41	2.55 2.46	460
## 794	2.29	2.35	2.41	2.52 2.41	462
## 795	2.25	2.35	2.40	2.52 2.40	457
## 796	2.25	2.35	2.40	2.52 2.41	460
## 797	2.24	2.35	2.40	2.52 2.40	459
## 798	2.25	2.35	2.40	2.52 2.38	454
## 799	2.23	2.35	2.39	2.52 2.36	455
## 800	2.25	2.35	2.38	2.52 2.35	446
## 801	2.23	2.35	2.38	2.52 2.36	436
## 802	2.20	2.35	2.40	2.52 2.45	452
## 803	2.25	2.35	2.40	2.52 2.40	452
## 804	2.25	2.35	2.40	2.52 2.39	447
## 805	2.17	2.35	2.39	2.52 2.36	450
## 806	2.25	2.35	2.39	2.52 2.36	444
## 807	2.20	2.35	2.39	2.52 2.34	444
## 808	2.25	2.35	2.38	2.52 2.34	435
## 809	2.20	2.35	2.38	2.52 2.34	440
## 810	2.20	2.35	2.39	2.52 2.38	438
## 811	2.25	2.35	2.39	2.52 2.39	447
## 812	2.17	2.35	2.39	2.52 2.39	449
## 813	2.17	2.35	2.40	2.58 2.48	449
## 814	2.25	2.35	2.39	2.52 2.37	446
## 815	2.25	2.35	2.38	2.52 2.36	439
## 816	2.25	2.35	2.38	2.52 2.36	442
## 817	2.20	2.34	2.38	2.52 2.37	444
## 818	2.24	2.34	2.38	2.52 2.37	449
## 819	2.20	2.34	2.38	2.52 2.37	451
## 820	2.24	2.33	2.38	2.51 2.36	449
## 821	2.24	2.34	2.37	2.52 2.36	451
## 822	2.24	2.33	2.37	2.52 2.34	443

## 823	2.25	2.34	2.37	2.52 2.32	437
## 824	2.17	2.35	2.38	2.52 2.38	449
## 825	2.17	2.34	2.38	2.52 2.36	451
## 826	2.20	2.34	2.38	2.52 2.34	453
## 827	2.20	2.34	2.38	2.52 2.33	461
## 828	2.22	2.34	2.38	2.52 2.35	456
## 829	2.20	2.34	2.38	2.52 2.38	439
## 830	2.20	2.35	2.39	2.52 2.40	446
## 831	2.20	2.35	2.39	2.52 2.43	441
## 832	2.25	2.34	2.39	2.51 2.40	437
## 833	2.20	2.35	2.40	2.52 2.50	417
## 834	2.17	2.35	2.40	2.52 2.38	457
## 835	2.25	2.35	2.41	2.53 2.49	478
## 836	2.23	2.35	2.42	2.58 2.55	489
## 837	2.25	2.35	2.42	2.62 2.58	471
## 838	2.25	2.35	2.42	2.52 2.46	481
## 839	2.25	2.35	2.42	2.52 2.45	483
## 840	2.20	2.35	2.42	2.52 2.45	482
## 841	2.23	2.35	2.41	2.50 2.40	474
## 842	2.17	2.35	2.39	2.50 2.34	473
## 843	2.17	2.35	2.40	2.50 2.43	470
## 844	2.17	2.35	2.42	2.50 2.44	474
## 845	2.17	2.35	2.42	2.52 2.45	476
## 846	2.17	2.35	2.42	2.51 2.44	482
## 847	2.17	2.35	2.41	2.50 2.40	475
## 848	2.17	2.35	2.41	2.52 2.38	469
## 849	2.17	2.35	2.41	2.52 2.38	475
## 850	2.17	2.35	2.41	2.52 2.40	486
## 851	2.17	2.34	2.41	2.52 2.41	480
## 852	2.17	2.34	2.40	2.50 2.40	470
## 853	2.17	2.34	2.40	2.50 2.39	483
## 854	2.17	2.34	2.40	2.52 2.38	486
## 855	2.17	2.34	2.41	2.57 2.53	513
## 856	1.87	2.09	2.15	2.25 2.19	493
## 857	1.87	2.08	2.15	2.24 2.18	480
## 858	1.87	2.09	2.14	2.27 2.12	493
## 859	1.87	2.10	2.13	2.25 2.10	493
## 860	1.95	2.08	2.12	2.20 2.09	491
## 861	1.90	2.08	2.12	2.25 2.07	485
## 862	1.90	2.08	2.12	2.25 2.10	482
## 863	1.87	2.08	2.12	2.27 2.11	497
## 864	1.90	2.09	2.13	2.27 2.16	501
## 865	1.87	2.09	2.13	2.27 2.12	498
## 866	1.87	2.08	2.13	2.22 2.17	496
## 867	1.90	2.09	2.13	2.20 2.12	487
## 868	1.87	2.09	2.13	2.19 2.10	498
## 869	1.90	2.08	2.13	2.19 2.12	498
## 870	1.95	2.09	2.12	2.18 2.08	498
## 871	2.00	2.08	2.12	2.18 2.07	494
## 872	1.90	2.08	2.12	2.18 2.07	481
## 873	1.90	2.09	2.12	2.18 2.08	481
## 874	1.87	2.09	2.13	2.20 2.14	483
## 875	1.87	2.08	2.13	2.20 2.11	490
## 876	1.87	2.08	2.13	2.20 2.11	487



## 877	1.90	2.08	2.13	2.35 2.15	480
## 878	1.87	2.09	2.14	2.20 2.15	490
## 879	1.87	2.09	2.14	2.22 2.20	496
## 880	1.87	2.09	2.14	2.22 2.20	500
## 881	1.87	2.09	2.13	2.18 2.15	502
## 882	1.87	2.09	2.13	2.20 2.11	491
## 883	1.87	2.09	2.14	2.20 2.13	495
## 884	1.87	2.09	2.13	2.20 2.14	491
## 885	1.87	2.10	2.14	2.23 2.18	491
## 886	1.87	2.11	2.15	2.22 2.19	482
## 887	1.87	2.15	2.40	3.30 2.42	498
## 888	1.87	2.10	2.50	5.55 5.25	509
## 889	1.87	2.09	2.25	2.60 2.50	504
## 890	1.66	1.80	1.90	2.10 1.90	485
## 891	1.70	1.80	1.90	2.10 1.85	490
## 892	1.66	1.80	1.90	2.00 1.82	470
## 893	1.66	1.80	1.90	2.05 1.94	453
## 894	1.70	1.80	1.92	2.03 2.00	438
## 895	1.69	1.79	1.88	2.00 1.82	434
## 896	1.68	1.79	1.85	2.00 1.80	427
## 897	1.66	1.83	1.95	2.39 2.35	414
## 898	1.66	1.80	1.88	2.00 1.84	430
## 899	1.70	1.79	1.87	1.98 1.82	439
## 900	1.70	1.79	1.86	1.98 1.81	430
## 901	1.66	1.79	1.83	1.97 1.79	425
## 902	1.66	1.79	1.83	1.94 1.80	428
## 903	1.66	1.79	1.83	1.94 1.82	431
## 904	1.66	1.79	1.83	1.95 1.82	432
## 905	1.66	1.79	1.83	1.95 1.82	428
## 906	1.66	1.80	1.83	1.95 1.82	422
## 907	1.66	1.85	1.90	2.00 1.95	428
## 908	1.70	1.80	1.93	2.06 2.02	442
## 909	1.66	1.79	1.88	2.00 1.93	441
## 910	1.70	1.80	1.85	1.95 1.85	442
## 911	1.70	1.80	1.85	1.93 1.83	434
## 912	1.70	1.79	1.85	1.98 1.85	439
## 913	1.68	1.79	1.85	1.95 1.84	437
## 914	1.66	1.79	1.85	1.95 1.84	425
## 915	1.70	1.79	1.84	1.95 1.81	421
## 916	1.66	1.79	1.83	1.95 1.80	423
## 917	1.70	1.79	1.83	1.95 1.78	426
## 918	1.68	1.79	1.83	2.00 1.80	425
## 919	1.43	1.55	1.60	1.80 1.73	444
## 920	1.43	1.55	1.57	1.70 1.55	445
## 921	1.45	1.53	1.57	1.65 1.54	445
## 922	1.45	1.53	1.56	1.75 1.55	441
## 923	1.45	1.53	1.56	1.70 1.53	432
## 924	1.42	1.53	1.56	1.75 1.53	427
## 925	1.41	1.53	1.56	1.75 1.53	421
## 926	1.41	1.53	1.56	1.75 1.54	420
## 927	1.44	1.53	1.56	1.75 1.54	418
## 928	1.41	1.53	1.56	1.75 1.55	421
## 929	1.41	1.53	1.56	1.75 1.55	418
## 930	1.41	1.53	1.56	1.75 1.52	414

## 931	1.45	1.54	1.56	1.75 1.53	405
## 932	1.45	1.54	1.56	1.75 1.54	399
## 933	1.47	1.53	1.56	1.71 1.55	402
## 934	1.48	1.54	1.56	1.65 1.56	394
## 935	1.47	1.53	1.55	1.75 1.54	390
## 936	1.45	1.53	1.55	1.67 1.51	388
## 937	1.45	1.53	1.55	1.70 1.50	382
## 938	1.48	1.53	1.58	1.68 1.62	382
## 939	1.45	1.54	1.57	1.70 1.60	397
## 940	1.45	1.53	1.56	1.75 1.51	396
## 941	1.45	1.53	1.55	1.70 1.50	393
## 942	1.45	1.53	1.55	1.75 1.52	390
## 943	1.45	1.53	1.55	1.75 1.52	385
## 944	1.45	1.53	1.55	1.75 1.53	388
## 945	1.45	1.53	1.55	1.75 1.51	387
## 946	1.45	1.53	1.55	1.75 1.50	394
## 947	1.45	1.53	1.55	1.75 1.49	384
## 948	1.45	1.53	1.55	1.75 1.50	382
## 949	1.45	1.53	1.59	1.75 1.60	373
## 950	1.47	1.53	1.55	1.75 1.50	376
## 951	1.45	1.53	1.55	1.70 1.50	374
## 952	1.45	1.53	1.55	1.75 1.50	362
## 953	1.47	1.53	1.55	1.75 1.49	346
## 954	1.47	1.53	1.55	1.65 1.50	350
## 955	1.50	1.53	1.55	1.65 1.50	345
## 956	1.47	1.53	1.55	1.65 1.49	343
## 957	1.45	1.53	1.55	1.75 1.50	341
## 958	1.45	1.53	1.55	1.75 1.51	326
## 959	1.00	1.53	1.58	1.75 1.55	329
## 960	1.46	1.53	1.55	1.70 1.50	344
## 961	1.45	1.53	1.55	1.65 1.52	350
## 962	1.45	1.53	1.55	1.65 1.52	357
## 963	1.45	1.53	1.55	1.65 1.53	356
## 964	1.48	1.53	1.55	1.67 1.52	355
## 965	1.48	1.53	1.55	1.66 1.52	361
## 966	1.50	1.53	1.55	1.65 1.52	367
## 967	1.48	1.53	1.55	1.65 1.52	377
## 968	1.48	1.53	1.55	1.67 1.52	371
## 969	1.47	1.53	1.55	1.75 1.53	378
## 970	1.50	1.53	1.55	1.75 1.52	377
## 971	1.47	1.53	1.55	1.75 1.52	383
## 972	1.45	1.53	1.55	1.65 1.51	375
## 973	1.45	1.53	1.55	1.75 1.51	379
## 974	1.47	1.53	1.55	1.70 1.51	377
## 975	1.50	1.53	1.55	1.65 1.51	379
## 976	1.48	1.53	1.55	1.65 1.51	381
## 977	1.47	1.53	1.55	1.70 1.51	378
## 978	1.47	1.53	1.55	1.70 1.51	377
## 979	1.49	1.57	1.60	1.70 1.55	379
## 980	1.50	1.57	1.60	1.70 1.57	396
## 981	1.50	1.57	1.60	1.68 1.57	395
## 982	1.50	1.57	1.59	1.68 1.58	400
## 983	1.50	1.57	1.59	1.70 1.57	410
## 984	1.50	1.57	1.59	1.70 1.57	415

## 985	1.50	1.57	1.59	1.70 1.56	415
## 986	1.50	1.57	1.59	1.70 1.56	415
## 987	1.45	1.57	1.58	1.69 1.56	415
## 988	1.47	1.57	1.58	1.69 1.55	424
## 989	1.48	1.57	1.58	1.70 1.55	420
## 990	1.49	1.57	1.59	1.70 1.56	414
## 991	1.41	1.57	1.59	1.72 1.58	426
## 992	1.41	1.57	1.59	1.70 1.57	425
## 993	1.49	1.57	1.59	1.69 1.59	432
## 994	1.50	1.57	1.58	1.69 1.56	430
## 995	1.47	1.57	1.59	1.69 1.56	428
## 996	1.45	1.57	1.59	1.69 1.57	429
## 997	1.45	1.57	1.59	1.70 1.57	433
## 998	1.50	1.57	1.58	1.70 1.57	434
## 999	1.49	1.57	1.59	1.70 1.59	436
## 1000	1.40	1.57	1.59	1.70 1.57	451
## 1001	1.40	1.57	1.60	1.70 1.63	451
## 1002	1.00	1.07	1.10	1.20 1.22	459
## 1003	1.00	1.07	1.09	1.20 1.11	472
## 1004	1.00	1.08	1.09	1.20 1.08	466
## 1005	0.95	1.08	1.10	1.20 1.08	468
## 1006	0.95	1.08	1.10	1.20 1.10	480
## 1007	0.97	1.08	1.10	1.20 1.14	483
## 1008	0.97	1.08	1.12	1.20 1.20	493
## 1009	0.90	1.08	1.12	1.30 1.08	470
## 1010	0.05	0.09	0.40	1.00 0.23	467
## 1011	0.05	0.09	0.30	1.50 0.50	481
## 1012	0.05	0.08	0.30	1.00 0.10	489
## 1013	0.05	0.08	0.25	0.51 0.05	483
## 1014	0.05	0.08	0.25	0.60 0.03	464
## 1015	0.05	0.08	0.20	0.50 0.01	468
## 1016	0.05	0.08	0.15	0.50 0.01	457
## 1017	0.05	0.07	0.15	0.55 0.01	465
## 1018	0.05	0.07	0.12	0.55 0.01	452
## 1019	0.04	0.06	0.10	0.55 0.01	437
## 1020	0.03	0.05	0.10	0.55 0.01	421
## 1021	0.01	0.03	0.10	0.55 0.01	396
## 1022	0.02	0.04	0.08	0.70 0.01	430
## 1023	0.02	0.04	0.07	0.55 0.01	438
## 1024	0.03	0.04	0.06	0.50 0.01	444
## 1025	0.02	0.04	0.05	0.50 0.01	453
## 1026	0.03	0.04	0.05	0.50 0.01	457
## 1027	0.02	0.04	0.05	0.50 0.01	457
## 1028	0.03	0.05	0.06	0.60 0.01	453
## 1029	0.01	0.01	0.02	0.12 0.02	1193
## 1030	0.01	0.05	0.06	0.14 0.06	1152
## 1031	0.01	0.03	0.03	0.09 0.03	1257
## 1032	0.01	0.02	0.02	0.14 0.03	1223
## 1033	0.01	0.02	0.02	0.10 0.03	1231
## 1034	0.00	0.01	0.02	0.08 0.02	1158
## 1035	0.00	0.01	0.01	0.05 0.01	1163
## 1036	0.00	0.01	0.01	0.05 0.01	1158
## 1037	0.01	0.01	0.01	0.12 0.01	1141
## 1038	0.01	0.02	0.03	0.10 0.03	1208

## 1039	0.01	0.02	0.03	0.09 0.03	1145
## 1040	0.01	0.01	0.01	0.07 0.01	1165
## 1041	0.00	0.01	0.01	0.09 0.01	1141
## 1042	0.01	0.02	0.03	0.11 0.04	1180
## 1043	0.01	0.02	0.03	0.11 0.03	1190
## 1044	0.01	0.04	0.05	0.11 0.05	1184
## 1045	0.02	0.04	0.04	0.10 0.05	1172
## 1046	0.02	0.04	0.04	0.11 0.05	1127
## 1047	0.02	0.04	0.05	0.12 0.05	1127
## 1048	0.03	0.05	0.05	0.12 0.06	1142
## 1049	0.02	0.05	0.05	0.12 0.06	1123
## 1050	0.03	0.05	0.06	0.12 0.06	1142
## 1051	0.01	0.04	0.04	0.09 0.04	1085
## 1052	0.01	0.01	0.01	0.12 0.02	1102
## 1053	0.02	0.04	0.04	0.11 0.05	1127
## 1054	0.01	0.02	0.03	0.09 0.04	1130
## 1055	0.01	0.03	0.03	0.09 0.04	1127
## 1056	0.00	0.01	0.01	0.05 0.01	1103
## 1057	0.01	0.01	0.01	0.08 0.02	1117
## 1058	0.02	0.03	0.03	0.11 0.04	1085
## 1059	0.03	0.05	0.05	0.12 0.06	1081
## 1060	0.02	0.04	0.05	0.11 0.06	1069
## 1061	0.03	0.05	0.06	0.13 0.06	1031
## 1062	0.03	0.05	0.05	0.12 0.06	1061
## 1063	0.03	0.05	0.05	0.12 0.06	1104
## 1064	0.04	0.05	0.06	0.13 0.07	1054
## 1065	0.04	0.05	0.05	0.12 0.06	1024
## 1066	0.03	0.05	0.06	0.13 0.07	1067
## 1067	0.04	0.06	0.06	0.12 0.07	1021
## 1068	0.04	0.06	0.06	0.13 0.07	1032
## 1069	0.04	0.06	0.06	0.13 0.08	1034
## 1070	0.04	0.06	0.06	0.12 0.07	1008
## 1071	0.04	0.06	0.06	0.12 0.08	1009
## 1072	0.04	0.06	0.07	0.13 0.08	969
## 1073	0.05	0.07	0.07	0.13 0.09	1000
## 1074	0.05	0.07	0.07	0.14 0.09	986
## 1075	0.05	0.07	0.07	0.13 0.09	1012
## 1076	0.05	0.06	0.07	0.13 0.09	1046
## 1077	0.05	0.06	0.07	0.13 0.09	963
## 1078	0.04	0.06	0.06	0.13 0.08	1024
## 1079	0.04	0.05	0.05	0.12 0.07	992
## 1080	0.04	0.06	0.06	0.12 0.08	1015
## 1081	0.04	0.06	0.07	0.13 0.09	984
## 1082	0.04	0.06	0.07	0.13 0.08	938
## 1083	0.04	0.06	0.07	0.13 0.08	940
## 1084	0.05	0.07	0.07	0.14 0.10	970
## 1085	0.05	0.07	0.08	0.14 0.11	1003
## 1086	0.06	0.07	0.08	0.16 0.11	952
## 1087	0.05	0.08	0.09	0.10 0.09	85
## 1088	0.05	0.08	0.10	0.11 0.09	161
## 1089	0.04	0.08	0.10	0.11 0.09	155
## 1090	0.03	0.08	0.09	0.11 0.09	153
## 1091	0.05	0.08	0.09	0.11 0.09	148
## 1092	0.04	0.08	0.09	0.11 0.09	133

## 1093	0.04	0.08	0.10	0.12 0.09	144
## 1094	0.05	0.08	0.10	0.11 0.09	141
## 1095	0.05	0.09	0.11	0.12 0.09	150
## 1096	0.05	0.09	0.10	0.11 0.10	152
## 1097	0.05	0.09	0.10	0.11 0.09	134
## 1098	0.05	0.09	0.10	0.11 0.09	140
## 1099	0.05	0.09	0.10	0.11 0.09	145
## 1100	0.05	0.09	0.10	0.11 0.09	155
## 1101	0.05	0.09	0.10	0.12 0.09	152
## 1102	0.05	0.09	0.10	0.11 0.09	138
## 1103	0.05	0.09	0.10	0.15 0.09	146
## 1104	0.05	0.09	0.10	0.11 0.09	151
## 1105	0.05	0.09	0.10	0.11 0.09	143
## 1106	0.06	0.09	0.10	0.12 0.09	149
## 1107	0.07	0.08	0.10	0.11 0.09	137
## 1108	0.05	0.09	0.10	0.11 0.09	147
## 1109	0.05	0.09	0.10	0.11 0.09	150
## 1110	0.05	0.09	0.10	0.12 0.09	157
## 1111	0.05	0.09	0.10	0.11 0.09	160
## 1112	0.05	0.09	0.10	0.11 0.09	150
## 1113	0.05	0.09	0.10	0.15 0.09	141
## 1114	0.05	0.09	0.10	0.12 0.09	149
## 1115	0.05	0.09	0.10	0.12 0.09	145
## 1116	0.05	0.09	0.10	0.11 0.09	151
## 1117	0.05	0.09	0.10	0.11 0.09	146
## 1118	0.05	0.09	0.10	0.11 0.09	154
## 1119	0.05	0.09	0.10	0.11 0.09	155
## 1120	0.05	0.09	0.10	0.11 0.08	166
## 1121	0.06	0.08	0.09	0.20 0.08	186
## 1122	0.06	0.08	0.09	0.11 0.08	175
## 1123	0.05	0.08	0.09	0.11 0.08	175
## 1124	0.06	0.08	0.09	0.11 0.08	183
## 1125	0.05	0.08	0.09	0.11 0.08	179
## 1126	0.07	0.08	0.09	0.11 0.08	193
## 1127	0.07	0.08	0.09	0.11 0.08	184
## 1128	0.03	0.08	0.09	0.12 0.08	173
## 1129	0.07	0.08	0.09	0.11 0.08	154
## 1130	0.07	0.08	0.09	0.11 0.08	163
## 1131	0.06	0.08	0.09	0.11 0.08	171
## 1132	0.07	0.08	0.09	0.11 0.08	149
## 1133	0.08	0.08	0.09	0.11 0.08	160
## 1134	0.07	0.08	0.09	0.11 0.08	152
## 1135	0.07	0.08	0.09	0.11 0.08	165
## 1136	0.06	0.08	0.10	0.11 0.08	149
## 1137	0.07	0.08	0.09	0.11 0.08	156
## 1138	0.07	0.09	0.09	0.11 0.09	148
## 1139	0.06	0.08	0.09	0.11 0.08	158
## 1140	0.06	0.08	0.09	0.11 0.08	168
## 1141	0.07	0.08	0.09	0.11 0.09	164
## 1142	0.07	0.08	0.09	0.11 0.08	179
## 1143	0.06	0.08	0.09	0.11 0.08	184
## 1144	0.05	0.08	0.09	0.11 0.08	208
## 1145	0.06	0.08	0.09	0.11 0.08	202
## 1146	0.07	0.08	0.09	0.11 0.08	186

## 1147	0.05	0.08	0.09	0.11 0.08	195
## 1148	0.06	0.08	0.09	0.12 0.08	195
## 1149	0.03	0.07	0.09	0.12 0.08	126
## 1150	0.07	0.08	0.09	0.11 0.08	153
## 1151	0.07	0.08	0.09	0.11 0.08	156
## 1152	0.07	0.08	0.09	0.11 0.08	156
## 1153	0.07	0.08	0.09	0.11 0.08	170
## 1154	0.07	0.08	0.09	0.10 0.08	171
## 1155	0.07	0.08	0.09	0.10 0.08	172
## 1156	0.05	0.08	0.09	0.10 0.08	165
## 1157	0.05	0.08	0.09	0.10 0.08	172
## 1158	0.06	0.08	0.09	0.10 0.08	163
## 1159	0.05	0.08	0.09	0.10 0.08	166
## 1160	0.05	0.08	0.09	0.11 0.08	159
## 1161	0.06	0.08	0.09	0.11 0.08	155
## 1162	0.05	0.08	0.09	0.10 0.08	158
## 1163	0.05	0.08	0.09	0.10 0.08	166
## 1164	0.05	0.08	0.09	0.10 0.08	183
## 1165	0.05	0.08	0.09	0.10 0.08	165
## 1166	0.05	0.08	0.09	0.10 0.08	179
## 1167	0.05	0.08	0.09	0.10 0.08	177
## 1168	0.05	0.08	0.09	0.10 0.08	172
## 1169	0.05	0.08	0.09	0.10 0.08	162
## 1170	0.04	0.08	0.09	0.11 0.08	147
## 1171	0.05	0.08	0.09	0.11 0.08	146
## 1172	0.05	0.08	0.09	0.10 0.08	157
## 1173	0.05	0.08	0.09	0.10 0.08	168
## 1174	0.05	0.08	0.09	0.10 0.08	164
## 1175	0.05	0.08	0.09	0.10 0.08	159
## 1176	0.05	0.08	0.09	0.11 0.08	152
## 1177	0.05	0.08	0.09	0.10 0.08	157
## 1178	0.06	0.08	0.09	0.10 0.09	165
## 1179	0.05	0.08	0.09	0.10 0.08	149
## 1180	0.05	0.08	0.09	0.10 0.08	157
## 1181	0.05	0.08	0.09	0.10 0.08	163
## 1182	0.05	0.08	0.09	0.10 0.08	183
## 1183	0.05	0.08	0.09	0.10 0.08	182
## 1184	0.05	0.08	0.09	0.11 0.08	196
## 1185	0.05	0.08	0.09	0.10 0.08	201
## 1186	0.05	0.08	0.09	0.10 0.08	202
## 1187	0.05	0.08	0.09	0.10 0.08	208
## 1188	0.05	0.08	0.09	0.10 0.08	190
## 1189	0.01	0.08	0.09	0.11 0.08	157
## 1190	0.05	0.08	0.09	0.10 0.08	168
## 1191	0.05	0.08	0.09	0.10 0.08	167
## 1192	0.05	0.08	0.09	0.11 0.08	170
## 1193	0.05	0.08	0.09	0.10 0.08	152
## 1194	0.05	0.08	0.09	0.10 0.08	154
## 1195	0.05	0.08	0.09	0.10 0.08	158
## 1196	0.05	0.08	0.09	0.10 0.08	172
## 1197	0.05	0.08	0.09	0.10 0.08	163
## 1198	0.05	0.08	0.09	0.10 0.08	155
## 1199	0.06	0.08	0.09	0.11 0.08	143
## 1200	0.06	0.08	0.09	0.10 0.08	142

## 1201	0.06	0.08	0.09	0.10 0.08	146
## 1202	0.05	0.08	0.09	0.10 0.08	153
## 1203	0.06	0.08	0.09	0.12 0.08	145
## 1204	0.06	0.08	0.09	0.11 0.08	164
## 1205	0.06	0.08	0.09	0.11 0.08	158
## 1206	0.05	0.08	0.09	0.10 0.08	157
## 1207	0.05	0.08	0.09	0.10 0.08	149
## 1208	0.05	0.08	0.09	0.10 0.08	161
## 1209	0.05	0.08	0.09	0.12 0.08	154
## 1210	0.06	0.08	0.09	0.10 0.08	155
## 1211	0.04	0.08	0.10	0.12 0.08	76
## 1212	0.03	0.08	0.09	0.10 0.09	131
## 1213	0.05	0.08	0.09	0.10 0.08	140
## 1214	0.05	0.08	0.09	0.10 0.08	139
## 1215	0.05	0.08	0.09	0.11 0.08	142
## 1216	0.04	0.08	0.09	0.11 0.08	154
## 1217	0.05	0.08	0.09	0.11 0.08	145
## 1218	0.04	0.08	0.09	0.11 0.08	143
## 1219	0.05	0.08	0.09	0.12 0.08	167
## 1220	0.05	0.08	0.09	0.11 0.08	150
## 1221	0.05	0.08	0.09	0.11 0.08	154
## 1222	0.05	0.08	0.09	0.12 0.08	162
## 1223	0.05	0.08	0.09	0.12 0.08	188
## 1224	0.05	0.08	0.09	0.12 0.08	204
## 1225	0.05	0.08	0.09	0.11 0.08	193
## 1226	0.05	0.08	0.09	0.11 0.08	217
## 1227	0.05	0.08	0.08	0.10 0.08	213
## 1228	0.04	0.07	0.08	0.11 0.07	210
## 1229	0.05	0.07	0.08	0.11 0.07	195
## 1230	0.03	0.07	0.08	0.11 0.07	186
## 1231	0.05	0.07	0.08	0.11 0.07	171
## 1232	0.05	0.08	0.08	0.11 0.08	183
## 1233	0.05	0.08	0.08	0.11 0.08	186
## 1234	0.05	0.08	0.08	0.11 0.08	194
## 1235	0.05	0.07	0.08	0.10 0.07	206
## 1236	0.05	0.07	0.08	0.10 0.07	205
## 1237	0.05	0.07	0.08	0.10 0.07	211
## 1238	0.05	0.07	0.08	0.10 0.07	200
## 1239	0.05	0.07	0.08	0.10 0.07	206
## 1240	0.05	0.07	0.08	0.11 0.07	200
## 1241	0.05	0.07	0.08	0.11 0.07	201
## 1242	0.05	0.07	0.08	0.10 0.07	199
## 1243	0.05	0.07	0.08	0.10 0.07	215
## 1244	0.05	0.07	0.08	0.10 0.07	204
## 1245	0.05	0.07	0.08	0.10 0.07	206
## 1246	0.05	0.07	0.08	0.10 0.07	212
## 1247	0.05	0.07	0.08	0.11 0.07	212
## 1248	0.05	0.07	0.08	0.10 0.07	243
## 1249	0.03	0.07	0.08	0.10 0.07	208
## 1250	0.05	0.07	0.08	0.10 0.07	194
## 1251	0.05	0.07	0.08	0.10 0.07	204
## 1252	0.05	0.07	0.08	0.10 0.07	215
## 1253	0.05	0.07	0.08	0.10 0.07	224
## 1254	0.05	0.07	0.08	0.10 0.07	210

## 1255	0.05	0.07	0.08	0.10 0.07	213
## 1256	0.05	0.07	0.08	0.10 0.07	219
## 1257	0.05	0.07	0.08	0.10 0.07	228
## 1258	0.04	0.07	0.08	0.10 0.07	216
## 1259	0.05	0.07	0.08	0.10 0.07	217
## 1260	0.05	0.07	0.08	0.10 0.07	213
## 1261	0.05	0.07	0.08	0.10 0.07	220
## 1262	0.05	0.07	0.08	0.10 0.07	222
## 1263	0.05	0.07	0.08	0.10 0.07	239
## 1264	0.05	0.07	0.08	0.10 0.07	226
## 1265	0.05	0.07	0.08	0.13 0.07	241
## 1266	0.05	0.07	0.08	0.10 0.07	247
## 1267	0.05	0.07	0.08	0.10 0.07	248
## 1268	0.05	0.07	0.08	0.10 0.07	270
## 1269	0.05	0.07	0.08	0.10 0.07	252
## 1270	0.05	0.07	0.08	0.10 0.07	252
## 1271	0.05	0.06	0.08	0.10 0.07	246
## 1272	0.02	0.05	0.07	0.10 0.05	148
## 1273	0.05	0.06	0.08	0.10 0.07	95
## 1274	0.01	0.01	0.01	0.15 0.01	368
## 1275	0.01	0.01	0.01	0.15 0.01	378
## 1276	0.01	0.01	0.01	0.15 0.01	366
## 1277	0.00	0.01	0.01	0.15 0.01	370
## 1278	0.00	0.01	0.01	0.15 0.01	366
## 1279	0.00	0.01	0.01	0.15 0.01	377
## 1280	0.00	0.01	0.01	0.15 0.01	379
## 1281	0.00	0.01	0.01	0.15 0.01	376
## 1282	0.00	0.01	0.01	0.15 0.01	384
## 1283	0.00	0.01	0.01	0.15 0.01	387
## 1284	0.00	0.01	0.01	0.15 0.01	380
## 1285	0.00	0.01	0.01	0.15 0.01	375
## 1286	0.00	0.01	0.01	0.15 0.01	371
## 1287	0.00	0.01	0.01	0.15 0.01	380
## 1288	0.00	0.01	0.01	0.15 0.01	380
## 1289	0.00	0.01	0.01	0.15 0.01	369
## 1290	0.00	0.01	0.01	0.15 0.01	376
## 1291	0.00	0.01	0.01	0.15 0.01	375
## 1292	0.00	0.01	0.01	0.15 0.01	373
## 1293	0.00	0.01	0.01	0.15 0.01	377
## 1294	0.00	0.01	0.01	0.15 0.01	376
## 1295	0.00	0.01	0.01	0.15 0.01	371
## 1296	0.00	0.01	0.01	0.15 0.01	363
## 1297	0.00	0.01	0.01	0.15 0.01	368
## 1298	0.00	0.01	0.01	0.15 0.01	374
## 1299	0.00	0.01	0.01	0.15 0.01	374
## 1300	0.00	0.01	0.01	0.15 0.01	383
## 1301	0.00	0.01	0.01	0.15 0.01	378
## 1302	0.00	0.01	0.01	0.15 0.01	372
## 1303	0.00	0.01	0.01	0.15 0.01	370
## 1304	0.00	0.01	0.01	0.15 0.01	363
## 1305	0.00	0.01	0.01	0.15 0.01	371
## 1306	0.00	0.01	0.01	0.15 0.01	368
## 1307	0.00	0.01	0.01	0.15 0.01	372
## 1308	0.00	0.01	0.01	0.15 0.01	370



## 1309	0.00	0.01	0.01	0.15 0.01	372
## 1310	0.00	0.01	0.01	0.15 0.01	376
## 1311	0.00	0.01	0.01	0.15 0.01	372
## 1312	0.00	0.01	0.01	0.15 0.01	376
## 1313	0.00	0.01	0.01	0.15 0.01	378
## 1314	0.00	0.01	0.01	0.15 0.01	404
## 1315	0.00	0.01	0.01	0.15 0.01	408
## 1316	0.00	0.01	0.01	0.15 0.01	391
## 1317	0.00	0.01	0.01	0.15 0.01	381
## 1318	0.00	0.01	0.01	0.15 0.01	387
## 1319	0.00	0.01	0.01	0.15 0.01	381
## 1320	0.00	0.01	0.01	0.15 0.01	374
## 1321	0.00	0.01	0.01	0.15 0.01	386
## 1322	0.00	0.01	0.01	0.15 0.01	370
## 1323	0.00	0.01	0.01	0.15 0.01	367
## 1324	0.00	0.01	0.01	0.15 0.01	381
## 1325	0.00	0.01	0.01	0.15 0.01	375
## 1326	0.02	0.05	0.06	0.15 0.05	393
## 1327	0.02	0.05	0.06	0.15 0.05	370
## 1328	0.02	0.05	0.06	0.15 0.05	366
## 1329	0.02	0.05	0.05	0.15 0.05	358
## 1330	0.02	0.05	0.05	0.15 0.05	348
## 1331	0.03	0.05	0.05	0.15 0.05	353
## 1332	0.02	0.05	0.05	0.15 0.05	346
## 1333	0.02	0.05	0.05	0.15 0.05	342
## 1334	0.01	0.05	0.05	0.15 0.05	341
## 1335	0.01	0.05	0.05	0.15 0.05	325
## 1336	0.02	0.05	0.05	0.15 0.05	347
## 1337	0.02	0.05	0.05	0.15 0.05	352
## 1338	0.02	0.05	0.05	0.15 0.05	360
## 1339	0.03	0.05	0.05	0.15 0.05	360
## 1340	0.02	0.05	0.05	0.15 0.05	364
## 1341	0.02	0.05	0.05	0.15 0.05	360
## 1342	0.02	0.05	0.05	0.15 0.05	359
## 1343	0.02	0.05	0.05	0.15 0.05	361
## 1344	0.02	0.05	0.05	0.15 0.05	361
## 1345	0.02	0.05	0.05	0.15 0.05	378
## 1346	0.02	0.05	0.05	0.15 0.05	364
## 1347	0.02	0.05	0.05	0.15 0.05	369
## 1348	0.01	0.05	0.05	0.15 0.05	373
## 1349	0.01	0.05	0.05	0.15 0.05	383
## 1350	0.02	0.05	0.05	0.15 0.05	371
## 1351	0.01	0.05	0.05	0.15 0.05	370
## 1352	0.01	0.05	0.05	0.15 0.05	364
## 1353	0.01	0.05	0.05	0.15 0.05	365
## 1354	0.02	0.05	0.05	0.15 0.05	370
## 1355	0.02	0.05	0.05	0.15 0.05	377
## 1356	0.02	0.05	0.05	0.15 0.05	368
## 1357	0.02	0.05	0.05	0.15 0.05	398
## 1358	0.03	0.05	0.05	0.15 0.05	382
## 1359	0.03	0.05	0.05	0.15 0.05	385
## 1360	0.00	0.00	0.00	0.00 0.05	381
## 1361	0.01	0.05	0.05	0.15 0.05	367
## 1362	0.01	0.05	0.05	0.15 0.05	365

## 1363	0.02	0.05	0.05	0.15 0.05	363
## 1364	0.02	0.05	0.05	0.15 0.05	371
## 1365	0.02	0.05	0.05	0.15 0.05	380
## 1366	0.02	0.05	0.05	0.15 0.05	385
## 1367	0.02	0.05	0.05	0.15 0.05	377
## 1368	0.02	0.05	0.05	0.15 0.05	380
## 1369	0.02	0.05	0.05	0.15 0.05	375
## 1370	0.01	0.05	0.05	0.15 0.05	384
## 1371	0.01	0.05	0.05	0.15 0.05	375
## 1372	0.01	0.05	0.05	0.15 0.05	373
## 1373	0.02	0.05	0.05	0.15 0.05	391
## 1374	0.01	0.05	0.05	0.15 0.05	376
## 1375	0.02	0.05	0.05	0.15 0.05	377
## 1376	0.02	0.05	0.05	0.15 0.05	383
## 1377	0.02	0.05	0.05	0.15 0.05	366
## 1378	0.02	0.05	0.05	0.15 0.05	397
## 1379	0.02	0.05	0.05	0.15 0.05	391
## 1380	0.01	0.05	0.05	0.15 0.05	397
## 1381	0.01	0.05	0.05	0.15 0.05	386
## 1382	0.02	0.05	0.05	0.15 0.05	396
## 1383	0.02	0.05	0.05	0.15 0.05	377
## 1384	0.01	0.05	0.05	0.15 0.05	394
## 1385	0.01	0.05	0.05	0.15 0.05	396
## 1386	0.01	0.05	0.05	0.15 0.05	382
## 1387	0.02	0.05	0.05	0.15 0.05	380
## 1388	0.02	0.05	0.05	0.15 0.05	405
## 1389	0.01	0.05	0.05	0.15 0.05	387
## 1390	0.01	0.05	0.05	0.15 0.05	371
## 1391	0.01	0.05	0.05	0.15 0.05	385
## 1392	0.01	0.05	0.05	0.15 0.05	377
## 1393	0.01	0.05	0.05	0.15 0.05	375
## 1394	0.01	0.05	0.05	0.15 0.05	370
## 1395	0.02	0.05	0.05	0.15 0.05	377
## 1396	0.03	0.05	0.05	0.15 0.05	377
## 1397	0.02	0.05	0.05	0.15 0.05	378
## 1398	0.01	0.05	0.05	0.15 0.05	364
## 1399	0.01	0.05	0.05	0.15 0.05	353
## 1400	0.01	0.05	0.05	0.15 0.05	371
## 1401	0.02	0.05	0.05	0.15 0.05	368
## 1402	0.02	0.05	0.05	0.15 0.05	369
## 1403	0.02	0.05	0.05	0.15 0.05	364
## 1404	0.01	0.05	0.05	0.15 0.05	372
## 1405	0.02	0.05	0.05	0.15 0.05	375
## 1406	0.02	0.05	0.05	0.15 0.05	369
## 1407	0.02	0.05	0.05	0.15 0.05	372
## 1408	0.02	0.05	0.05	0.15 0.05	370
## 1409	0.01	0.05	0.05	0.15 0.05	374
## 1410	0.01	0.05	0.05	0.15 0.05	377
## 1411	0.01	0.05	0.05	0.15 0.05	368
## 1412	0.01	0.05	0.05	0.15 0.05	360
## 1413	0.01	0.05	0.05	0.15 0.05	360
## 1414	0.01	0.05	0.05	0.15 0.05	357
## 1415	0.01	0.05	0.05	0.15 0.05	353
## 1416	0.01	0.05	0.05	0.15 0.05	356

## 1417	0.01	0.05	0.05	0.15 0.05	356
## 1418	0.01	0.05	0.05	0.15 0.05	345
## 1419	0.01	0.05	0.05	0.15 0.05	336
## 1420	0.01	0.05	0.05	0.15 0.05	353
## 1421	0.01	0.05	0.05	0.15 0.05	364
## 1422	0.01	0.05	0.05	0.15 0.05	359
## 1423	0.01	0.05	0.05	0.15 0.05	353
## 1424	0.01	0.05	0.05	0.15 0.05	354
## 1425	0.01	0.05	0.05	0.15 0.05	357
## 1426	0.01	0.05	0.05	0.15 0.05	352
## 1427	0.01	0.05	0.05	0.15 0.05	343
## 1428	0.01	0.05	0.05	0.15 0.05	343
## 1429	0.01	0.05	0.05	0.15 0.05	349
## 1430	0.01	0.05	0.05	0.15 0.05	346
## 1431	0.01	0.05	0.05	0.15 0.05	347
## 1432	0.01	0.05	0.05	0.15 0.05	358
## 1433	0.01	0.05	0.05	0.15 0.05	350
## 1434	0.01	0.05	0.05	0.15 0.05	357
## 1435	0.01	0.05	0.05	0.15 0.05	350
## 1436	0.01	0.05	0.05	0.15 0.05	339
## 1437	0.01	0.05	0.05	0.15 0.05	334
## 1438	0.01	0.05	0.05	0.15 0.05	350
## 1439	0.01	0.05	0.05	0.15 0.05	362
## 1440	0.01	0.05	0.05	0.15 0.05	374
## 1441	0.01	0.05	0.05	0.15 0.05	362
## 1442	0.01	0.05	0.05	0.15 0.05	361
## 1443	0.01	0.05	0.05	0.15 0.05	355
## 1444	0.01	0.05	0.05	0.15 0.05	349
## 1445	0.01	0.05	0.05	0.15 0.05	353
## 1446	0.01	0.05	0.05	0.15 0.05	351
## 1447	0.01	0.05	0.05	0.15 0.05	352
## 1448	0.01	0.05	0.05	0.15 0.05	359
## 1449	0.01	0.05	0.05	0.15 0.05	356
## 1450	0.01	0.05	0.05	0.15 0.05	355
## 1451	0.01	0.05	0.05	0.15 0.05	348
## 1452	0.01	0.05	0.05	0.15 0.05	338
## 1453	0.01	0.05	0.05	0.15 0.05	337
## 1454	0.01	0.05	0.05	0.15 0.05	345
## 1455	0.01	0.05	0.05	0.15 0.05	347
## 1456	0.01	0.05	0.05	0.15 0.05	344
## 1457	-0.02	0.02	0.05	0.15 0.08	69
## 1458	-0.01	0.03	0.05	0.15 0.08	75
## 1459	-0.02	0.02	0.05	0.15 0.08	72
## 1460	-0.02	0.02	0.05	0.15 0.08	71
## 1461	-0.01	0.03	0.05	0.15 0.08	77
## 1462	-0.01	0.04	0.06	0.15 0.07	49
## 1463	0.00	0.05	0.06	0.15 0.08	74
## 1464	0.00	0.04	0.06	0.15 0.08	74
## 1465	0.00	0.04	0.06	0.15 0.08	74
## 1466	0.00	0.04	0.05	0.15 0.08	73
## 1467	-0.01	0.03	0.05	0.15 0.08	71
## 1468	-0.01	0.03	0.05	0.15 0.08	71
## 1469	-0.01	0.03	0.05	0.15 0.08	71
## 1470	-0.01	0.02	0.05	0.15 0.08	70

## 1471	-0.02	0.02	0.05	0.15 0.08	71
## 1472	-0.01	0.03	0.05	0.15 0.08	72
## 1473	-0.01	0.02	0.05	0.15 0.08	71
## 1474	-0.02	0.02	0.05	0.15 0.08	73
## 1475	-0.02	0.01	0.05	0.15 0.08	75
## 1476	-0.03	0.01	0.05	0.15 0.08	76
## 1477	-0.03	0.01	0.05	0.15 0.08	75
## 1478	-0.02	0.02	0.05	0.15 0.08	78
## 1479	-0.02	0.02	0.05	0.15 0.08	78
## 1480	-0.02	0.01	0.05	0.15 0.08	80
## 1481	-0.01	0.02	0.05	0.12 0.08	82
## 1482	0.00	0.03	0.05	0.15 0.08	78
## 1483	0.00	0.03	0.05	0.15 0.08	75
## 1484	0.00	0.03	0.05	0.15 0.08	72
## 1485	0.00	0.03	0.05	0.15 0.08	72
## 1486	-0.01	0.02	0.05	0.15 0.08	69
## 1487	-0.02	0.01	0.05	0.15 0.08	72
## 1488	-0.02	0.01	0.05	0.15 0.08	70
## 1489	-0.02	0.01	0.05	0.15 0.08	70
## 1490	-0.01	0.02	0.05	0.15 0.08	71
## 1491	-0.01	0.02	0.05	0.15 0.08	67
## 1492	0.00	0.03	0.05	0.15 0.08	63
## 1493	-0.01	0.03	0.05	0.15 0.08	65
## 1494	0.00	0.03	0.05	0.15 0.08	70
## 1495	-0.01	0.03	0.05	0.15 0.08	73
## 1496	-0.01	0.03	0.05	0.15 0.08	71
## 1497	-0.01	0.03	0.05	0.15 0.08	72
## 1498	-0.01	0.03	0.05	0.15 0.08	72
## 1499	0.00	0.04	0.06	0.15 0.08	64
## 1500	0.01	0.05	0.07	0.13 0.08	69
## 1501	0.01	0.05	0.06	0.12 0.08	65
## 1502	0.01	0.05	0.06	0.13 0.08	64
## 1503	0.01	0.05	0.06	0.15 0.08	70
## 1504	0.01	0.05	0.06	0.15 0.08	68
## 1505	0.01	0.05	0.06	0.15 0.08	72
## 1506	0.01	0.05	0.06	0.15 0.08	71
## 1507	0.01	0.05	0.06	0.15 0.08	69
## 1508	0.00	0.03	0.05	0.15 0.08	71
## 1509	0.00	0.03	0.05	0.15 0.08	72
## 1510	0.00	0.02	0.05	0.15 0.08	73
## 1511	0.00	0.03	0.05	0.15 0.08	72
## 1512	0.00	0.03	0.05	0.12 0.08	76
## 1513	0.23	0.27	0.30	0.37 0.08	74
## 1514	0.23	0.26	0.30	0.45 0.33	73
## 1515	0.22	0.26	0.30	0.45 0.33	72
## 1516	0.21	0.25	0.30	0.45 0.33	76
## 1517	0.15	0.24	0.30	0.45 0.33	76
## 1518	0.20	0.24	0.30	0.45 0.33	74
## 1519	0.20	0.25	0.30	0.45 0.33	74
## 1520	0.20	0.25	0.30	0.45 0.33	78
## 1521	0.20	0.25	0.30	0.45 0.33	77
## 1522	0.20	0.24	0.30	0.45 0.33	83
## 1523	0.20	0.26	0.30	0.45 0.33	80
## 1524	0.21	0.27	0.30	0.45 0.33	57

## 1525	0.22	0.27	0.30	0.45 0.33	78
## 1526	0.22	0.27	0.30	0.45 0.33	78
## 1527	0.22	0.27	0.30	0.45 0.33	79
## 1528	0.21	0.27	0.30	0.45 0.33	77
## 1529	0.21	0.27	0.30	0.45 0.33	78
## 1530	0.21	0.27	0.30	0.45 0.33	77
## 1531	0.21	0.27	0.30	0.45 0.33	80
## 1532	0.21	0.27	0.30	0.45 0.33	80
## 1533	0.21	0.27	0.30	0.45 0.33	77
## 1534	0.23	0.32	0.34	0.36 0.33	71
## 1535	0.30	0.32	0.33	0.37 0.30	338
## 1536	0.28	0.32	0.33	0.38 0.30	327
## 1537	0.29	0.32	0.33	0.37 0.30	330
## 1538	0.28	0.32	0.33	0.37 0.30	328
## 1539	0.27	0.32	0.33	0.39 0.30	322
## 1540	0.28	0.32	0.33	0.39 0.30	327
## 1541	0.26	0.32	0.33	0.36 0.30	326
## 1542	0.29	0.32	0.33	0.40 0.30	330
## 1543	0.29	0.32	0.33	0.40 0.30	327
## 1544	0.29	0.31	0.33	0.42 0.30	333
## 1545	0.30	0.32	0.33	0.40 0.30	345
## 1546	0.30	0.32	0.33	0.39 0.30	343
## 1547	0.29	0.32	0.33	0.39 0.30	344
## 1548	0.78	0.82	0.83	0.88 0.80	336
## 1549	0.78	0.82	0.83	0.88 0.80	339
## 1550	0.78	0.82	0.83	0.85 0.80	343
## 1551	0.78	0.82	0.83	0.85 0.80	338
## 1552	0.78	0.82	0.83	0.88 0.80	344
## 1553	0.78	0.82	0.83	0.88 0.80	345
## 1554	0.78	0.82	0.83	0.87 0.80	341
## 1555	0.78	0.82	0.83	0.87 0.80	356
## 1556	0.78	0.81	0.83	0.88 0.80	352
## 1557	0.77	0.81	0.83	0.88 0.80	341
## 1558	0.78	0.81	0.83	0.88 0.80	344
## 1559	0.78	0.81	0.83	0.87 0.79	346
## 1560	0.78	0.81	0.83	0.88 0.79	346
## 1561	0.78	0.81	0.83	0.90 0.79	350
## 1562	0.78	0.81	0.83	0.89 0.79	346
## 1563	0.78	0.81	0.83	0.89 0.79	351
## 1564	0.78	0.81	0.83	0.88 0.79	344
## 1565	0.78	0.81	0.83	0.88 0.79	351
## 1566	0.79	0.81	0.83	0.86 0.80	355
## 1567	0.79	0.81	0.83	0.86 0.79	355
## 1568	0.78	0.81	0.83	0.85 0.79	354
## 1569	0.78	0.81	0.83	0.87 0.78	348
## 1570	0.78	0.81	0.83	0.86 0.79	349
## 1571	0.78	0.81	0.83	0.88 0.78	354
## 1572	0.78	0.81	0.83	0.87 0.77	360
## 1573	0.78	0.81	0.83	0.86 0.77	358
## 1574	0.78	0.81	0.83	0.88 0.76	352
## 1575	0.78	0.81	0.83	0.90 0.73	350
## 1576	0.78	0.81	0.83	0.90 0.73	347
## 1577	1.30	1.56	1.58	1.65 1.46	353
## 1578	1.53	1.56	1.58	1.66 1.46	352

## 1579	1.53	1.56	1.58	1.70 1.46	362
## 1580	1.53	1.56	1.58	1.70 1.46	359
## 1581	1.54	1.56	1.58	1.68 1.45	358
## 1582	1.54	1.56	1.58	1.64 1.46	352
## 1583	1.54	1.56	1.58	1.65 1.49	345
## 1584	1.54	1.56	1.58	1.70 1.51	338
## 1585	1.53	1.56	1.58	1.70 1.51	332
## 1586	1.50	1.56	1.58	1.70 1.48	330
## 1587	1.52	1.56	1.58	1.66 1.50	338
## 1588	1.53	1.56	1.58	1.68 1.50	349
## 1589	1.53	1.56	1.58	1.65 1.51	349
## 1590	1.52	1.56	1.58	1.65 1.51	355
## 1591	1.54	1.56	1.58	1.65 1.51	345
## 1592	1.53	1.56	1.58	1.62 1.51	353
## 1593	1.53	1.56	1.58	1.68 1.51	359
## 1594	1.52	1.56	1.58	1.65 1.51	358
## 1595	1.51	1.56	1.58	1.69 1.51	362
## 1596	1.52	1.56	1.58	1.70 1.51	359
## 1597	1.52	1.56	1.58	1.70 1.51	358
## 1598	1.53	1.56	1.58	1.70 1.51	360
## 1599	1.53	1.56	1.58	1.70 1.51	361
## 1600	1.51	1.56	1.58	1.70 1.50	371
## 1601	1.54	1.56	1.58	1.70 1.50	364
## 1602	1.53	1.56	1.58	1.70 1.50	367
## 1603	1.53	1.56	1.58	1.70 1.50	369
## 1604	1.53	1.56	1.58	1.70 1.51	368
## 1605	2.20	2.31	2.33	2.45 2.25	372
## 1606	2.26	2.31	2.32	2.45 2.25	365
## 1607	2.26	2.31	2.33	2.45 2.25	378
## 1608	2.26	2.31	2.33	2.45 2.26	381
## 1609	2.26	2.31	2.33	2.45 2.27	373
## 1610	2.26	2.31	2.33	2.43 2.27	384
## 1611	2.26	2.31	2.33	2.43 2.26	380
## 1612	2.26	2.31	2.33	2.40 2.26	380
## 1613	2.26	2.31	2.33	2.40 2.26	377
## 1614	2.26	2.31	2.33	2.40 2.26	377
## 1615	2.26	2.31	2.33	2.40 2.26	380
## 1616	2.26	2.31	2.33	2.37 2.26	380
## 1617	2.26	2.31	2.33	2.40 2.26	388
## 1618	2.26	2.31	2.33	2.40 2.26	387
## 1619	2.26	2.31	2.33	2.40 2.26	388
## 1620	2.28	2.31	2.33	2.40 2.26	385
## 1621	2.29	2.31	2.33	2.43 2.26	383
## 1622	2.28	2.31	2.33	2.45 2.26	384
## 1623	2.28	2.31	2.33	2.45 2.26	383
## 1624	2.28	2.31	2.33	2.45 2.26	375
## 1625	2.26	2.31	2.33	2.43 2.26	385
## 1626	2.28	2.31	2.33	2.45 2.26	385
## 1627	2.28	2.31	2.33	2.45 2.26	383
## 1628	2.28	2.31	2.33	2.45 2.26	377
## 1629	2.27	2.30	2.33	2.45 2.26	381
## 1630	2.28	2.31	2.33	2.45 2.26	384
## 1631	2.28	2.31	2.33	2.45 2.26	378
## 1632	2.28	2.31	2.33	2.45 2.26	390

## 1633	2.28	2.31	2.33	2.43 2.26	375
## 1634	2.28	2.30	2.33	2.43 2.26	382
## 1635	2.28	2.31	2.33	2.40 2.26	386
## 1636	2.28	2.30	2.33	2.40 2.26	380
## 1637	2.28	2.30	2.33	2.40 2.26	388
## 1638	2.28	2.30	2.33	2.41 2.26	375
## 1639	2.25	2.30	2.33	2.45 2.26	383
## 1640	2.28	2.30	2.33	2.45 2.26	376
## 1641	2.28	2.30	2.33	2.45 2.26	373
## 1642	2.28	2.30	2.33	2.45 2.25	374
## 1643	2.28	2.30	2.33	2.45 2.25	374
## 1644	2.98	3.05	3.08	3.20 2.99	369
## 1645	3.02	3.05	3.08	3.23 2.98	358
## 1646	3.02	3.06	3.08	3.20 2.98	361
## 1647	3.02	3.06	3.08	3.20 2.98	352
## 1648	3.03	3.06	3.08	3.23 2.98	338
## 1649	2.97	3.06	3.08	3.20 2.97	332
## 1650	2.95	3.06	3.08	3.20 2.97	314
## 1651	3.02	3.06	3.08	3.20 2.98	340
## 1652	3.00	3.06	3.08	3.20 3.00	358
## 1653	3.02	3.06	3.08	3.20 3.00	366
## 1654	3.02	3.06	3.08	3.20 3.00	375
## 1655	3.02	3.06	3.08	3.20 3.00	371
## 1656	3.02	3.06	3.08	3.20 3.00	377
## 1657	3.03	3.06	3.08	3.20 3.00	371
## 1658	3.00	3.06	3.08	3.20 3.00	378
## 1659	3.02	3.06	3.08	3.17 3.00	370
## 1660	3.02	3.06	3.08	3.20 3.00	373
## 1661	3.02	3.06	3.08	3.20 3.00	375
## 1662	3.02	3.06	3.08	3.20 3.00	375
## 1663	3.03	3.06	3.08	3.23 3.00	380
## 1664	3.03	3.06	3.08	3.23 3.00	372
## 1665	3.02	3.06	3.08	3.23 3.00	376
## 1666	3.02	3.06	3.08	3.25 3.00	379
## 1667	3.02	3.06	3.08	3.25 3.00	381
## 1668	3.02	3.06	3.08	3.25 3.00	387
## 1669	3.00	3.05	3.08	3.27 3.00	384
## 1670	2.99	3.05	3.08	3.28 3.00	386
## 1671	3.02	3.05	3.08	3.28 3.00	395
## 1672	3.02	3.05	3.08	3.30 3.00	391
## 1673	3.73	3.80	3.83	4.00 3.75	393
## 1674	3.74	3.80	3.83	4.00 3.75	397
## 1675	3.75	3.80	3.83	4.00 3.75	393
## 1676	3.75	3.80	3.83	4.00 3.75	388
## 1677	3.00	3.80	3.83	4.00 3.75	390
## 1678	3.75	3.80	3.83	3.95 3.75	395
## 1679	3.77	3.80	3.83	4.00 3.75	405
## 1680	3.76	3.80	3.83	3.95 3.77	407
## 1681	3.76	3.80	3.83	4.00 3.77	408
## 1682	3.75	3.80	3.83	4.00 3.77	401
## 1683	3.76	3.80	3.83	4.00 3.76	400
## 1684	3.76	3.80	3.83	4.00 3.76	395
## 1685	3.76	3.80	3.83	4.00 3.76	393
## 1686	3.77	3.80	3.83	4.00 3.76	375

## 1687	3.76	3.80	3.83	4.00	3.76	388
## 1688	3.76	3.80	3.83	4.02	3.77	393
## 1689	3.76	3.80	3.83	4.02	3.77	398
## 1690	3.75	3.80	3.83	4.02	3.79	395
## 1691	3.75	3.81	3.83	4.00	3.78	417
## 1692	3.75	3.80	3.83	4.00	3.78	416
## 1693	3.74	3.80	3.83	4.00	3.78	400
## 1694	3.77	3.81	3.83	4.02	3.77	399
## 1695	3.77	3.80	3.83	4.02	3.76	394
## 1696	3.77	3.80	3.83	4.00	3.76	392
## 1697	3.76	3.80	3.83	4.00	3.76	398
## 1698	3.72	3.80	3.83	4.02	3.76	392
## 1699	4.20	4.30	4.33	4.50	3.76	391
## 1700	4.24	4.30	4.33	4.50	3.76	397
## 1701	4.20	4.30	4.33	4.50	4.27	400
## 1702	4.24	4.30	4.33	4.50	4.28	391
## 1703	4.23	4.30	4.33	4.50	4.27	393
## 1704	4.23	4.30	4.33	4.50	4.26	385
## 1705	4.25	4.30	4.33	4.52	4.26	376
## 1706	4.24	4.30	4.33	4.52	4.26	376
## 1707	4.26	4.31	4.33	4.50	4.26	352
## 1708	4.26	4.30	4.33	4.55	4.26	361
## 1709	4.26	4.30	4.33	4.55	4.26	362
## 1710	4.17	4.30	4.33	4.53	4.26	366

##	TargetD	TargetU	PercentileT1	PercentileT25	PercentileT75	PercentileT99
## 1	0	0	0.00	0.00	0.00	0.00
## 2	0	0	0.00	0.00	0.00	0.00
## 3	0	0	0.00	0.00	0.00	0.00
## 4	0	0	0.00	0.00	0.00	0.00
## 5	0	0	0.00	0.00	0.00	0.00
## 6	0	0	0.00	0.00	0.00	0.00
## 7	0	0	0.00	0.00	0.00	0.00
## 8	0	0	0.00	0.00	0.00	0.00
## 9	0	0	0.00	0.00	0.00	0.00
## 10	0	0	0.00	0.00	0.00	0.00
## 11	0	0	0.00	0.00	0.00	0.00
## 12	0	0	0.00	0.00	0.00	0.00
## 13	0	0	0.00	0.00	0.00	0.00
## 14	0	0	0.00	0.00	0.00	0.00
## 15	0	0	0.00	0.00	0.00	0.00
## 16	0	0	0.00	0.00	0.00	0.00
## 17	0	0	0.00	0.00	0.00	0.00
## 18	0	0	0.00	0.00	0.00	0.00
## 19	0	0	0.00	0.00	0.00	0.00
## 20	0	0	0.00	0.00	0.00	0.00
## 21	0	0	0.00	0.00	0.00	0.00
## 22	0	0	0.00	0.00	0.00	0.00
## 23	0	0	0.00	0.00	0.00	0.00
## 24	0	0	0.00	0.00	0.00	0.00
## 25	0	0	0.00	0.00	0.00	0.00
## 26	0	0	0.00	0.00	0.00	0.00
## 27	0	0	0.00	0.00	0.00	0.00
## 28	0	0	0.00	0.00	0.00	0.00
## 29	0	0	0.00	0.00	0.00	0.00



## 30	0	0	0.00	0.00	0.00	0.00
## 31	0	0	0.00	0.00	0.00	0.00
## 32	0	0	0.00	0.00	0.00	0.00
## 33	0	0	0.00	0.00	0.00	0.00
## 34	0	0	0.00	0.00	0.00	0.00
## 35	0	0	0.00	0.00	0.00	0.00
## 36	0	0	0.00	0.00	0.00	0.00
## 37	0	0	0.00	0.00	0.00	0.00
## 38	0	0	0.00	0.00	0.00	0.00
## 39	0	0	0.00	0.00	0.00	0.00
## 40	0	0	0.00	0.00	0.00	0.00
## 41	0	0	0.00	0.00	0.00	0.00
## 42	0	0	0.00	0.00	0.00	0.00
## 43	0	0	0.00	0.00	0.00	0.00
## 44	0	0	0.00	0.00	0.00	0.00
## 45	0	0	0.00	0.00	0.00	0.00
## 46	0	0	0.00	0.00	0.00	0.00
## 47	0	0	0.00	0.00	0.00	0.00
## 48	0	0	0.00	0.00	0.00	0.00
## 49	0	0	0.00	0.00	0.00	0.00
## 50	0	0	0.00	0.00	0.00	0.00
## 51	0	0	0.00	0.00	0.00	0.00
## 52	0	0	0.00	0.00	0.00	0.00
## 53	0	0	0.00	0.00	0.00	0.00
## 54	0	0	0.00	0.00	0.00	0.00
## 55	0	0	0.00	0.00	0.00	0.00
## 56	0	0	0.00	0.00	0.00	0.00
## 57	0	0	0.00	0.00	0.00	0.00
## 58	0	0	0.00	0.00	0.00	0.00
## 59	0	0	0.00	0.00	0.00	0.00
## 60	0	0	0.00	0.00	0.00	0.00
## 61	0	0	0.00	0.00	0.00	0.00
## 62	0	0	0.00	0.00	0.00	0.00
## 63	0	0	0.00	0.00	0.00	0.00
## 64	0	0	0.00	0.00	0.00	0.00
## 65	0	0	0.00	0.00	0.00	0.00
## 66	0	0	0.00	0.00	0.00	0.00
## 67	0	0	0.00	0.00	0.00	0.00
## 68	0	0	0.00	0.00	0.00	0.00
## 69	0	0	0.00	0.00	0.00	0.00
## 70	0	0	0.00	0.00	0.00	0.00
## 71	0	0	0.00	0.00	0.00	0.00
## 72	0	0	0.00	0.00	0.00	0.00
## 73	0	0	0.00	0.00	0.00	0.00
## 74	0	0	0.00	0.00	0.00	0.00
## 75	0	0	0.00	0.00	0.00	0.00
## 76	0	0	0.00	0.00	0.00	0.00
## 77	0	0	0.00	0.00	0.00	0.00
## 78	0	0	0.00	0.00	0.00	0.00
## 79	0	0	0.00	0.00	0.00	0.00
## 80	0	0	0.00	0.00	0.00	0.00
## 81	0	0	0.00	0.00	0.00	0.00
## 82	0	0	0.00	0.00	0.00	0.00
## 83	0	0	0.00	0.00	0.00	0.00

## 84	0	0	0.00	0.00	0.00	0.00
## 85	0	0	0.00	0.00	0.00	0.00
## 86	0	0	0.00	0.00	0.00	0.00
## 87	0	0	0.00	0.00	0.00	0.00
## 88	0	0	0.00	0.00	0.00	0.00
## 89	0	0	0.00	0.00	0.00	0.00
## 90	0	0	0.00	0.00	0.00	0.00
## 91	0	0	0.00	0.00	0.00	0.00
## 92	0	0	0.00	0.00	0.00	0.00
## 93	0	0	0.00	0.00	0.00	0.00
## 94	0	0	0.00	0.00	0.00	0.00
## 95	0	0	0.00	0.00	0.00	0.00
## 96	0	0	0.00	0.00	0.00	0.00
## 97	0	0	0.00	0.00	0.00	0.00
## 98	0	0	0.00	0.00	0.00	0.00
## 99	0	0	0.00	0.00	0.00	0.00
## 100	0	0	0.00	0.00	0.00	0.00
## 101	0	0	0.00	0.00	0.00	0.00
## 102	0	0	0.00	0.00	0.00	0.00
## 103	0	0	0.00	0.00	0.00	0.00
## 104	0	0	0.00	0.00	0.00	0.00
## 105	0	0	0.00	0.00	0.00	0.00
## 106	0	0	0.00	0.00	0.00	0.00
## 107	0	0	0.00	0.00	0.00	0.00
## 108	0	0	0.00	0.00	0.00	0.00
## 109	0	0	0.00	0.00	0.00	0.00
## 110	0	0	0.00	0.00	0.00	0.00
## 111	0	0	0.00	0.00	0.00	0.00
## 112	0	0	0.00	0.00	0.00	0.00
## 113	0	0	0.00	0.00	0.00	0.00
## 114	0	0	0.00	0.00	0.00	0.00
## 115	0	0	0.00	0.00	0.00	0.00
## 116	0	0	0.00	0.00	0.00	0.00
## 117	0	0	0.00	0.00	0.00	0.00
## 118	0	0	0.00	0.00	0.00	0.00
## 119	0	0	0.00	0.00	0.00	0.00
## 120	0	0	0.00	0.00	0.00	0.00
## 121	0	0	0.00	0.00	0.00	0.00
## 122	0	0	0.00	0.00	0.00	0.00
## 123	0	0	0.00	0.00	0.00	0.00
## 124	0	0	0.00	0.00	0.00	0.00
## 125	0	0	0.00	0.00	0.00	0.00
## 126	0	0	0.00	0.00	0.00	0.00
## 127	0	0	0.00	0.00	0.00	0.00
## 128	0	0	0.00	0.00	0.00	0.00
## 129	0	0	0.00	0.00	0.00	0.00
## 130	0	0	0.00	0.00	0.00	0.00
## 131	0	0	0.00	0.00	0.00	0.00
## 132	0	0	0.00	0.00	0.00	0.00
## 133	0	0	0.00	0.00	0.00	0.00
## 134	0	0	0.00	0.00	0.00	0.00
## 135	0	0	0.00	0.00	0.00	0.00
## 136	0	0	0.00	0.00	0.00	0.00
## 137	0	0	0.00	0.00	0.00	0.00

## 138	0	0	0.00	0.00	0.00	0.00
## 139	0	0	0.00	0.00	0.00	0.00
## 140	0	0	0.00	0.00	0.00	0.00
## 141	0	0	0.00	0.00	0.00	0.00
## 142	0	0	0.00	0.00	0.00	0.00
## 143	0	0	0.00	0.00	0.00	0.00
## 144	0	0	0.00	0.00	0.00	0.00
## 145	0	0	0.00	0.00	0.00	0.00
## 146	0	0	0.00	0.00	0.00	0.00
## 147	0	0	0.00	0.00	0.00	0.00
## 148	0	0	0.00	0.00	0.00	0.00
## 149	0	0	0.00	0.00	0.00	0.00
## 150	0	0	0.00	0.00	0.00	0.00
## 151	0	0	0.00	0.00	0.00	0.00
## 152	0	0	0.00	0.00	0.00	0.00
## 153	0	0	0.00	0.00	0.00	0.00
## 154	0	0	0.00	0.00	0.00	0.00
## 155	0	0	0.00	0.00	0.00	0.00
## 156	0	0	0.00	0.00	0.00	0.00
## 157	0	0	0.00	0.00	0.00	0.00
## 158	0	0	0.00	0.00	0.00	0.00
## 159	0	0	0.00	0.00	0.00	0.00
## 160	0	0	0.00	0.00	0.00	0.00
## 161	0	0	0.00	0.00	0.00	0.00
## 162	0	0	0.00	0.00	0.00	0.00
## 163	0	0	0.00	0.00	0.00	0.00
## 164	0	0	0.00	0.00	0.00	0.00
## 165	0	0	0.00	0.00	0.00	0.00
## 166	0	0	0.00	0.00	0.00	0.00
## 167	0	0	0.00	0.00	0.00	0.00
## 168	0	0	0.00	0.00	0.00	0.00
## 169	0	0	0.00	0.00	0.00	0.00
## 170	0	0	0.00	0.00	0.00	0.00
## 171	0	0	0.00	0.00	0.00	0.00
## 172	0	0	0.00	0.00	0.00	0.00
## 173	0	0	0.00	0.00	0.00	0.00
## 174	0	0	0.00	0.00	0.00	0.00
## 175	0	0	0.00	0.00	0.00	0.00
## 176	0	0	0.00	0.00	0.00	0.00
## 177	0	0	0.00	0.00	0.00	0.00
## 178	0	0	0.00	0.00	0.00	0.00
## 179	0	0	0.00	0.00	0.00	0.00
## 180	0	0	0.00	0.00	0.00	0.00
## 181	0	0	0.00	0.00	0.00	0.00
## 182	0	0	0.00	0.00	0.00	0.00
## 183	0	0	0.00	0.00	0.00	0.00
## 184	0	0	0.00	0.00	0.00	0.00
## 185	0	0	0.00	0.00	0.00	0.00
## 186	0	0	0.00	0.00	0.00	0.00
## 187	0	0	0.00	0.00	0.00	0.00
## 188	0	0	0.00	0.00	0.00	0.00
## 189	0	0	0.00	0.00	0.00	0.00
## 190	0	0	0.00	0.00	0.00	0.00
## 191	0	0	0.00	0.00	0.00	0.00

## 192	0	0	0.00	0.00	0.00	0.00
## 193	0	0	0.00	0.00	0.00	0.00
## 194	0	0	0.00	0.00	0.00	0.00
## 195	0	0	0.00	0.00	0.00	0.00
## 196	0	0	0.00	0.00	0.00	0.00
## 197	0	0	0.00	0.00	0.00	0.00
## 198	0	0	0.00	0.00	0.00	0.00
## 199	0	0	0.00	0.00	0.00	0.00
## 200	0	0	0.00	0.00	0.00	0.00
## 201	0	0	0.00	0.00	0.00	0.00
## 202	0	0	0.00	0.00	0.00	0.00
## 203	0	0	0.00	0.00	0.00	0.00
## 204	0	0	0.00	0.00	0.00	0.00
## 205	0	0	0.00	0.00	0.00	0.00
## 206	0	0	0.00	0.00	0.00	0.00
## 207	0	0	0.00	0.00	0.00	0.00
## 208	0	0	0.00	0.00	0.00	0.00
## 209	0	0	0.00	0.00	0.00	0.00
## 210	0	0	0.00	0.00	0.00	0.00
## 211	0	0	0.00	0.00	0.00	0.00
## 212	0	0	0.00	0.00	0.00	0.00
## 213	0	0	0.00	0.00	0.00	0.00
## 214	0	0	0.00	0.00	0.00	0.00
## 215	0	0	0.00	0.00	0.00	0.00
## 216	0	0	0.00	0.00	0.00	0.00
## 217	0	0	0.00	0.00	0.00	0.00
## 218	0	0	0.00	0.00	0.00	0.00
## 219	0	0	0.00	0.00	0.00	0.00
## 220	0	0	0.00	0.00	0.00	0.00
## 221	0	0	0.00	0.00	0.00	0.00
## 222	0	0	0.00	0.00	0.00	0.00
## 223	0	0	0.00	0.00	0.00	0.00
## 224	0	0	0.00	0.00	0.00	0.00
## 225	0	0	0.00	0.00	0.00	0.00
## 226	0	0	0.00	0.00	0.00	0.00
## 227	0	0	0.00	0.00	0.00	0.00
## 228	0	0	0.00	0.00	0.00	0.00
## 229	0	0	0.00	0.00	0.00	0.00
## 230	0	0	0.00	0.00	0.00	0.00
## 231	0	0	0.00	0.00	0.00	0.00
## 232	0	0	0.00	0.00	0.00	0.00
## 233	0	0	0.00	0.00	0.00	0.00
## 234	0	0	0.00	0.00	0.00	0.00
## 235	0	0	0.00	0.00	0.00	0.00
## 236	0	0	0.00	0.00	0.00	0.00
## 237	0	0	0.00	0.00	0.00	0.00
## 238	0	0	0.00	0.00	0.00	0.00
## 239	0	0	0.00	0.00	0.00	0.00
## 240	0	0	0.00	0.00	0.00	0.00
## 241	0	0	0.00	0.00	0.00	0.00
## 242	0	0	0.00	0.00	0.00	0.00
## 243	0	0	0.00	0.00	0.00	0.00
## 244	0	0	0.00	0.00	0.00	0.00
## 245	0	0	0.00	0.00	0.00	0.00

## 246	0	0	0.00	0.00	0.00	0.00
## 247	0	0	0.00	0.00	0.00	0.00
## 248	0	0	0.00	0.00	0.00	0.00
## 249	0	0	0.00	0.00	0.00	0.00
## 250	0	0	0.00	0.00	0.00	0.00
## 251	0	0	0.00	0.00	0.00	0.00
## 252	0	0	0.00	0.00	0.00	0.00
## 253	0	0	0.00	0.00	0.00	0.00
## 254	0	0	0.00	0.00	0.00	0.00
## 255	0	0	0.00	0.00	0.00	0.00
## 256	0	0	0.00	0.00	0.00	0.00
## 257	0	0	0.00	0.00	0.00	0.00
## 258	0	0	0.00	0.00	0.00	0.00
## 259	0	0	0.00	0.00	0.00	0.00
## 260	0	0	0.00	0.00	0.00	0.00
## 261	0	0	0.00	0.00	0.00	0.00
## 262	0	0	0.00	0.00	0.00	0.00
## 263	0	0	0.00	0.00	0.00	0.00
## 264	0	0	0.00	0.00	0.00	0.00
## 265	0	0	0.00	0.00	0.00	0.00
## 266	0	0	0.00	0.00	0.00	0.00
## 267	0	0	0.00	0.00	0.00	0.00
## 268	0	0	0.00	0.00	0.00	0.00
## 269	0	0	0.00	0.00	0.00	0.00
## 270	0	0	0.00	0.00	0.00	0.00
## 271	0	0	0.00	0.00	0.00	0.00
## 272	0	0	0.00	0.00	0.00	0.00
## 273	0	0	0.00	0.00	0.00	0.00
## 274	0	0	0.00	0.00	0.00	0.00
## 275	0	0	0.00	0.00	0.00	0.00
## 276	0	0	0.00	0.00	0.00	0.00
## 277	0	0	0.00	0.00	0.00	0.00
## 278	0	0	0.00	0.00	0.00	0.00
## 279	0	0	0.00	0.00	0.00	0.00
## 280	0	0	0.00	0.00	0.00	0.00
## 281	0	0	0.00	0.00	0.00	0.00
## 282	0	0	0.00	0.00	0.00	0.00
## 283	0	0	0.00	0.00	0.00	0.00
## 284	0	0	0.00	0.00	0.00	0.00
## 285	0	0	0.00	0.00	0.00	0.00
## 286	0	0	0.00	0.00	0.00	0.00
## 287	0	0	0.00	0.00	0.00	0.00
## 288	0	0	0.00	0.00	0.00	0.00
## 289	0	0	0.00	0.00	0.00	0.00
## 290	0	0	0.00	0.00	0.00	0.00
## 291	0	0	0.00	0.00	0.00	0.00
## 292	0	0	0.00	0.00	0.00	0.00
## 293	0	0	0.00	0.00	0.00	0.00
## 294	0	0	0.00	0.00	0.00	0.00
## 295	0	0	0.00	0.00	0.00	0.00
## 296	0	0	0.00	0.00	0.00	0.00
## 297	0	0	0.00	0.00	0.00	0.00
## 298	0	0	0.00	0.00	0.00	0.00
## 299	0	0	0.00	0.00	0.00	0.00

## 300	0	0	0.00	0.00	0.00	0.00
## 301	0	0	0.00	0.00	0.00	0.00
## 302	0	0	0.00	0.00	0.00	0.00
## 303	0	0	0.00	0.00	0.00	0.00
## 304	0	0	0.00	0.00	0.00	0.00
## 305	0	0	0.00	0.00	0.00	0.00
## 306	0	0	0.00	0.00	0.00	0.00
## 307	0	0	0.00	0.00	0.00	0.00
## 308	0	0	0.00	0.00	0.00	0.00
## 309	0	0	0.00	0.00	0.00	0.00
## 310	0	0	0.00	0.00	0.00	0.00
## 311	0	0	0.00	0.00	0.00	0.00
## 312	0	0	0.00	0.00	0.00	0.00
## 313	0	0	0.00	0.00	0.00	0.00
## 314	0	0	0.00	0.00	0.00	0.00
## 315	0	0	0.00	0.00	0.00	0.00
## 316	0	0	0.00	0.00	0.00	0.00
## 317	0	0	0.00	0.00	0.00	0.00
## 318	0	0	0.00	0.00	0.00	0.00
## 319	0	0	0.00	0.00	0.00	0.00
## 320	0	0	0.00	0.00	0.00	0.00
## 321	0	0	0.00	0.00	0.00	0.00
## 322	0	0	0.00	0.00	0.00	0.00
## 323	0	0	0.00	0.00	0.00	0.00
## 324	0	0	0.00	0.00	0.00	0.00
## 325	0	0	0.00	0.00	0.00	0.00
## 326	0	0	0.00	0.00	0.00	0.00
## 327	0	0	0.00	0.00	0.00	0.00
## 328	0	0	0.00	0.00	0.00	0.00
## 329	0	0	0.00	0.00	0.00	0.00
## 330	0	0	0.00	0.00	0.00	0.00
## 331	0	0	0.00	0.00	0.00	0.00
## 332	0	0	0.00	0.00	0.00	0.00
## 333	0	0	0.00	0.00	0.00	0.00
## 334	0	0	0.00	0.00	0.00	0.00
## 335	0	0	0.00	0.00	0.00	0.00
## 336	0	0	0.00	0.00	0.00	0.00
## 337	0	0	0.00	0.00	0.00	0.00
## 338	0	0	0.00	0.00	0.00	0.00
## 339	0	0	0.00	0.00	0.00	0.00
## 340	0	0	0.00	0.00	0.00	0.00
## 341	0	0	0.00	0.00	0.00	0.00
## 342	0	0	0.00	0.00	0.00	0.00
## 343	0	0	0.00	0.00	0.00	0.00
## 344	0	0	0.00	0.00	0.00	0.00
## 345	0	0	0.00	0.00	0.00	0.00
## 346	0	0	0.00	0.00	0.00	0.00
## 347	0	0	0.00	0.00	0.00	0.00
## 348	0	0	0.00	0.00	0.00	0.00
## 349	0	0	0.00	0.00	0.00	0.00
## 350	0	0	0.00	0.00	0.00	0.00
## 351	0	0	0.00	0.00	0.00	0.00
## 352	0	0	0.00	0.00	0.00	0.00
## 353	0	0	0.00	0.00	0.00	0.00

## 354	0	0	0.00	0.00	0.00	0.00
## 355	0	0	0.00	0.00	0.00	0.00
## 356	0	0	0.00	0.00	0.00	0.00
## 357	0	0	0.00	0.00	0.00	0.00
## 358	0	0	0.00	0.00	0.00	0.00
## 359	0	0	0.00	0.00	0.00	0.00
## 360	0	0	0.00	0.00	0.00	0.00
## 361	0	0	0.00	0.00	0.00	0.00
## 362	0	0	0.00	0.00	0.00	0.00
## 363	0	0	0.00	0.00	0.00	0.00
## 364	0	0	0.00	0.00	0.00	0.00
## 365	0	0	0.00	0.00	0.00	0.00
## 366	0	0	0.00	0.00	0.00	0.00
## 367	0	0	0.00	0.00	0.00	0.00
## 368	0	0	0.00	0.00	0.00	0.00
## 369	0	0	0.00	0.00	0.00	0.00
## 370	0	0	0.00	0.00	0.00	0.00
## 371	0	0	0.00	0.00	0.00	0.00
## 372	0	0	0.00	0.00	0.00	0.00
## 373	0	0	0.00	0.00	0.00	0.00
## 374	0	0	0.00	0.00	0.00	0.00
## 375	0	0	0.00	0.00	0.00	0.00
## 376	0	0	0.00	0.00	0.00	0.00
## 377	0	0	0.00	0.00	0.00	0.00
## 378	0	0	0.00	0.00	0.00	0.00
## 379	0	0	0.00	0.00	0.00	0.00
## 380	0	0	0.00	0.00	0.00	0.00
## 381	0	0	0.00	0.00	0.00	0.00
## 382	0	0	0.00	0.00	0.00	0.00
## 383	0	0	0.00	0.00	0.00	0.00
## 384	0	0	0.00	0.00	0.00	0.00
## 385	0	0	0.00	0.00	0.00	0.00
## 386	0	0	0.00	0.00	0.00	0.00
## 387	0	0	0.00	0.00	0.00	0.00
## 388	0	0	0.00	0.00	0.00	0.00
## 389	0	0	0.00	0.00	0.00	0.00
## 390	0	0	0.00	0.00	0.00	0.00
## 391	0	0	0.00	0.00	0.00	0.00
## 392	0	0	0.00	0.00	0.00	0.00
## 393	0	0	0.00	0.00	0.00	0.00
## 394	0	0	0.00	0.00	0.00	0.00
## 395	0	0	0.00	0.00	0.00	0.00
## 396	0	0	0.00	0.00	0.00	0.00
## 397	0	0	0.00	0.00	0.00	0.00
## 398	0	0	0.00	0.00	0.00	0.00
## 399	0	0	0.00	0.00	0.00	0.00
## 400	0	0	0.00	0.00	0.00	0.00
## 401	0	0	0.00	0.00	0.00	0.00
## 402	0	0	0.00	0.00	0.00	0.00
## 403	0	0	0.00	0.00	0.00	0.00
## 404	0	0	0.00	0.00	0.00	0.00
## 405	0	0	0.00	0.00	0.00	0.00
## 406	0	0	0.00	0.00	0.00	0.00
## 407	0	0	0.00	0.00	0.00	0.00

## 408	0	0	0.00	0.00	0.00	0.00
## 409	0	0	0.00	0.00	0.00	0.00
## 410	0	0	0.00	0.00	0.00	0.00
## 411	0	0	0.00	0.00	0.00	0.00
## 412	0	0	0.00	0.00	0.00	0.00
## 413	0	0	0.00	0.00	0.00	0.00
## 414	0	0	0.00	0.00	0.00	0.00
## 415	0	0	0.00	0.00	0.00	0.00
## 416	0	0	0.00	0.00	0.00	0.00
## 417	0	0	0.00	0.00	0.00	0.00
## 418	0	0	0.00	0.00	0.00	0.00
## 419	0	0	0.00	0.00	0.00	0.00
## 420	0	0	0.00	0.00	0.00	0.00
## 421	0	0	0.00	0.00	0.00	0.00
## 422	0	0	0.00	0.00	0.00	0.00
## 423	0	0	0.00	0.00	0.00	0.00
## 424	0	0	0.00	0.00	0.00	0.00
## 425	0	0	0.00	0.00	0.00	0.00
## 426	0	0	0.00	0.00	0.00	0.00
## 427	0	0	0.00	0.00	0.00	0.00
## 428	0	0	0.00	0.00	0.00	0.00
## 429	0	0	0.00	0.00	0.00	0.00
## 430	0	0	0.00	0.00	0.00	0.00
## 431	0	0	0.00	0.00	0.00	0.00
## 432	0	0	0.00	0.00	0.00	0.00
## 433	0	0	0.00	0.00	0.00	0.00
## 434	0	0	0.00	0.00	0.00	0.00
## 435	0	0	0.00	0.00	0.00	0.00
## 436	0	0	0.00	0.00	0.00	0.00
## 437	0	0	0.00	0.00	0.00	0.00
## 438	0	0	0.00	0.00	0.00	0.00
## 439	0	0	0.00	0.00	0.00	0.00
## 440	0	0	0.00	0.00	0.00	0.00
## 441	0	0	0.00	0.00	0.00	0.00
## 442	0	0	0.00	0.00	0.00	0.00
## 443	0	0	0.00	0.00	0.00	0.00
## 444	0	0	0.00	0.00	0.00	0.00
## 445	0	0	0.00	0.00	0.00	0.00
## 446	0	0	0.00	0.00	0.00	0.00
## 447	0	0	0.00	0.00	0.00	0.00
## 448	0	0	0.00	0.00	0.00	0.00
## 449	0	0	0.00	0.00	0.00	0.00
## 450	0	0	0.00	0.00	0.00	0.00
## 451	0	0	0.00	0.00	0.00	0.00
## 452	0	0	0.00	0.00	0.00	0.00
## 453	0	0	0.00	0.00	0.00	0.00
## 454	0	0	0.00	0.00	0.00	0.00
## 455	0	0	0.00	0.00	0.00	0.00
## 456	0	0	0.00	0.00	0.00	0.00
## 457	0	0	0.00	0.00	0.00	0.00
## 458	0	0	0.00	0.00	0.00	0.00
## 459	0	0	0.00	0.00	0.00	0.00
## 460	0	0	0.00	0.00	0.00	0.00
## 461	0	0	0.00	0.00	0.00	0.00



## 462	0	0	0.00	0.00	0.00	0.00
## 463	0	0	0.00	0.00	0.00	0.00
## 464	0	0	0.00	0.00	0.00	0.00
## 465	0	0	0.00	0.00	0.00	0.00
## 466	0	0	0.00	0.00	0.00	0.00
## 467	0	0	0.00	0.00	0.00	0.00
## 468	0	0	0.00	0.00	0.00	0.00
## 469	0	0	0.00	0.00	0.00	0.00
## 470	129	399	0.00	0.00	0.00	0.00
## 471	0	0	0.00	0.00	0.00	0.00
## 472	0	0	0.00	0.00	0.00	0.00
## 473	0	0	0.00	0.00	0.00	0.00
## 474	0	0	0.00	0.00	0.00	0.00
## 475	0	0	0.00	0.00	0.00	0.00
## 476	130	397	0.00	0.00	0.00	0.00
## 477	0	0	0.00	0.00	0.00	0.00
## 478	0	0	0.00	0.00	0.00	0.00
## 479	0	0	0.00	0.00	0.00	0.00
## 480	0	0	0.00	0.00	0.00	0.00
## 481	0	0	0.00	0.00	0.00	0.00
## 482	0	0	0.00	0.00	0.00	0.00
## 483	0	0	0.00	0.00	0.00	0.00
## 484	0	0	0.00	0.00	0.00	0.00
## 485	0	0	0.00	0.00	0.00	0.00
## 486	0	0	0.00	0.00	0.00	0.00
## 487	0	0	0.00	0.00	0.00	0.00
## 488	0	0	0.00	0.00	0.00	0.00
## 489	0	0	0.00	0.00	0.00	0.00
## 490	0	0	0.00	0.00	0.00	0.00
## 491	0	0	0.00	0.00	0.00	0.00
## 492	0	0	0.00	0.00	0.00	0.00
## 493	0	0	0.00	0.00	0.00	0.00
## 494	0	0	0.00	0.00	0.00	0.00
## 495	0	0	0.00	0.00	0.00	0.00
## 496	0	0	0.00	0.00	0.00	0.00
## 497	0	0	0.00	0.00	0.00	0.00
## 498	0	0	0.00	0.00	0.00	0.00
## 499	0	0	0.00	0.00	0.00	0.00
## 500	0	0	0.00	0.00	0.00	0.00
## 501	0	0	0.00	0.00	0.00	0.00
## 502	0	0	0.00	0.00	0.00	0.00
## 503	0	0	0.00	0.00	0.00	0.00
## 504	0	0	0.00	0.00	0.00	0.00
## 505	0	0	0.00	0.00	0.00	0.00
## 506	0	0	0.00	0.00	0.00	0.00
## 507	0	0	0.00	0.00	0.00	0.00
## 508	0	0	0.00	0.00	0.00	0.00
## 509	0	0	0.00	0.00	0.00	0.00
## 510	0	0	0.00	0.00	0.00	0.00
## 511	0	0	0.00	0.00	0.00	0.00
## 512	147	415	0.00	0.00	0.00	0.00
## 513	0	0	0.00	0.00	0.00	0.00
## 514	0	0	0.00	0.00	0.00	0.00
## 515	168	406	0.00	0.00	0.00	0.00

## 516	0	0	0.00	0.00	0.00	0.00
## 517	0	0	0.00	0.00	0.00	0.00
## 518	0	0	0.00	0.00	0.00	0.00
## 519	0	0	0.00	0.00	0.00	0.00
## 520	0	0	0.00	0.00	0.00	0.00
## 521	0	0	1.15	1.76	1.77	2.10
## 522	0	0	1.50	1.80	1.82	1.97
## 523	0	0	1.57	1.70	1.70	1.81
## 524	0	0	1.60	1.70	1.70	1.85
## 525	0	0	1.60	1.70	1.70	1.83
## 526	0	0	1.60	1.70	1.70	1.85
## 527	0	0	1.60	1.70	1.71	1.84
## 528	0	0	1.60	1.70	1.71	1.83
## 529	0	0	1.59	1.67	1.68	1.79
## 530	0	0	1.62	1.68	1.68	1.80
## 531	0	0	1.63	1.70	1.71	1.84
## 532	0	0	1.66	1.70	1.71	1.83
## 533	0	0	1.64	1.69	1.70	1.80
## 534	0	0	1.59	1.66	1.67	1.80
## 535	0	0	1.59	1.67	1.67	1.77
## 536	0	0	1.50	1.67	1.67	1.76
## 537	0	0	1.60	1.68	1.68	1.78
## 538	0	0	1.50	1.66	1.67	1.77
## 539	0	0	1.60	1.67	1.68	1.78
## 540	0	0	1.60	1.67	1.68	1.77
## 541	0	0	1.50	1.71	1.72	1.83
## 542	0	0	1.40	1.70	1.71	1.81
## 543	0	0	1.60	1.70	1.70	1.80
## 544	0	0	1.57	1.70	1.70	1.80
## 545	0	0	1.62	1.68	1.69	1.78
## 546	0	0	1.60	1.67	1.68	1.76
## 547	0	0	1.61	1.67	1.68	1.79
## 548	0	0	1.55	1.68	1.68	1.78
## 549	0	0	1.55	1.69	1.70	1.79
## 550	0	0	1.55	1.70	1.70	1.81
## 551	0	0	1.60	1.69	1.70	1.80
## 552	0	0	1.50	1.73	1.74	1.85
## 553	0	0	1.63	1.70	1.70	1.80
## 554	0	0	1.55	1.71	1.72	1.81
## 555	0	0	1.60	1.69	1.70	1.77
## 556	0	0	1.61	1.65	1.67	1.74
## 557	0	0	1.55	1.62	1.63	1.70
## 558	0	0	1.59	1.63	1.64	1.79
## 559	0	0	1.65	1.71	1.71	1.82
## 560	0	0	1.63	1.70	1.70	1.81
## 561	0	0	1.65	1.70	1.70	1.80
## 562	0	0	1.65	1.70	1.70	1.80
## 563	0	0	1.72	1.77	1.78	2.10
## 564	0	0	1.70	1.77	1.77	1.89
## 565	0	0	1.65	1.76	1.76	1.87
## 566	0	0	1.65	1.72	1.72	1.81
## 567	0	0	1.65	1.69	1.71	1.78
## 568	0	0	1.62	1.69	1.70	1.78
## 569	0	0	1.62	1.67	1.67	1.76

## 570	0	0	1.60	1.66	1.67	1.75
## 571	0	0	1.61	1.64	1.65	1.78
## 572	0	0	1.60	1.68	1.68	1.80
## 573	0	0	1.76	1.87	1.87	1.97
## 574	0	0	1.82	1.87	1.88	2.05
## 575	0	0	1.80	1.85	1.86	1.95
## 576	0	0	1.79	1.84	1.85	1.94
## 577	0	0	1.77	1.83	1.84	1.94
## 578	0	0	1.78	1.83	1.84	1.99
## 579	0	0	1.80	1.90	1.90	2.00
## 580	0	0	1.76	1.88	1.89	1.97
## 581	0	0	1.75	1.88	1.90	1.98
## 582	0	0	1.80	1.88	1.89	1.97
## 583	0	0	1.80	1.90	1.91	2.15
## 584	0	0	1.60	2.10	2.10	2.35
## 585	0	0	1.80	2.00	2.02	2.13
## 586	0	0	1.80	1.97	1.98	2.08
## 587	0	0	1.83	1.95	1.95	2.03
## 588	0	0	1.81	1.90	1.91	1.99
## 589	0	0	1.82	1.87	1.87	1.95
## 590	0	0	1.82	1.86	1.87	2.00
## 591	0	0	1.82	1.86	1.87	1.95
## 592	0	0	1.82	1.86	1.87	1.96
## 593	0	0	1.82	1.87	1.88	2.05
## 594	0	0	1.86	1.92	1.92	2.03
## 595	0	0	1.85	1.90	1.91	2.00
## 596	0	0	1.82	1.87	1.87	1.95
## 597	0	0	1.82	1.88	1.88	1.97
## 598	0	0	1.81	1.86	1.86	1.95
## 599	0	0	1.80	1.86	1.86	1.95
## 600	0	0	1.79	1.89	1.90	1.99
## 601	0	0	1.82	1.86	1.86	1.97
## 602	0	0	1.83	1.89	1.90	1.99
## 603	0	0	1.80	1.87	1.87	1.96
## 604	0	0	1.80	1.86	1.87	1.95
## 605	0	0	1.82	1.91	1.92	2.00
## 606	0	0	1.81	1.85	1.86	1.97
## 607	0	0	1.80	1.90	1.90	2.00
## 608	0	0	1.80	1.83	1.84	2.00
## 609	0	0	1.80	1.84	1.84	1.96
## 610	0	0	1.82	1.86	1.87	1.97
## 611	0	0	1.82	1.87	1.88	1.97
## 612	0	0	1.84	1.90	1.90	2.00
## 613	0	0	1.83	1.87	1.88	2.05
## 614	0	0	1.85	1.89	1.89	2.02
## 615	0	0	1.85	1.90	1.91	2.06
## 616	0	0	1.85	1.97	1.97	2.10
## 617	0	0	1.86	1.98	1.98	2.08
## 618	0	0	1.85	1.89	1.90	1.97
## 619	0	0	1.84	1.88	1.89	1.98
## 620	0	0	1.82	1.88	1.89	1.98
## 621	0	0	1.84	1.89	1.89	2.01
## 622	0	0	1.85	1.92	1.93	2.05
## 623	0	0	1.84	1.94	1.94	2.04

## 624	0	0	1.84	1.94	1.95	2.05
## 625	0	0	1.84	1.94	1.95	2.05
## 626	0	0	1.85	1.92	1.93	2.01
## 627	0	0	1.82	1.92	1.93	2.02
## 628	0	0	1.85	1.95	1.95	2.05
## 629	0	0	1.85	1.92	1.93	2.04
## 630	0	0	1.84	1.92	1.93	2.02
## 631	0	0	1.85	1.91	1.91	2.03
## 632	0	0	1.85	1.91	1.91	2.04
## 633	0	0	1.85	1.91	1.92	2.02
## 634	0	0	1.85	1.92	1.92	2.02
## 635	0	0	1.80	1.92	1.92	2.03
## 636	0	0	1.85	1.91	1.92	2.00
## 637	0	0	1.85	1.91	1.92	2.07
## 638	0	0	1.86	1.97	1.97	2.07
## 639	0	0	1.83	1.91	1.92	2.00
## 640	0	0	1.84	1.90	1.90	2.00
## 641	0	0	1.80	1.90	1.91	1.99
## 642	0	0	1.84	1.90	1.90	1.99
## 643	0	0	1.83	1.94	1.94	2.04
## 644	0	0	1.83	1.91	1.91	2.00
## 645	0	0	1.80	1.91	1.91	2.00
## 646	0	0	2.01	2.14	2.15	2.24
## 647	0	0	2.00	2.23	2.25	2.35
## 648	0	0	2.05	2.19	2.20	2.30
## 649	0	0	2.10	2.18	2.19	2.29
## 650	0	0	2.13	2.18	2.18	2.28
## 651	0	0	2.11	2.17	2.17	2.25
## 652	0	0	2.10	2.14	2.14	2.24
## 653	0	0	2.00	2.13	2.13	2.27
## 654	0	0	2.05	2.14	2.14	2.27
## 655	0	0	1.95	2.15	2.16	2.27
## 656	0	0	2.11	2.16	2.16	2.27
## 657	0	0	2.00	2.19	2.20	2.29
## 658	0	0	2.05	2.17	2.18	2.27
## 659	0	0	2.11	2.17	2.17	2.28
## 660	0	0	2.12	2.18	2.18	2.27
## 661	0	0	2.12	2.17	2.17	2.27
## 662	0	0	2.06	2.17	2.17	2.26
## 663	0	0	2.10	2.15	2.15	2.24
## 664	0	0	2.10	2.16	2.17	2.26
## 665	0	0	2.12	2.17	2.17	2.27
## 666	0	0	2.12	2.17	2.17	2.27
## 667	0	0	2.10	2.17	2.17	2.27
## 668	0	0	2.10	2.17	2.17	2.25
## 669	0	0	2.08	2.19	2.20	2.35
## 670	0	0	2.10	2.20	2.21	2.47
## 671	0	0	2.15	2.24	2.24	2.37
## 672	0	0	2.10	2.23	2.23	2.33
## 673	0	0	2.10	2.21	2.22	2.30
## 674	0	0	2.10	2.16	2.17	2.24
## 675	0	0	2.07	2.20	2.20	2.29
## 676	0	0	2.12	2.18	2.19	2.28
## 677	0	0	2.00	2.17	2.17	2.26

## 678	0	0	2.12	2.17	2.17	2.29
## 679	0	0	2.12	2.25	2.26	2.37
## 680	0	0	2.17	2.25	2.26	2.34
## 681	0	0	2.15	2.22	2.23	2.31
## 682	0	0	2.10	2.18	2.19	2.27
## 683	0	0	2.13	2.17	2.17	2.26
## 684	0	0	2.15	2.22	2.23	2.32
## 685	0	0	2.13	2.18	2.19	2.27
## 686	0	0	2.12	2.17	2.18	2.28
## 687	0	0	2.13	2.18	2.19	2.28
## 688	0	0	2.12	2.23	2.23	2.34
## 689	0	0	2.16	2.27	2.28	2.37
## 690	0	0	2.18	2.22	2.23	2.31
## 691	0	0	2.20	2.23	2.23	2.85
## 692	0	0	2.17	2.19	2.20	2.35
## 693	0	0	2.17	2.19	2.20	2.35
## 694	0	0	2.17	2.19	2.20	2.35
## 695	0	0	2.17	2.19	2.20	2.35
## 696	0	0	2.17	2.19	2.20	2.35
## 697	0	0	2.17	2.19	2.20	2.35
## 698	0	0	2.17	2.19	2.20	2.35
## 699	0	0	2.17	2.19	2.20	2.35
## 700	0	0	2.17	2.19	2.20	2.35
## 701	0	0	2.17	2.19	2.20	2.35
## 702	0	0	2.16	2.19	2.21	2.35
## 703	0	0	2.37	2.39	2.41	2.60
## 704	0	0	2.37	2.39	2.41	2.60
## 705	0	0	2.37	2.39	2.41	2.60
## 706	0	0	2.37	2.40	2.41	2.60
## 707	0	0	2.34	2.39	2.41	2.60
## 708	0	0	2.35	2.39	2.41	2.60
## 709	0	0	2.25	2.40	2.41	2.60
## 710	0	0	2.36	2.40	2.41	2.60
## 711	0	0	2.34	2.40	2.41	2.60
## 712	0	0	2.37	2.40	2.41	2.60
## 713	0	0	2.34	2.40	2.41	2.60
## 714	0	0	2.35	2.40	2.41	2.60
## 715	0	0	2.37	2.40	2.41	2.60
## 716	0	0	2.37	2.40	2.41	2.60
## 717	0	0	2.35	2.39	2.41	2.60
## 718	0	0	2.37	2.40	2.41	2.60
## 719	0	0	2.37	2.40	2.41	2.60
## 720	0	0	2.36	2.40	2.41	2.60
## 721	0	0	2.37	2.40	2.41	2.60
## 722	0	0	2.35	2.40	2.41	2.60
## 723	0	0	2.36	2.40	2.41	2.60
## 724	0	0	2.36	2.40	2.41	2.60
## 725	0	0	2.34	2.40	2.41	2.60
## 726	0	0	2.37	2.39	2.41	2.60
## 727	0	0	2.36	2.40	2.41	2.60
## 728	0	0	2.36	2.40	2.41	2.60
## 729	0	0	2.37	2.40	2.41	2.60
## 730	0	0	2.36	2.40	2.41	2.60
## 731	0	0	2.34	2.40	2.40	2.60

## 732	0	0	2.34	2.39	2.40	2.60
## 733	0	0	2.35	2.39	2.40	2.60
## 734	0	0	2.37	2.39	2.40	2.60
## 735	0	0	2.37	2.39	2.40	2.60
## 736	0	0	2.37	2.39	2.40	2.60
## 737	0	0	2.37	2.40	2.41	2.60
## 738	0	0	2.36	2.40	2.41	2.60
## 739	0	0	2.34	2.40	2.41	2.60
## 740	0	0	2.37	2.40	2.40	2.60
## 741	0	0	2.37	2.40	2.41	2.60
## 742	0	0	2.37	2.40	2.41	2.60
## 743	0	0	2.37	2.40	2.41	2.60
## 744	0	0	2.37	2.40	2.41	2.60
## 745	0	0	2.37	2.40	2.41	2.60
## 746	0	0	2.37	2.40	2.41	2.60
## 747	0	0	2.37	2.40	2.41	2.60
## 748	0	0	2.37	2.40	2.41	2.60
## 749	0	0	2.37	2.40	2.41	2.60
## 750	0	0	2.34	2.39	2.41	2.60
## 751	0	0	2.37	2.39	2.41	2.60
## 752	0	0	2.37	2.39	2.41	2.60
## 753	0	0	2.37	2.39	2.40	2.55
## 754	0	0	2.37	2.40	2.41	2.60
## 755	0	0	2.35	2.40	2.41	2.54
## 756	0	0	2.37	2.40	2.40	2.55
## 757	0	0	2.37	2.40	2.40	2.54
## 758	0	0	2.37	2.40	2.40	2.55
## 759	0	0	2.37	2.40	2.40	2.60
## 760	0	0	2.37	2.40	2.41	2.60
## 761	0	0	2.34	2.40	2.41	2.60
## 762	0	0	2.37	2.40	2.41	2.60
## 763	0	0	2.35	2.40	2.41	2.60
## 764	0	0	2.37	2.40	2.41	2.60
## 765	0	0	2.37	2.40	2.41	2.60
## 766	0	0	2.37	2.40	2.41	2.60
## 767	0	0	2.37	2.40	2.41	2.55
## 768	0	0	2.37	2.40	2.41	2.60
## 769	0	0	2.37	2.40	2.41	2.60
## 770	0	0	2.35	2.41	2.43	2.60
## 771	0	0	2.37	2.40	2.41	2.60
## 772	0	0	2.35	2.40	2.41	2.60
## 773	0	0	2.37	2.40	2.41	2.60
## 774	0	0	2.37	2.40	2.41	2.60
## 775	0	0	2.37	2.40	2.41	2.60
## 776	0	0	2.37	2.40	2.42	2.55
## 777	0	0	2.37	2.40	2.42	2.55
## 778	0	0	2.37	2.40	2.42	2.55
## 779	0	0	2.37	2.40	2.41	2.60
## 780	0	0	2.37	2.40	2.41	2.55
## 781	0	0	2.37	2.40	2.41	2.60
## 782	0	0	2.37	2.40	2.42	2.60
## 783	0	0	2.35	2.41	2.43	2.60
## 784	0	0	2.37	2.42	2.43	2.60
## 785	0	0	2.35	2.43	2.43	2.48

## 786	0	0	2.33	2.45	2.45	2.48
## 787	0	0	2.36	2.40	2.41	2.45
## 788	0	0	2.37	2.41	2.41	2.46
## 789	0	0	2.40	2.44	2.45	2.48
## 790	0	0	2.35	2.46	2.47	2.50
## 791	0	0	2.30	2.72	2.75	2.78
## 792	0	0	2.45	2.50	2.51	2.54
## 793	0	0	2.32	2.46	2.46	2.52
## 794	0	0	2.35	2.40	2.41	2.46
## 795	0	0	2.35	2.40	2.41	2.45
## 796	0	0	2.36	2.41	2.42	2.45
## 797	0	0	2.34	2.39	2.40	2.43
## 798	0	0	2.33	2.38	2.38	2.42
## 799	0	0	2.31	2.36	2.37	2.41
## 800	0	0	2.32	2.35	2.35	2.39
## 801	0	0	2.32	2.35	2.36	2.43
## 802	0	0	2.34	2.45	2.45	2.51
## 803	0	0	2.35	2.40	2.40	2.46
## 804	0	0	2.30	2.38	2.39	2.42
## 805	0	0	2.30	2.36	2.36	2.41
## 806	0	0	2.30	2.36	2.36	2.39
## 807	0	0	2.28	2.34	2.34	2.40
## 808	0	0	2.29	2.34	2.34	2.38
## 809	0	0	2.29	2.34	2.34	2.38
## 810	0	0	2.31	2.38	2.38	2.43
## 811	0	0	2.28	2.39	2.39	2.43
## 812	0	0	2.28	2.39	2.39	2.44
## 813	0	0	0.00	0.00	0.00	0.00
## 814	0	0	2.33	2.36	2.37	2.46
## 815	0	0	2.31	2.36	2.36	2.42
## 816	0	0	2.28	2.36	2.36	2.42
## 817	0	0	2.30	2.37	2.37	2.43
## 818	0	0	2.27	2.37	2.37	2.44
## 819	0	0	2.32	2.37	2.37	2.45
## 820	0	0	2.25	2.36	2.37	2.41
## 821	0	0	2.28	2.35	2.36	2.41
## 822	0	0	2.29	2.34	2.34	2.37
## 823	0	0	2.29	2.31	2.32	2.36
## 824	0	0	2.33	2.38	2.38	2.41
## 825	0	0	2.30	2.36	2.36	2.40
## 826	0	0	2.29	2.34	2.34	2.37
## 827	0	0	2.30	2.32	2.33	2.37
## 828	0	0	2.30	2.35	2.35	2.39
## 829	0	0	2.30	2.38	2.38	2.42
## 830	0	0	2.30	2.40	2.40	2.46
## 831	0	0	2.28	2.42	2.43	2.49
## 832	0	0	2.28	2.39	2.40	2.47
## 833	0	0	2.28	2.47	2.50	2.64
## 834	0	0	2.30	2.38	2.38	2.75
## 835	0	0	2.40	2.49	2.50	2.55
## 836	0	0	2.45	2.55	2.55	2.60
## 837	0	0	2.35	2.58	2.58	2.65
## 838	0	0	2.40	2.45	2.46	2.55
## 839	0	0	2.40	2.45	2.45	2.52

## 840	0	0	2.28	2.44	2.45	2.52
## 841	0	0	2.28	2.39	2.40	2.48
## 842	0	0	2.32	2.34	2.34	2.42
## 843	0	0	2.40	2.43	2.44	2.51
## 844	0	0	2.39	2.44	2.44	2.51
## 845	0	0	2.32	2.45	2.46	2.50
## 846	0	0	2.28	2.44	2.45	2.48
## 847	0	0	2.35	2.40	2.40	2.43
## 848	0	0	2.22	2.38	2.39	2.43
## 849	0	0	2.33	2.38	2.39	2.42
## 850	0	0	2.28	2.40	2.40	2.44
## 851	0	0	2.35	2.41	2.42	2.45
## 852	0	0	2.30	2.40	2.40	2.43
## 853	0	0	2.28	2.39	2.40	2.43
## 854	0	0	2.26	2.38	2.38	2.44
## 855	0	0	2.28	2.52	2.54	2.65
## 856	0	0	1.99	2.18	2.19	2.26
## 857	0	0	2.05	2.18	2.18	2.21
## 858	0	0	2.07	2.12	2.13	2.17
## 859	0	0	2.05	2.10	2.10	2.15
## 860	0	0	2.04	2.08	2.09	2.13
## 861	0	0	2.05	2.07	2.07	2.12
## 862	0	0	2.05	2.10	2.11	2.13
## 863	0	0	2.03	2.11	2.11	2.16
## 864	0	0	2.00	2.16	2.16	2.20
## 865	0	0	2.03	2.12	2.13	2.15
## 866	0	0	2.03	2.17	2.18	2.20
## 867	0	0	2.05	2.12	2.12	2.15
## 868	0	0	2.05	2.10	2.10	2.13
## 869	0	0	2.03	2.12	2.12	2.15
## 870	0	0	2.03	2.08	2.08	2.12
## 871	0	0	2.03	2.07	2.07	2.12
## 872	0	0	2.04	2.07	2.07	2.12
## 873	0	0	2.04	2.08	2.09	2.14
## 874	0	0	2.03	2.14	2.14	2.17
## 875	0	0	2.03	2.11	2.12	2.15
## 876	0	0	2.03	2.11	2.11	2.15
## 877	0	0	2.03	2.14	2.15	2.20
## 878	0	0	2.10	2.15	2.15	2.25
## 879	0	0	2.03	2.20	2.21	2.23
## 880	0	0	2.10	2.20	2.20	2.23
## 881	0	0	2.02	2.15	2.15	2.18
## 882	0	0	2.08	2.11	2.11	2.18
## 883	0	0	2.08	2.13	2.13	2.16
## 884	0	0	2.10	2.14	2.14	2.18
## 885	0	0	2.12	2.18	2.18	2.22
## 886	0	0	2.14	2.18	2.19	2.26
## 887	0	0	2.35	2.41	2.42	3.50
## 888	0	0	2.00	5.00	5.50	5.85
## 889	0	0	2.00	2.50	2.50	3.00
## 890	0	0	1.70	1.90	1.93	2.00
## 891	0	0	1.78	1.85	1.85	1.99
## 892	0	0	1.78	1.82	1.82	1.91
## 893	0	0	1.73	1.93	1.94	1.97



## 894	0	0	1.75	1.99	2.00	2.05
## 895	0	0	1.73	1.81	1.82	1.90
## 896	0	0	1.74	1.80	1.80	1.88
## 897	0	0	1.80	2.30	2.35	2.40
## 898	0	0	1.73	1.84	1.84	1.90
## 899	0	0	1.75	1.81	1.82	1.87
## 900	0	0	1.77	1.81	1.81	1.87
## 901	0	0	1.75	1.79	1.79	1.85
## 902	0	0	1.76	1.79	1.80	1.85
## 903	0	0	1.77	1.82	1.82	1.85
## 904	0	0	1.77	1.82	1.82	1.85
## 905	0	0	1.73	1.82	1.82	1.85
## 906	0	0	1.77	1.82	1.82	1.85
## 907	0	0	1.85	1.95	1.96	2.06
## 908	0	0	1.82	2.02	2.03	2.06
## 909	0	0	1.81	1.93	1.93	1.96
## 910	0	0	1.80	1.85	1.86	1.91
## 911	0	0	1.78	1.83	1.83	1.87
## 912	0	0	1.76	1.85	1.86	1.88
## 913	0	0	1.79	1.83	1.84	1.87
## 914	0	0	1.78	1.84	1.85	1.88
## 915	0	0	1.75	1.81	1.81	1.85
## 916	0	0	1.72	1.79	1.80	1.84
## 917	0	0	1.75	1.78	1.78	1.82
## 918	0	0	1.72	1.80	1.80	1.83
## 919	0	0	1.62	1.72	1.73	1.80
## 920	0	0	1.50	1.55	1.55	1.60
## 921	0	0	1.48	1.54	1.54	1.58
## 922	0	0	1.46	1.55	1.55	1.59
## 923	0	0	1.48	1.53	1.53	1.57
## 924	0	0	1.49	1.53	1.53	1.58
## 925	0	0	1.48	1.53	1.53	1.57
## 926	0	0	1.50	1.54	1.55	1.58
## 927	0	0	1.48	1.54	1.55	1.58
## 928	0	0	1.50	1.55	1.55	1.59
## 929	0	0	1.50	1.54	1.55	1.60
## 930	0	0	1.48	1.52	1.52	1.59
## 931	0	0	1.48	1.53	1.53	1.59
## 932	0	0	1.49	1.54	1.54	1.60
## 933	0	0	1.45	1.54	1.55	1.60
## 934	0	0	1.45	1.55	1.56	1.61
## 935	0	0	1.47	1.53	1.54	1.59
## 936	0	0	1.46	1.51	1.51	1.56
## 937	0	0	1.46	1.50	1.50	1.57
## 938	0	0	1.50	1.62	1.63	1.65
## 939	0	0	1.45	1.60	1.60	1.64
## 940	0	0	1.47	1.50	1.51	1.58
## 941	0	0	1.45	1.50	1.51	1.56
## 942	0	0	1.46	1.51	1.52	1.57
## 943	0	0	1.47	1.52	1.52	1.57
## 944	0	0	1.47	1.52	1.53	1.57
## 945	0	0	1.46	1.51	1.51	1.56
## 946	0	0	1.45	1.50	1.50	1.56
## 947	0	0	1.44	1.49	1.50	1.55

## 948	0	0	1.45	1.50	1.50	1.56
## 949	0	0	1.50	1.59	1.60	1.65
## 950	0	0	1.45	1.50	1.50	1.57
## 951	0	0	1.45	1.50	1.51	1.55
## 952	0	0	1.45	1.50	1.50	1.55
## 953	0	0	1.42	1.49	1.49	1.54
## 954	0	0	1.44	1.50	1.50	1.54
## 955	0	0	1.30	1.50	1.50	1.55
## 956	0	0	1.43	1.49	1.50	1.57
## 957	0	0	1.43	1.50	1.50	1.56
## 958	0	0	1.43	1.51	1.52	1.60
## 959	0	0	1.40	1.55	1.55	1.62
## 960	0	0	1.45	1.50	1.50	1.60
## 961	0	0	1.47	1.51	1.52	1.57
## 962	0	0	1.47	1.52	1.53	1.57
## 963	0	0	1.47	1.53	1.53	1.58
## 964	0	0	1.47	1.52	1.52	1.57
## 965	0	0	1.47	1.52	1.52	1.56
## 966	0	0	1.47	1.52	1.52	1.56
## 967	0	0	1.47	1.52	1.52	1.56
## 968	0	0	1.47	1.52	1.52	1.56
## 969	0	0	1.47	1.53	1.53	1.56
## 970	0	0	1.47	1.52	1.52	1.56
## 971	0	0	1.46	1.51	1.52	1.55
## 972	0	0	1.44	1.51	1.52	1.56
## 973	0	0	1.45	1.51	1.51	1.55
## 974	0	0	1.45	1.51	1.51	1.54
## 975	0	0	1.46	1.51	1.51	1.54
## 976	0	0	1.46	1.51	1.51	1.54
## 977	0	0	1.46	1.51	1.51	1.55
## 978	0	0	1.46	1.51	1.51	1.54
## 979	0	0	1.48	1.55	1.55	1.59
## 980	0	0	1.51	1.57	1.57	1.63
## 981	0	0	1.52	1.57	1.57	1.61
## 982	0	0	1.51	1.58	1.58	1.63
## 983	0	0	1.50	1.57	1.57	1.62
## 984	0	0	1.52	1.57	1.57	1.62
## 985	0	0	1.51	1.56	1.56	1.61
## 986	0	0	1.51	1.56	1.56	1.59
## 987	0	0	1.51	1.56	1.56	1.59
## 988	0	0	1.51	1.55	1.56	1.59
## 989	0	0	1.51	1.55	1.56	1.59
## 990	0	0	1.52	1.56	1.56	1.59
## 991	0	0	1.52	1.57	1.58	1.62
## 992	0	0	1.52	1.57	1.57	1.60
## 993	0	0	1.50	1.58	1.59	1.61
## 994	0	0	1.51	1.56	1.56	1.59
## 995	0	0	1.51	1.56	1.56	1.59
## 996	0	0	1.52	1.57	1.57	1.60
## 997	0	0	1.52	1.57	1.57	1.61
## 998	0	0	1.46	1.57	1.57	1.60
## 999	0	0	1.50	1.59	1.59	1.61
## 1000	0	0	1.52	1.57	1.57	1.65
## 1001	0	0	1.55	1.63	1.63	1.66

## 1002	0	0	1.03	1.22	1.22	1.25
## 1003	0	0	1.06	1.11	1.11	1.14
## 1004	0	0	1.04	1.08	1.08	1.12
## 1005	0	0	1.00	1.08	1.08	1.12
## 1006	0	0	1.05	1.09	1.10	1.13
## 1007	0	0	1.08	1.13	1.14	1.16
## 1008	0	0	1.00	1.20	1.20	1.22
## 1009	0	0	1.02	1.08	1.09	1.13
## 1010	0	0	0.10	0.22	0.23	0.38
## 1011	0	0	0.05	0.50	0.53	0.75
## 1012	0	0	0.03	0.08	0.10	0.11
## 1013	0	0	0.01	0.05	0.06	0.08
## 1014	0	0	0.00	0.03	0.04	0.07
## 1015	0	0	0.00	0.01	0.02	0.03
## 1016	0	0	0.00	0.01	0.01	0.02
## 1017	0	0	0.00	0.01	0.01	0.04
## 1018	0	0	0.00	0.01	0.01	0.02
## 1019	0	0	0.00	0.01	0.01	0.02
## 1020	0	0	0.00	0.01	0.01	0.02
## 1021	0	0	0.00	0.01	0.01	0.02
## 1022	0	0	0.00	0.01	0.01	0.02
## 1023	0	0	0.00	0.01	0.01	0.04
## 1024	0	0	0.01	0.01	0.01	0.02
## 1025	0	0	0.00	0.01	0.01	0.02
## 1026	0	0	0.01	0.01	0.01	0.04
## 1027	0	0	0.01	0.01	0.01	0.03
## 1028	0	0	0.01	0.01	0.01	0.05
## 1029	0	0	0.01	0.02	0.07	0.17
## 1030	0	0	0.03	0.05	0.11	0.21
## 1031	0	0	0.02	0.03	0.08	0.18
## 1032	0	0	0.01	0.02	0.08	0.16
## 1033	0	0	0.02	0.02	0.08	0.16
## 1034	0	0	0.01	0.01	0.06	0.15
## 1035	0	0	0.00	0.01	0.03	0.13
## 1036	0	0	0.00	0.01	0.03	0.12
## 1037	0	0	0.01	0.01	0.04	0.13
## 1038	0	0	0.02	0.03	0.08	0.16
## 1039	0	0	0.02	0.02	0.07	0.16
## 1040	0	0	0.01	0.01	0.05	0.15
## 1041	0	0	0.01	0.01	0.05	0.13
## 1042	0	0	0.02	0.02	0.09	0.16
## 1043	0	0	0.02	0.03	0.09	0.16
## 1044	0	0	0.02	0.04	0.10	0.18
## 1045	0	0	0.03	0.04	0.09	0.17
## 1046	0	0	0.03	0.04	0.10	0.17
## 1047	0	0	0.04	0.05	0.10	0.17
## 1048	0	0	0.04	0.05	0.11	0.18
## 1049	0	0	0.04	0.05	0.11	0.18
## 1050	0	0	0.04	0.05	0.11	0.18
## 1051	0	0	0.02	0.04	0.08	0.17
## 1052	0	0	0.01	0.01	0.06	0.14
## 1053	0	0	0.03	0.04	0.10	0.17
## 1054	0	0	0.01	0.03	0.07	0.16
## 1055	0	0	0.02	0.03	0.08	0.16

## 1056	0	0	0.00	0.01	0.04	0.13
## 1057	0	0	0.01	0.01	0.05	0.12
## 1058	0	0	0.03	0.03	0.09	0.16
## 1059	0	0	0.04	0.05	0.12	0.18
## 1060	0	0	0.03	0.04	0.10	0.17
## 1061	0	0	0.04	0.05	0.12	0.19
## 1062	0	0	0.04	0.05	0.10	0.19
## 1063	0	0	0.04	0.05	0.12	0.18
## 1064	0	0	0.05	0.05	0.13	0.18
## 1065	0	0	0.04	0.05	0.11	0.18
## 1066	0	0	0.04	0.06	0.12	0.18
## 1067	0	0	0.05	0.06	0.12	0.18
## 1068	0	0	0.05	0.06	0.12	0.19
## 1069	0	0	0.05	0.06	0.13	0.19
## 1070	0	0	0.05	0.06	0.12	0.18
## 1071	0	0	0.05	0.06	0.12	0.18
## 1072	0	0	0.05	0.06	0.13	0.19
## 1073	0	0	0.06	0.07	0.13	0.20
## 1074	0	0	0.06	0.07	0.13	0.20
## 1075	0	0	0.06	0.07	0.13	0.19
## 1076	0	0	0.06	0.07	0.12	0.19
## 1077	0	0	0.06	0.06	0.12	0.19
## 1078	0	0	0.05	0.06	0.12	0.19
## 1079	0	0	0.04	0.05	0.11	0.18
## 1080	0	0	0.05	0.06	0.12	0.18
## 1081	0	0	0.05	0.07	0.13	0.19
## 1082	0	0	0.05	0.06	0.12	0.19
## 1083	0	0	0.05	0.06	0.12	0.19
## 1084	0	0	0.06	0.07	0.13	0.20
## 1085	0	0	0.06	0.07	0.13	0.19
## 1086	0	0	0.07	0.08	0.14	0.20
## 1087	0	0	0.03	0.08	0.10	0.14
## 1088	0	0	0.03	0.08	0.09	0.18
## 1089	0	0	0.03	0.08	0.09	0.18
## 1090	0	0	0.03	0.08	0.09	0.19
## 1091	0	0	0.03	0.08	0.09	0.19
## 1092	0	0	0.03	0.08	0.09	0.19
## 1093	0	0	0.03	0.08	0.09	0.18
## 1094	0	0	0.03	0.08	0.09	0.18
## 1095	0	0	0.03	0.08	0.11	0.18
## 1096	0	0	0.03	0.08	0.10	0.20
## 1097	0	0	0.03	0.08	0.10	0.20
## 1098	0	0	0.04	0.08	0.10	0.19
## 1099	0	0	0.04	0.08	0.10	0.20
## 1100	0	0	0.04	0.08	0.10	0.20
## 1101	0	0	0.04	0.08	0.09	0.19
## 1102	0	0	0.03	0.08	0.09	0.20
## 1103	0	0	0.03	0.08	0.10	0.19
## 1104	0	0	0.04	0.08	0.09	0.20
## 1105	0	0	0.04	0.08	0.10	0.20
## 1106	0	0	0.04	0.08	0.10	0.20
## 1107	0	0	0.03	0.08	0.10	0.20
## 1108	0	0	0.02	0.08	0.10	0.20
## 1109	0	0	0.04	0.08	0.10	0.20

## 1110	0	0	0.04	0.08	0.10	0.20
## 1111	0	0	0.04	0.08	0.10	0.20
## 1112	0	0	0.04	0.08	0.10	0.20
## 1113	0	0	0.05	0.08	0.10	0.20
## 1114	0	0	0.05	0.08	0.10	0.20
## 1115	0	0	0.04	0.08	0.10	0.20
## 1116	0	0	0.03	0.08	0.10	0.20
## 1117	0	0	0.04	0.08	0.10	0.21
## 1118	0	0	0.04	0.08	0.10	0.20
## 1119	0	0	0.04	0.08	0.09	0.20
## 1120	0	0	0.05	0.08	0.09	0.20
## 1121	0	0	0.05	0.08	0.09	0.20
## 1122	0	0	0.05	0.08	0.09	0.20
## 1123	0	0	0.05	0.08	0.09	0.20
## 1124	0	0	0.05	0.08	0.09	0.20
## 1125	0	0	0.05	0.08	0.09	0.20
## 1126	0	0	0.03	0.08	0.09	0.20
## 1127	0	0	0.05	0.08	0.09	0.20
## 1128	0	0	0.03	0.08	0.09	0.20
## 1129	0	0	0.04	0.08	0.09	0.20
## 1130	0	0	0.04	0.08	0.09	0.20
## 1131	0	0	0.05	0.08	0.09	0.20
## 1132	0	0	0.04	0.08	0.09	0.20
## 1133	0	0	0.04	0.08	0.09	0.20
## 1134	0	0	0.04	0.08	0.09	0.20
## 1135	0	0	0.03	0.08	0.09	0.20
## 1136	0	0	0.03	0.08	0.09	0.20
## 1137	0	0	0.03	0.08	0.09	0.20
## 1138	0	0	0.04	0.08	0.09	0.20
## 1139	0	0	0.04	0.08	0.09	0.20
## 1140	0	0	0.04	0.08	0.09	0.20
## 1141	0	0	0.03	0.08	0.09	0.20
## 1142	0	0	0.04	0.08	0.09	0.18
## 1143	0	0	0.03	0.08	0.09	0.18
## 1144	0	0	0.04	0.08	0.09	0.15
## 1145	0	0	0.04	0.08	0.09	0.18
## 1146	0	0	0.04	0.08	0.09	0.20
## 1147	0	0	0.04	0.08	0.09	0.20
## 1148	0	0	0.04	0.08	0.09	0.20
## 1149	0	0	0.01	0.07	0.09	0.19
## 1150	0	0	0.05	0.08	0.09	0.19
## 1151	0	0	0.03	0.08	0.09	0.20
## 1152	0	0	0.05	0.08	0.09	0.20
## 1153	0	0	0.05	0.08	0.09	0.20
## 1154	0	0	0.05	0.08	0.09	0.20
## 1155	0	0	0.04	0.08	0.09	0.20
## 1156	0	0	0.05	0.08	0.09	0.20
## 1157	0	0	0.04	0.08	0.09	0.20
## 1158	0	0	0.04	0.08	0.09	0.20
## 1159	0	0	0.05	0.08	0.09	0.20
## 1160	0	0	0.05	0.08	0.09	0.20
## 1161	0	0	0.04	0.08	0.09	0.20
## 1162	0	0	0.04	0.08	0.09	0.20
## 1163	0	0	0.05	0.08	0.09	0.20

## 1164	0	0	0.05	0.08	0.09	0.19
## 1165	0	0	0.05	0.08	0.09	0.19
## 1166	0	0	0.05	0.08	0.09	0.18
## 1167	0	0	0.04	0.08	0.09	0.18
## 1168	0	0	0.05	0.08	0.09	0.18
## 1169	0	0	0.04	0.08	0.09	0.18
## 1170	0	0	0.03	0.08	0.09	0.18
## 1171	0	0	0.03	0.08	0.09	0.18
## 1172	0	0	0.03	0.08	0.09	0.18
## 1173	0	0	0.04	0.08	0.09	0.18
## 1174	0	0	0.04	0.08	0.09	0.18
## 1175	0	0	0.04	0.08	0.09	0.18
## 1176	0	0	0.04	0.08	0.09	0.18
## 1177	0	0	0.04	0.08	0.09	0.18
## 1178	0	0	0.04	0.08	0.10	0.18
## 1179	0	0	0.03	0.08	0.09	0.18
## 1180	0	0	0.03	0.08	0.09	0.18
## 1181	0	0	0.04	0.08	0.09	0.18
## 1182	0	0	0.04	0.08	0.09	0.18
## 1183	0	0	0.05	0.08	0.09	0.18
## 1184	0	0	0.04	0.08	0.08	0.18
## 1185	0	0	0.04	0.08	0.08	0.18
## 1186	0	0	0.04	0.08	0.08	0.18
## 1187	0	0	0.05	0.08	0.08	0.16
## 1188	0	0	0.04	0.08	0.08	0.16
## 1189	0	0	0.01	0.08	0.09	0.18
## 1190	0	0	0.04	0.08	0.09	0.18
## 1191	0	0	0.04	0.08	0.09	0.15
## 1192	0	0	0.04	0.08	0.09	0.15
## 1193	0	0	0.04	0.08	0.09	0.15
## 1194	0	0	0.04	0.08	0.09	0.15
## 1195	0	0	0.04	0.08	0.09	0.15
## 1196	0	0	0.05	0.08	0.09	0.15
## 1197	0	0	0.04	0.08	0.09	0.15
## 1198	0	0	0.04	0.08	0.09	0.15
## 1199	0	0	0.04	0.08	0.09	0.15
## 1200	0	0	0.04	0.08	0.09	0.15
## 1201	0	0	0.04	0.08	0.09	0.15
## 1202	0	0	0.03	0.08	0.09	0.15
## 1203	0	0	0.03	0.08	0.09	0.15
## 1204	0	0	0.03	0.08	0.09	0.15
## 1205	0	0	0.03	0.08	0.09	0.15
## 1206	0	0	0.04	0.08	0.09	0.15
## 1207	0	0	0.04	0.08	0.09	0.14
## 1208	0	0	0.05	0.08	0.09	0.14
## 1209	0	0	0.03	0.08	0.09	0.15
## 1210	0	0	0.02	0.08	0.09	0.15
## 1211	0	0	0.01	0.07	0.09	0.15
## 1212	0	0	0.03	0.08	0.09	0.15
## 1213	0	0	0.04	0.08	0.09	0.15
## 1214	0	0	0.04	0.08	0.09	0.14
## 1215	0	0	0.04	0.08	0.09	0.14
## 1216	0	0	0.04	0.08	0.09	0.14
## 1217	0	0	0.04	0.08	0.09	0.14

## 1218	0	0	0.04	0.08	0.09	0.14
## 1219	0	0	0.04	0.08	0.09	0.14
## 1220	0	0	0.04	0.08	0.09	0.14
## 1221	0	0	0.04	0.08	0.09	0.14
## 1222	0	0	0.04	0.08	0.09	0.14
## 1223	0	0	0.04	0.08	0.09	0.14
## 1224	0	0	0.04	0.08	0.08	0.14
## 1225	0	0	0.02	0.08	0.08	0.14
## 1226	0	0	0.03	0.08	0.08	0.14
## 1227	0	0	0.04	0.07	0.08	0.14
## 1228	0	0	0.04	0.07	0.08	0.14
## 1229	0	0	0.03	0.07	0.07	0.14
## 1230	0	0	0.02	0.07	0.07	0.14
## 1231	0	0	0.02	0.07	0.08	0.14
## 1232	0	0	0.03	0.07	0.08	0.14
## 1233	0	0	0.04	0.08	0.09	0.14
## 1234	0	0	0.04	0.07	0.08	0.14
## 1235	0	0	0.04	0.07	0.08	0.14
## 1236	0	0	0.04	0.07	0.08	0.14
## 1237	0	0	0.04	0.07	0.08	0.14
## 1238	0	0	0.05	0.07	0.08	0.14
## 1239	0	0	0.04	0.07	0.08	0.14
## 1240	0	0	0.04	0.07	0.08	0.14
## 1241	0	0	0.04	0.07	0.08	0.14
## 1242	0	0	0.04	0.07	0.08	0.14
## 1243	0	0	0.04	0.07	0.07	0.14
## 1244	0	0	0.03	0.07	0.07	0.14
## 1245	0	0	0.03	0.07	0.07	0.14
## 1246	0	0	0.03	0.07	0.07	0.14
## 1247	0	0	0.04	0.07	0.07	0.14
## 1248	0	0	0.03	0.07	0.07	0.14
## 1249	0	0	0.03	0.06	0.07	0.14
## 1250	0	0	0.03	0.07	0.07	0.14
## 1251	0	0	0.03	0.07	0.07	0.14
## 1252	0	0	0.04	0.07	0.07	0.14
## 1253	0	0	0.03	0.07	0.07	0.13
## 1254	0	0	0.04	0.07	0.07	0.14
## 1255	0	0	0.03	0.07	0.07	0.14
## 1256	0	0	0.03	0.07	0.07	0.14
## 1257	0	0	0.03	0.07	0.07	0.13
## 1258	0	0	0.03	0.07	0.07	0.13
## 1259	0	0	0.03	0.07	0.07	0.13
## 1260	0	0	0.03	0.07	0.07	0.13
## 1261	0	0	0.03	0.07	0.07	0.14
## 1262	0	0	0.03	0.07	0.07	0.14
## 1263	0	0	0.03	0.07	0.07	0.13
## 1264	0	0	0.03	0.07	0.07	0.13
## 1265	0	0	0.03	0.07	0.07	0.13
## 1266	0	0	0.04	0.07	0.07	0.12
## 1267	0	0	0.03	0.07	0.07	0.13
## 1268	0	0	0.04	0.07	0.07	0.12
## 1269	0	0	0.04	0.06	0.07	0.11
## 1270	0	0	0.03	0.06	0.07	0.11
## 1271	0	0	0.03	0.06	0.07	0.11

## 1272	0	0	0.01	0.02	0.07	0.14
## 1273	0	0	0.03	0.06	0.08	0.10
## 1274	0	0	0.01	0.01	0.01	0.15
## 1275	0	0	0.01	0.01	0.01	0.15
## 1276	0	0	0.01	0.01	0.01	0.15
## 1277	0	0	0.00	0.01	0.01	0.15
## 1278	0	0	0.00	0.01	0.01	0.15
## 1279	0	0	0.00	0.01	0.01	0.15
## 1280	0	0	0.00	0.01	0.01	0.15
## 1281	0	0	-0.01	0.01	0.01	0.15
## 1282	0	0	0.00	0.01	0.01	0.15
## 1283	0	0	0.00	0.01	0.01	0.15
## 1284	0	0	0.00	0.01	0.01	0.15
## 1285	0	0	0.00	0.01	0.01	0.15
## 1286	0	0	0.00	0.01	0.01	0.15
## 1287	0	0	0.00	0.01	0.01	0.15
## 1288	0	0	0.00	0.01	0.01	0.15
## 1289	0	0	0.00	0.01	0.01	0.15
## 1290	0	0	0.00	0.01	0.01	0.15
## 1291	0	0	0.00	0.01	0.01	0.15
## 1292	0	0	0.00	0.01	0.01	0.15
## 1293	0	0	0.00	0.01	0.01	0.15
## 1294	0	0	0.00	0.01	0.01	0.15
## 1295	0	0	0.00	0.01	0.01	0.15
## 1296	0	0	0.00	0.01	0.01	0.15
## 1297	0	0	0.00	0.01	0.01	0.15
## 1298	0	0	0.00	0.01	0.01	0.15
## 1299	0	0	0.00	0.01	0.01	0.15
## 1300	0	0	0.00	0.01	0.01	0.15
## 1301	0	0	0.00	0.01	0.01	0.15
## 1302	0	0	-0.01	0.01	0.01	0.15
## 1303	0	0	0.00	0.01	0.01	0.15
## 1304	0	0	0.00	0.01	0.01	0.15
## 1305	0	0	0.00	0.01	0.01	0.15
## 1306	0	0	0.00	0.01	0.01	0.15
## 1307	0	0	0.00	0.01	0.01	0.15
## 1308	0	0	-0.01	0.01	0.01	0.15
## 1309	0	0	-0.01	0.01	0.01	0.15
## 1310	0	0	0.00	0.01	0.01	0.15
## 1311	0	0	0.00	0.01	0.01	0.15
## 1312	0	0	-0.01	0.01	0.01	0.15
## 1313	0	0	-0.01	0.01	0.01	0.15
## 1314	0	0	0.00	0.01	0.01	0.15
## 1315	0	0	0.00	0.01	0.01	0.15
## 1316	0	0	0.00	0.01	0.01	0.15
## 1317	0	0	0.00	0.01	0.01	0.15
## 1318	0	0	0.00	0.01	0.01	0.15
## 1319	0	0	0.00	0.01	0.01	0.15
## 1320	0	0	0.00	0.01	0.01	0.15
## 1321	0	0	0.00	0.01	0.01	0.15
## 1322	0	0	0.00	0.01	0.01	0.15
## 1323	0	0	0.00	0.01	0.01	0.15
## 1324	0	0	0.00	0.01	0.01	0.15
## 1325	0	0	0.00	0.01	0.01	0.15



## 1326	0	0	0.02	0.05	0.06	0.15
## 1327	0	0	0.02	0.05	0.06	0.15
## 1328	0	0	0.02	0.05	0.05	0.15
## 1329	0	0	0.02	0.05	0.05	0.15
## 1330	0	0	0.02	0.05	0.05	0.15
## 1331	0	0	0.03	0.05	0.05	0.15
## 1332	0	0	0.02	0.05	0.05	0.15
## 1333	0	0	0.00	0.05	0.05	0.15
## 1334	0	0	0.00	0.05	0.05	0.15
## 1335	0	0	0.01	0.05	0.05	0.15
## 1336	0	0	0.03	0.05	0.05	0.15
## 1337	0	0	0.02	0.05	0.05	0.15
## 1338	0	0	0.03	0.05	0.05	0.15
## 1339	0	0	0.03	0.05	0.05	0.15
## 1340	0	0	0.02	0.05	0.05	0.15
## 1341	0	0	0.02	0.05	0.05	0.15
## 1342	0	0	0.02	0.05	0.05	0.15
## 1343	0	0	0.02	0.05	0.05	0.15
## 1344	0	0	0.02	0.05	0.05	0.15
## 1345	0	0	0.03	0.05	0.05	0.15
## 1346	0	0	0.02	0.05	0.05	0.15
## 1347	0	0	0.02	0.05	0.05	0.15
## 1348	0	0	0.01	0.05	0.05	0.15
## 1349	0	0	0.01	0.05	0.05	0.15
## 1350	0	0	0.02	0.05	0.05	0.15
## 1351	0	0	0.01	0.05	0.05	0.15
## 1352	0	0	0.01	0.05	0.05	0.15
## 1353	0	0	0.01	0.05	0.05	0.15
## 1354	0	0	0.02	0.05	0.05	0.15
## 1355	0	0	0.02	0.05	0.05	0.15
## 1356	0	0	0.02	0.05	0.05	0.15
## 1357	0	0	0.02	0.05	0.05	0.15
## 1358	0	0	0.03	0.05	0.05	0.15
## 1359	0	0	0.03	0.05	0.05	0.15
## 1360	0	0	0.00	0.00	0.00	0.00
## 1361	0	0	0.01	0.05	0.05	0.15
## 1362	0	0	0.02	0.05	0.05	0.15
## 1363	0	0	0.02	0.05	0.05	0.15
## 1364	0	0	0.02	0.05	0.05	0.15
## 1365	0	0	0.02	0.05	0.05	0.15
## 1366	0	0	0.02	0.05	0.05	0.15
## 1367	0	0	0.02	0.05	0.05	0.15
## 1368	0	0	0.02	0.05	0.05	0.15
## 1369	0	0	0.01	0.05	0.05	0.15
## 1370	0	0	0.01	0.05	0.05	0.15
## 1371	0	0	0.01	0.05	0.05	0.15
## 1372	0	0	0.01	0.05	0.05	0.15
## 1373	0	0	0.02	0.05	0.05	0.15
## 1374	0	0	0.02	0.05	0.05	0.15
## 1375	0	0	0.02	0.05	0.05	0.15
## 1376	0	0	0.02	0.05	0.05	0.15
## 1377	0	0	0.02	0.05	0.05	0.15
## 1378	0	0	0.02	0.05	0.05	0.15
## 1379	0	0	0.02	0.05	0.05	0.15

## 1380	0	0	0.01	0.05	0.05	0.15
## 1381	0	0	0.01	0.05	0.05	0.15
## 1382	0	0	0.02	0.05	0.05	0.15
## 1383	0	0	0.02	0.05	0.05	0.15
## 1384	0	0	0.01	0.05	0.05	0.15
## 1385	0	0	0.01	0.05	0.05	0.15
## 1386	0	0	0.01	0.05	0.05	0.15
## 1387	0	0	0.02	0.05	0.05	0.15
## 1388	0	0	0.02	0.05	0.05	0.15
## 1389	0	0	0.01	0.05	0.05	0.15
## 1390	0	0	0.01	0.05	0.05	0.15
## 1391	0	0	0.01	0.05	0.05	0.15
## 1392	0	0	0.01	0.05	0.05	0.15
## 1393	0	0	0.01	0.05	0.05	0.15
## 1394	0	0	0.01	0.05	0.05	0.15
## 1395	0	0	0.02	0.05	0.05	0.15
## 1396	0	0	0.03	0.05	0.05	0.15
## 1397	0	0	0.02	0.05	0.05	0.15
## 1398	0	0	0.01	0.05	0.05	0.15
## 1399	0	0	0.01	0.05	0.05	0.15
## 1400	0	0	0.01	0.05	0.05	0.15
## 1401	0	0	0.02	0.05	0.05	0.15
## 1402	0	0	0.02	0.05	0.05	0.15
## 1403	0	0	0.02	0.05	0.05	0.15
## 1404	0	0	0.01	0.05	0.05	0.15
## 1405	0	0	0.02	0.05	0.05	0.15
## 1406	0	0	0.02	0.05	0.05	0.15
## 1407	0	0	0.02	0.05	0.05	0.15
## 1408	0	0	0.01	0.05	0.05	0.15
## 1409	0	0	0.02	0.05	0.05	0.15
## 1410	0	0	0.01	0.05	0.05	0.15
## 1411	0	0	0.01	0.05	0.05	0.15
## 1412	0	0	0.01	0.05	0.05	0.15
## 1413	0	0	0.01	0.05	0.05	0.15
## 1414	0	0	0.01	0.05	0.05	0.15
## 1415	0	0	0.01	0.05	0.05	0.15
## 1416	0	0	0.01	0.05	0.05	0.15
## 1417	0	0	0.01	0.05	0.05	0.15
## 1418	0	0	0.01	0.05	0.05	0.15
## 1419	0	0	0.01	0.05	0.05	0.15
## 1420	0	0	0.01	0.05	0.05	0.15
## 1421	0	0	0.01	0.05	0.05	0.15
## 1422	0	0	0.01	0.05	0.05	0.15
## 1423	0	0	0.01	0.05	0.05	0.15
## 1424	0	0	0.01	0.05	0.05	0.15
## 1425	0	0	0.01	0.05	0.05	0.15
## 1426	0	0	0.01	0.05	0.05	0.15
## 1427	0	0	0.01	0.05	0.05	0.15
## 1428	0	0	0.01	0.05	0.05	0.15
## 1429	0	0	0.01	0.05	0.05	0.15
## 1430	0	0	0.01	0.05	0.05	0.15
## 1431	0	0	0.01	0.05	0.05	0.15
## 1432	0	0	0.01	0.05	0.05	0.15
## 1433	0	0	0.01	0.05	0.05	0.15

## 1434	0	0	0.01	0.05	0.05	0.15
## 1435	0	0	0.01	0.05	0.05	0.15
## 1436	0	0	0.01	0.05	0.05	0.15
## 1437	0	0	0.01	0.05	0.05	0.15
## 1438	0	0	0.01	0.05	0.05	0.15
## 1439	0	0	0.01	0.05	0.05	0.15
## 1440	0	0	0.01	0.05	0.05	0.15
## 1441	0	0	0.01	0.05	0.05	0.15
## 1442	0	0	0.01	0.05	0.05	0.15
## 1443	0	0	0.01	0.05	0.05	0.15
## 1444	0	0	0.01	0.05	0.05	0.15
## 1445	0	0	0.01	0.05	0.05	0.15
## 1446	0	0	0.01	0.05	0.05	0.15
## 1447	0	0	0.01	0.05	0.05	0.15
## 1448	0	0	0.01	0.05	0.05	0.15
## 1449	0	0	0.01	0.05	0.05	0.15
## 1450	0	0	0.01	0.05	0.05	0.15
## 1451	0	0	0.01	0.05	0.05	0.15
## 1452	0	0	0.01	0.05	0.05	0.15
## 1453	0	0	0.01	0.05	0.05	0.15
## 1454	0	0	0.01	0.05	0.05	0.15
## 1455	0	0	0.01	0.05	0.05	0.15
## 1456	0	0	0.01	0.05	0.05	0.15
## 1457	0	0	0.06	0.07	0.08	0.20
## 1458	0	0	0.06	0.07	0.08	0.20
## 1459	0	0	0.06	0.07	0.08	0.20
## 1460	0	0	0.06	0.07	0.08	0.16
## 1461	0	0	0.05	0.07	0.08	0.10
## 1462	0	0	0.05	0.07	0.09	0.20
## 1463	0	0	0.06	0.08	0.08	0.15
## 1464	0	0	0.06	0.07	0.08	0.10
## 1465	0	0	0.05	0.07	0.08	0.10
## 1466	0	0	0.06	0.07	0.08	0.10
## 1467	0	0	0.06	0.07	0.08	0.10
## 1468	0	0	0.06	0.07	0.08	0.10
## 1469	0	0	0.05	0.07	0.08	0.10
## 1470	0	0	0.05	0.07	0.08	0.10
## 1471	0	0	0.06	0.07	0.08	0.10
## 1472	0	0	0.06	0.07	0.08	0.10
## 1473	0	0	0.06	0.07	0.08	0.16
## 1474	0	0	0.06	0.07	0.08	0.20
## 1475	0	0	0.06	0.07	0.08	0.20
## 1476	0	0	0.06	0.07	0.08	0.20
## 1477	0	0	0.06	0.07	0.08	0.20
## 1478	0	0	0.06	0.07	0.08	0.20
## 1479	0	0	0.06	0.07	0.08	0.20
## 1480	0	0	0.06	0.07	0.08	0.20
## 1481	0	0	0.06	0.07	0.08	0.16
## 1482	0	0	0.05	0.07	0.08	0.10
## 1483	0	0	0.06	0.07	0.08	0.10
## 1484	0	0	0.06	0.07	0.08	0.10
## 1485	0	0	0.06	0.07	0.08	0.20
## 1486	0	0	0.06	0.07	0.08	0.10
## 1487	0	0	0.06	0.07	0.08	0.11

## 1488	0	0	0.06	0.07	0.08	0.11
## 1489	0	0	0.06	0.07	0.08	0.10
## 1490	0	0	0.06	0.07	0.08	0.11
## 1491	0	0	0.06	0.07	0.08	0.11
## 1492	0	0	0.06	0.07	0.08	0.10
## 1493	0	0	0.06	0.07	0.08	0.10
## 1494	0	0	0.06	0.07	0.08	0.11
## 1495	0	0	0.06	0.07	0.08	0.18
## 1496	0	0	0.06	0.07	0.09	0.20
## 1497	0	0	0.06	0.07	0.08	0.20
## 1498	0	0	0.06	0.07	0.08	0.16
## 1499	0	0	0.06	0.07	0.09	0.11
## 1500	0	0	0.06	0.07	0.09	0.17
## 1501	0	0	0.06	0.07	0.09	0.18
## 1502	0	0	0.06	0.08	0.09	0.18
## 1503	0	0	0.06	0.07	0.09	0.11
## 1504	0	0	0.06	0.07	0.09	0.11
## 1505	0	0	0.06	0.07	0.09	0.16
## 1506	0	0	0.06	0.07	0.09	0.17
## 1507	0	0	0.06	0.07	0.08	0.10
## 1508	0	0	0.06	0.07	0.09	0.16
## 1509	0	0	0.06	0.07	0.09	0.10
## 1510	0	0	0.06	0.07	0.08	0.10
## 1511	0	0	0.06	0.07	0.08	0.10
## 1512	0	0	0.06	0.07	0.08	0.10
## 1513	0	0	0.06	0.07	0.09	0.15
## 1514	0	0	0.30	0.32	0.34	0.36
## 1515	0	0	0.31	0.32	0.34	0.40
## 1516	0	0	0.31	0.32	0.34	0.40
## 1517	0	0	0.30	0.32	0.33	0.35
## 1518	0	0	0.31	0.32	0.34	0.34
## 1519	0	0	0.31	0.32	0.34	0.34
## 1520	0	0	0.31	0.32	0.33	0.34
## 1521	0	0	0.31	0.32	0.34	0.36
## 1522	0	0	0.31	0.32	0.34	0.36
## 1523	0	0	0.31	0.32	0.34	0.36
## 1524	0	0	0.30	0.32	0.33	0.40
## 1525	0	0	0.31	0.32	0.33	0.35
## 1526	0	0	0.31	0.32	0.33	0.35
## 1527	0	0	0.31	0.32	0.33	0.35
## 1528	0	0	0.31	0.32	0.33	0.35
## 1529	0	0	0.31	0.32	0.33	0.35
## 1530	0	0	0.31	0.32	0.33	0.35
## 1531	0	0	0.31	0.32	0.33	0.35
## 1532	0	0	0.31	0.32	0.33	0.36
## 1533	0	0	0.31	0.32	0.34	0.35
## 1534	0	0	0.31	0.32	0.34	0.34
## 1535	0	0	0.05	0.28	0.30	0.45
## 1536	0	0	0.05	0.28	0.30	0.45
## 1537	0	0	0.10	0.27	0.30	0.45
## 1538	0	0	0.05	0.27	0.30	0.45
## 1539	0	0	0.05	0.27	0.30	0.45
## 1540	0	0	0.01	0.27	0.30	0.45
## 1541	0	0	0.20	0.27	0.30	0.45

## 1542	0	0	0.10	0.27	0.30	0.45
## 1543	0	0	0.01	0.27	0.30	0.45
## 1544	0	0	0.01	0.27	0.30	0.45
## 1545	0	0	0.10	0.28	0.30	0.45
## 1546	0	0	0.05	0.28	0.30	0.45
## 1547	0	0	0.15	0.28	0.30	0.45
## 1548	0	0	0.45	0.78	0.80	0.95
## 1549	0	0	0.72	0.77	0.80	0.95
## 1550	0	0	0.65	0.77	0.80	0.95
## 1551	0	0	0.71	0.77	0.80	0.95
## 1552	0	0	0.60	0.77	0.80	0.95
## 1553	0	0	0.40	0.77	0.80	0.95
## 1554	0	0	0.55	0.77	0.80	0.95
## 1555	0	0	0.40	0.78	0.80	0.95
## 1556	0	0	0.40	0.78	0.80	0.95
## 1557	0	0	0.71	0.77	0.80	0.95
## 1558	0	0	0.40	0.77	0.80	0.95
## 1559	0	0	0.40	0.77	0.80	0.95
## 1560	0	0	0.40	0.77	0.80	0.95
## 1561	0	0	0.70	0.77	0.80	0.95
## 1562	0	0	0.65	0.77	0.80	0.95
## 1563	0	0	0.30	0.77	0.80	0.95
## 1564	0	0	0.65	0.77	0.80	0.95
## 1565	0	0	0.30	0.77	0.80	0.95
## 1566	0	0	0.65	0.77	0.80	0.95
## 1567	0	0	0.50	0.77	0.80	0.95
## 1568	0	0	0.70	0.77	0.80	0.95
## 1569	0	0	0.65	0.77	0.80	0.95
## 1570	0	0	0.60	0.76	0.80	0.95
## 1571	0	0	0.60	0.75	0.80	0.95
## 1572	0	0	0.30	0.75	0.80	0.95
## 1573	0	0	0.25	0.75	0.80	0.95
## 1574	0	0	0.50	0.73	0.80	0.95
## 1575	0	0	0.15	0.69	0.80	0.95
## 1576	0	0	0.50	0.68	0.80	0.95
## 1577	0	0	0.71	1.44	1.55	1.70
## 1578	0	0	1.30	1.44	1.55	1.70
## 1579	0	0	0.75	1.43	1.55	1.70
## 1580	0	0	0.75	1.43	1.55	1.70
## 1581	0	0	1.00	1.43	1.55	1.70
## 1582	0	0	1.35	1.43	1.55	1.70
## 1583	0	0	0.75	1.47	1.54	1.70
## 1584	0	0	1.00	1.50	1.55	1.70
## 1585	0	0	1.30	1.49	1.54	1.70
## 1586	0	0	0.10	1.46	1.52	1.70
## 1587	0	0	1.00	1.48	1.53	1.70
## 1588	0	0	0.75	1.49	1.54	1.70
## 1589	0	0	1.43	1.50	1.55	1.70
## 1590	0	0	1.43	1.49	1.55	1.70
## 1591	0	0	1.42	1.50	1.55	1.70
## 1592	0	0	1.37	1.49	1.54	1.70
## 1593	0	0	1.43	1.49	1.54	1.70
## 1594	0	0	1.25	1.49	1.55	1.70
## 1595	0	0	1.43	1.49	1.54	1.70

## 1596	0	0	1.43	1.49	1.54	1.70
## 1597	0	0	1.43	1.50	1.55	1.70
## 1598	0	0	1.43	1.50	1.55	1.70
## 1599	0	0	1.00	1.50	1.55	1.70
## 1600	0	0	0.75	1.50	1.53	1.70
## 1601	0	0	1.43	1.49	1.54	1.70
## 1602	0	0	1.13	1.49	1.53	1.70
## 1603	0	0	1.42	1.49	1.53	1.70
## 1604	0	0	1.00	1.49	1.54	1.70
## 1605	0	0	1.54	2.24	2.28	2.45
## 1606	0	0	2.18	2.24	2.28	2.45
## 1607	0	0	0.75	2.24	2.28	2.45
## 1608	0	0	2.18	2.25	2.30	2.45
## 1609	0	0	0.75	2.26	2.30	2.45
## 1610	0	0	2.18	2.25	2.30	2.45
## 1611	0	0	2.15	2.25	2.30	2.45
## 1612	0	0	2.18	2.25	2.29	2.45
## 1613	0	0	2.18	2.25	2.30	2.45
## 1614	0	0	2.18	2.25	2.30	2.45
## 1615	0	0	2.15	2.25	2.30	2.45
## 1616	0	0	2.16	2.25	2.29	2.45
## 1617	0	0	2.16	2.25	2.29	2.45
## 1618	0	0	2.18	2.25	2.30	2.45
## 1619	0	0	2.15	2.25	2.30	2.45
## 1620	0	0	1.25	2.25	2.30	2.45
## 1621	0	0	2.15	2.25	2.29	2.45
## 1622	0	0	0.50	2.25	2.29	2.45
## 1623	0	0	2.15	2.25	2.29	2.45
## 1624	0	0	2.14	2.25	2.28	2.45
## 1625	0	0	2.18	2.25	2.28	2.45
## 1626	0	0	2.10	2.25	2.30	2.45
## 1627	0	0	2.18	2.25	2.29	2.45
## 1628	0	0	2.18	2.25	2.29	2.45
## 1629	0	0	1.00	2.25	2.30	2.45
## 1630	0	0	2.18	2.25	2.30	2.45
## 1631	0	0	2.18	2.25	2.30	2.45
## 1632	0	0	1.68	2.25	2.30	2.45
## 1633	0	0	2.15	2.25	2.30	2.45
## 1634	0	0	2.15	2.25	2.29	2.45
## 1635	0	0	2.18	2.25	2.29	2.45
## 1636	0	0	2.15	2.25	2.29	2.45
## 1637	0	0	1.00	2.25	2.30	2.45
## 1638	0	0	2.18	2.25	2.29	2.45
## 1639	0	0	1.00	2.25	2.28	2.45
## 1640	0	0	1.90	2.25	2.29	2.45
## 1641	0	0	1.00	2.25	2.28	2.45
## 1642	0	0	1.00	2.24	2.27	2.45
## 1643	0	0	2.00	2.23	2.27	2.45
## 1644	0	0	1.50	2.97	3.00	3.20
## 1645	0	0	2.85	2.97	3.00	3.20
## 1646	0	0	1.50	2.97	3.00	3.20
## 1647	0	0	1.50	2.97	3.00	3.20
## 1648	0	0	2.75	2.96	3.00	3.20
## 1649	0	0	2.85	2.94	3.00	3.20

## 1650	0	0	1.50	2.95	3.00	3.20
## 1651	0	0	2.90	2.96	3.05	3.20
## 1652	0	0	2.93	2.98	3.03	3.20
## 1653	0	0	2.93	2.99	3.05	3.20
## 1654	0	0	2.93	2.99	3.05	3.20
## 1655	0	0	2.93	3.00	3.05	3.20
## 1656	0	0	2.93	3.00	3.05	3.20
## 1657	0	0	2.92	3.00	3.03	3.20
## 1658	0	0	2.90	3.00	3.05	3.20
## 1659	0	0	2.93	3.00	3.05	3.20
## 1660	0	0	2.85	3.00	3.05	3.20
## 1661	0	0	2.93	3.00	3.05	3.20
## 1662	0	0	2.93	2.99	3.03	3.20
## 1663	0	0	1.50	2.99	3.03	3.20
## 1664	0	0	2.92	2.98	3.01	3.20
## 1665	0	0	2.91	2.98	3.01	3.20
## 1666	0	0	2.91	2.98	3.02	3.20
## 1667	0	0	2.91	2.98	3.01	3.20
## 1668	0	0	2.92	2.98	3.04	3.20
## 1669	0	0	2.93	2.99	3.04	3.20
## 1670	0	0	2.90	3.00	3.05	3.20
## 1671	0	0	2.93	3.00	3.05	3.20
## 1672	0	0	2.90	3.00	3.05	3.20
## 1673	0	0	3.06	3.75	3.78	3.95
## 1674	0	0	3.70	3.75	3.78	3.95
## 1675	0	0	3.68	3.75	3.77	3.95
## 1676	0	0	3.68	3.74	3.76	3.95
## 1677	0	0	3.68	3.74	3.76	3.95
## 1678	0	0	3.69	3.74	3.77	3.95
## 1679	0	0	3.70	3.74	3.79	3.95
## 1680	0	0	3.65	3.75	3.80	3.95
## 1681	0	0	3.70	3.76	3.80	3.95
## 1682	0	0	3.70	3.76	3.80	3.95
## 1683	0	0	3.70	3.75	3.80	3.95
## 1684	0	0	3.68	3.75	3.80	3.95
## 1685	0	0	3.70	3.75	3.80	3.95
## 1686	0	0	3.67	3.75	3.80	3.95
## 1687	0	0	3.70	3.75	3.80	3.95
## 1688	0	0	3.69	3.75	3.80	3.95
## 1689	0	0	3.70	3.76	3.80	3.95
## 1690	0	0	3.68	3.77	3.80	3.95
## 1691	0	0	3.72	3.77	3.80	3.95
## 1692	0	0	3.70	3.77	3.80	3.95
## 1693	0	0	3.70	3.77	3.80	3.95
## 1694	0	0	3.70	3.76	3.80	3.95
## 1695	0	0	3.70	3.75	3.80	3.95
## 1696	0	0	3.70	3.75	3.80	3.95
## 1697	0	0	3.65	3.75	3.80	3.95
## 1698	0	0	3.71	3.75	3.80	3.95
## 1699	0	0	3.68	3.75	3.80	3.95
## 1700	0	0	3.70	3.75	3.80	3.95
## 1701	0	0	3.81	4.25	4.30	4.45
## 1702	0	0	4.22	4.27	4.30	4.45
## 1703	0	0	4.20	4.26	4.30	4.45

## 1704	0	0	2.50	4.25	4.30	4.45	
## 1705	0	0	4.20	4.25	4.30	4.45	
## 1706	0	0	2.75	4.25	4.30	4.45	
## 1707	0	0	4.20	4.25	4.30	4.45	
## 1708	0	0	2.50	4.25	4.30	4.45	
## 1709	0	0	4.10	4.25	4.30	4.45	
## 1710	0	0	2.50	4.25	4.30	4.45	
##	BGCR	VolumeBGCR	TargetD	TargetU	PercentileB1	PercentileB25	PercentileB75
## 1	0.34	704	0	0	0.00	0.00	0.00
## 2	0.32	700	0	0	0.00	0.00	0.00
## 3	0.35	685	0	0	0.00	0.00	0.00
## 4	0.36	661	0	0	0.00	0.00	0.00
## 5	0.36	662	0	0	0.00	0.00	0.00
## 6	0.40	680	0	0	0.00	0.00	0.00
## 7	0.37	699	0	0	0.00	0.00	0.00
## 8	0.37	680	0	0	0.00	0.00	0.00
## 9	0.34	677	0	0	0.00	0.00	0.00
## 10	0.30	682	0	0	0.00	0.00	0.00
## 11	0.27	669	0	0	0.00	0.00	0.00
## 12	0.29	649	0	0	0.00	0.00	0.00
## 13	0.37	653	0	0	0.00	0.00	0.00
## 14	0.38	632	0	0	0.00	0.00	0.00
## 15	0.38	632	0	0	0.00	0.00	0.00
## 16	0.38	632	0	0	0.00	0.00	0.00
## 17	0.35	634	0	0	0.00	0.00	0.00
## 18	0.42	623	0	0	0.00	0.00	0.00
## 19	0.40	590	0	0	0.00	0.00	0.00
## 20	0.37	655	0	0	0.00	0.00	0.00
## 21	0.35	661	0	0	0.00	0.00	0.00
## 22	0.34	662	0	0	0.00	0.00	0.00
## 23	0.35	664	0	0	0.00	0.00	0.00
## 24	0.35	657	0	0	0.00	0.00	0.00
## 25	0.36	647	0	0	0.00	0.00	0.00
## 26	0.35	659	0	0	0.00	0.00	0.00
## 27	0.35	659	0	0	0.00	0.00	0.00
## 28	0.35	665	0	0	0.00	0.00	0.00
## 29	0.39	651	0	0	0.00	0.00	0.00
## 30	0.37	657	0	0	0.00	0.00	0.00
## 31	0.31	656	0	0	0.00	0.00	0.00
## 32	0.30	669	0	0	0.00	0.00	0.00
## 33	0.30	650	0	0	0.00	0.00	0.00
## 34	0.36	657	0	0	0.00	0.00	0.00
## 35	0.32	667	0	0	0.00	0.00	0.00
## 36	0.30	684	0	0	0.00	0.00	0.00
## 37	0.29	657	0	0	0.00	0.00	0.00
## 38	0.28	665	0	0	0.00	0.00	0.00
## 39	0.31	655	0	0	0.00	0.00	0.00
## 40	0.30	646	0	0	0.00	0.00	0.00
## 41	0.31	692	0	0	0.00	0.00	0.00
## 42	0.31	685	0	0	0.00	0.00	0.00
## 43	0.33	663	0	0	0.00	0.00	0.00
## 44	0.35	677	0	0	0.00	0.00	0.00
## 45	0.35	675	0	0	0.00	0.00	0.00
## 46	0.35	674	0	0	0.00	0.00	0.00



## 47	0.35	667	0	0	0.00	0.00	0.00
## 48	0.35	666	0	0	0.00	0.00	0.00
## 49	0.35	684	0	0	0.00	0.00	0.00
## 50	0.38	673	0	0	0.00	0.00	0.00
## 51	0.37	682	0	0	0.00	0.00	0.00
## 52	0.34	697	0	0	0.00	0.00	0.00
## 53	0.30	669	0	0	0.00	0.00	0.00
## 54	0.28	688	0	0	0.00	0.00	0.00
## 55	0.26	648	0	0	0.00	0.00	0.00
## 56	0.32	668	0	0	0.00	0.00	0.00
## 57	0.28	665	0	0	0.00	0.00	0.00
## 58	0.30	684	0	0	0.00	0.00	0.00
## 59	0.26	681	0	0	0.00	0.00	0.00
## 60	0.35	679	0	0	0.00	0.00	0.00
## 61	0.34	683	0	0	0.00	0.00	0.00
## 62	0.34	698	0	0	0.00	0.00	0.00
## 63	0.34	692	0	0	0.00	0.00	0.00
## 64	0.35	678	0	0	0.00	0.00	0.00
## 65	0.36	700	0	0	0.00	0.00	0.00
## 66	0.38	683	0	0	0.00	0.00	0.00
## 67	0.37	689	0	0	0.00	0.00	0.00
## 68	0.40	682	0	0	0.00	0.00	0.00
## 69	0.40	698	0	0	0.00	0.00	0.00
## 70	0.38	691	0	0	0.00	0.00	0.00
## 71	0.42	675	0	0	0.00	0.00	0.00
## 72	0.43	688	0	0	0.00	0.00	0.00
## 73	0.41	704	0	0	0.00	0.00	0.00
## 74	0.39	675	0	0	0.00	0.00	0.00
## 75	0.40	682	0	0	0.00	0.00	0.00
## 76	0.42	653	0	0	0.00	0.00	0.00
## 77	0.49	632	0	0	0.00	0.00	0.00
## 78	0.55	649	0	0	0.00	0.00	0.00
## 79	0.58	641	0	0	0.00	0.00	0.00
## 80	0.55	665	0	0	0.00	0.00	0.00
## 81	0.49	662	0	0	0.00	0.00	0.00
## 82	0.63	645	0	0	0.00	0.00	0.00
## 83	0.47	598	0	0	0.00	0.00	0.00
## 84	0.40	695	0	0	0.00	0.00	0.00
## 85	0.36	674	0	0	0.00	0.00	0.00
## 86	0.39	687	0	0	0.00	0.00	0.00
## 87	0.43	692	0	0	0.00	0.00	0.00
## 88	0.41	690	0	0	0.00	0.00	0.00
## 89	0.39	703	0	0	0.00	0.00	0.00
## 90	0.38	698	0	0	0.00	0.00	0.00
## 91	0.39	684	0	0	0.00	0.00	0.00
## 92	0.41	680	0	0	0.00	0.00	0.00
## 93	0.37	673	0	0	0.00	0.00	0.00
## 94	0.34	678	0	0	0.00	0.00	0.00
## 95	0.32	674	0	0	0.00	0.00	0.00
## 96	1.01	761	0	0	0.00	0.00	0.00
## 97	0.37	678	0	0	0.00	0.00	0.00
## 98	0.35	673	0	0	0.00	0.00	0.00
## 99	0.34	667	0	0	0.00	0.00	0.00
## 100	0.34	664	0	0	0.00	0.00	0.00

## 101	0.35	745	0	0	0.00	0.00	0.00
## 102	0.35	713	0	0	0.00	0.00	0.00
## 103	0.42	755	0	0	0.00	0.00	0.00
## 104	1.01	767	0	0	0.00	0.00	0.00
## 105	1.01	748	0	0	0.00	0.00	0.00
## 106	1.01	763	0	0	0.00	0.00	0.00
## 107	0.41	693	0	0	0.00	0.00	0.00
## 108	0.37	685	0	0	0.00	0.00	0.00
## 109	0.35	683	0	0	0.00	0.00	0.00
## 110	0.35	699	0	0	0.00	0.00	0.00
## 111	0.38	682	0	0	0.00	0.00	0.00
## 112	0.40	677	0	0	0.00	0.00	0.00
## 113	0.41	681	0	0	0.00	0.00	0.00
## 114	0.40	695	0	0	0.00	0.00	0.00
## 115	0.39	692	0	0	0.00	0.00	0.00
## 116	0.40	693	0	0	0.00	0.00	0.00
## 117	0.40	693	0	0	0.00	0.00	0.00
## 118	0.34	687	0	0	0.00	0.00	0.00
## 119	0.30	704	0	0	0.00	0.00	0.00
## 120	0.35	685	0	0	0.00	0.00	0.00
## 121	0.34	682	0	0	0.00	0.00	0.00
## 122	0.39	677	0	0	0.00	0.00	0.00
## 123	0.38	676	0	0	0.00	0.00	0.00
## 124	0.39	678	0	0	0.00	0.00	0.00
## 125	0.46	665	0	0	0.00	0.00	0.00
## 126	0.43	692	0	0	0.00	0.00	0.00
## 127	0.41	709	0	0	0.00	0.00	0.00
## 128	0.40	715	0	0	0.00	0.00	0.00
## 129	0.35	708	0	0	0.00	0.00	0.00
## 130	0.38	698	0	0	0.00	0.00	0.00
## 131	0.42	708	0	0	0.00	0.00	0.00
## 132	0.40	707	0	0	0.00	0.00	0.00
## 133	0.40	724	0	0	0.00	0.00	0.00
## 134	0.40	716	0	0	0.00	0.00	0.00
## 135	0.42	739	0	0	0.00	0.00	0.00
## 136	0.37	727	0	0	0.00	0.00	0.00
## 137	0.35	738	0	0	0.00	0.00	0.00
## 138	0.34	732	0	0	0.00	0.00	0.00
## 139	0.34	728	0	0	0.00	0.00	0.00
## 140	0.35	712	0	0	0.00	0.00	0.00
## 141	0.43	721	0	0	0.00	0.00	0.00
## 142	0.43	690	0	0	0.00	0.00	0.00
## 143	0.54	693	0	0	0.00	0.00	0.00
## 144	0.64	676	0	0	0.00	0.00	0.00
## 145	0.70	654	0	0	0.00	0.00	0.00
## 146	0.89	661	0	0	0.00	0.00	0.00
## 147	0.45	614	0	0	0.00	0.00	0.00
## 148	0.55	676	0	0	0.00	0.00	0.00
## 149	0.50	678	0	0	0.00	0.00	0.00
## 150	0.44	680	0	0	0.00	0.00	0.00
## 151	0.40	702	0	0	0.00	0.00	0.00
## 152	0.36	692	0	0	0.00	0.00	0.00
## 153	0.37	689	0	0	0.00	0.00	0.00
## 154	0.40	700	0	0	0.00	0.00	0.00

## 155	0.38	731	0	0	0.00	0.00	0.00
## 156	0.40	694	0	0	0.00	0.00	0.00
## 157	0.35	708	0	0	0.00	0.00	0.00
## 158	0.30	714	0	0	0.00	0.00	0.00
## 159	0.32	693	0	0	0.00	0.00	0.00
## 160	0.29	704	0	0	0.00	0.00	0.00
## 161	0.35	701	0	0	0.00	0.00	0.00
## 162	0.34	701	0	0	0.00	0.00	0.00
## 163	0.38	726	0	0	0.00	0.00	0.00
## 164	0.40	710	0	0	0.00	0.00	0.00
## 165	0.36	705	0	0	0.00	0.00	0.00
## 166	0.43	713	0	0	0.00	0.00	0.00
## 167	0.35	720	0	0	0.00	0.00	0.00
## 168	0.34	718	0	0	0.00	0.00	0.00
## 169	0.40	708	0	0	0.00	0.00	0.00
## 170	0.38	725	0	0	0.00	0.00	0.00
## 171	0.35	722	0	0	0.00	0.00	0.00
## 172	0.34	705	0	0	0.00	0.00	0.00
## 173	0.36	697	0	0	0.00	0.00	0.00
## 174	0.39	686	0	0	0.00	0.00	0.00
## 175	0.35	710	0	0	0.00	0.00	0.00
## 176	0.34	746	0	0	0.00	0.00	0.00
## 177	0.31	739	0	0	0.00	0.00	0.00
## 178	0.28	708	0	0	0.00	0.00	0.00
## 179	0.27	735	0	0	0.00	0.00	0.00
## 180	0.26	722	0	0	0.00	0.00	0.00
## 181	0.25	739	0	0	0.00	0.00	0.00
## 182	0.26	719	0	0	0.00	0.00	0.00
## 183	0.27	663	0	0	0.00	0.00	0.00
## 184	0.26	659	0	0	0.00	0.00	0.00
## 185	0.26	717	0	0	0.00	0.00	0.00
## 186	0.27	669	0	0	0.00	0.00	0.00
## 187	0.26	695	0	0	0.00	0.00	0.00
## 188	0.26	696	0	0	0.00	0.00	0.00
## 189	0.26	670	0	0	0.00	0.00	0.00
## 190	0.26	688	0	0	0.00	0.00	0.00
## 191	0.26	680	0	0	0.00	0.00	0.00
## 192	0.26	678	0	0	0.00	0.00	0.00
## 193	0.30	665	0	0	0.00	0.00	0.00
## 194	0.30	674	0	0	0.00	0.00	0.00
## 195	0.28	683	0	0	0.00	0.00	0.00
## 196	0.26	691	0	0	0.00	0.00	0.00
## 197	0.50	704	0	0	0.00	0.00	0.00
## 198	0.51	666	0	0	0.00	0.00	0.00
## 199	0.50	686	0	0	0.00	0.00	0.00
## 200	0.48	686	0	0	0.00	0.00	0.00
## 201	0.46	660	0	0	0.00	0.00	0.00
## 202	0.46	597	0	0	0.00	0.00	0.00
## 203	0.50	605	0	0	0.00	0.00	0.00
## 204	0.52	580	0	0	0.00	0.00	0.00
## 205	0.54	589	0	0	0.00	0.00	0.00
## 206	0.51	602	0	0	0.00	0.00	0.00
## 207	0.48	591	0	0	0.00	0.00	0.00
## 208	0.50	554	0	0	0.00	0.00	0.00

## 209	0.55	645	0	0	0.00	0.00	0.00
## 210	0.53	635	0	0	0.00	0.00	0.00
## 211	0.53	651	0	0	0.00	0.00	0.00
## 212	0.52	644	0	0	0.00	0.00	0.00
## 213	0.50	667	0	0	0.00	0.00	0.00
## 214	0.51	649	0	0	0.00	0.00	0.00
## 215	0.52	646	0	0	0.00	0.00	0.00
## 216	0.55	651	0	0	0.00	0.00	0.00
## 217	0.59	680	0	0	0.00	0.00	0.00
## 218	0.62	692	0	0	0.00	0.00	0.00
## 219	0.52	694	0	0	0.00	0.00	0.00
## 220	0.51	674	0	0	0.00	0.00	0.00
## 221	0.50	661	0	0	0.00	0.00	0.00
## 222	0.53	656	0	0	0.00	0.00	0.00
## 223	0.53	655	0	0	0.00	0.00	0.00
## 224	0.53	657	0	0	0.00	0.00	0.00
## 225	0.54	663	0	0	0.00	0.00	0.00
## 226	0.53	666	0	0	0.00	0.00	0.00
## 227	0.60	685	0	0	0.00	0.00	0.00
## 228	0.56	693	0	0	0.00	0.00	0.00
## 229	0.54	688	0	0	0.00	0.00	0.00
## 230	0.54	700	0	0	0.00	0.00	0.00
## 231	0.53	663	0	0	0.00	0.00	0.00
## 232	0.51	683	0	0	0.00	0.00	0.00
## 233	0.51	687	0	0	0.00	0.00	0.00
## 234	0.55	677	0	0	0.00	0.00	0.00
## 235	0.54	683	0	0	0.00	0.00	0.00
## 236	0.53	717	0	0	0.00	0.00	0.00
## 237	0.52	699	0	0	0.00	0.00	0.00
## 238	0.55	687	0	0	0.00	0.00	0.00
## 239	0.52	705	0	0	0.00	0.00	0.00
## 240	0.51	706	0	0	0.00	0.00	0.00
## 241	0.50	672	0	0	0.00	0.00	0.00
## 242	0.50	679	0	0	0.00	0.00	0.00
## 243	0.50	668	0	0	0.00	0.00	0.00
## 244	0.51	663	0	0	0.00	0.00	0.00
## 245	0.51	716	0	0	0.00	0.00	0.00
## 246	0.53	695	0	0	0.00	0.00	0.00
## 247	0.50	697	0	0	0.00	0.00	0.00
## 248	0.35	692	0	0	0.00	0.00	0.00
## 249	0.37	681	0	0	0.00	0.00	0.00
## 250	0.35	692	0	0	0.00	0.00	0.00
## 251	0.50	689	0	0	0.00	0.00	0.00
## 252	0.50	673	0	0	0.00	0.00	0.00
## 253	0.50	674	0	0	0.00	0.00	0.00
## 254	0.50	678	0	0	0.00	0.00	0.00
## 255	0.50	685	0	0	0.00	0.00	0.00
## 256	0.52	676	0	0	0.00	0.00	0.00
## 257	0.53	662	0	0	0.00	0.00	0.00
## 258	0.77	729	0	0	0.00	0.00	0.00
## 259	0.75	737	0	0	0.00	0.00	0.00
## 260	0.75	676	0	0	0.00	0.00	0.00
## 261	0.75	670	0	0	0.00	0.00	0.00
## 262	0.75	665	0	0	0.00	0.00	0.00

## 263	0.76	661	0	0	0.00	0.00	0.00
## 264	0.77	670	0	0	0.00	0.00	0.00
## 265	0.76	672	0	0	0.00	0.00	0.00
## 266	0.76	681	0	0	0.00	0.00	0.00
## 267	0.76	637	0	0	0.00	0.00	0.00
## 268	0.78	621	0	0	0.00	0.00	0.00
## 269	0.85	663	0	0	0.00	0.00	0.00
## 270	0.78	614	0	0	0.00	0.00	0.00
## 271	0.77	683	0	0	0.00	0.00	0.00
## 272	0.78	686	0	0	0.00	0.00	0.00
## 273	0.81	689	0	0	0.00	0.00	0.00
## 274	0.82	723	0	0	0.00	0.00	0.00
## 275	0.80	724	0	0	0.00	0.00	0.00
## 276	0.79	748	0	0	0.00	0.00	0.00
## 277	0.80	725	0	0	0.00	0.00	0.00
## 278	0.86	718	0	0	0.00	0.00	0.00
## 279	0.88	728	0	0	0.00	0.00	0.00
## 280	0.86	762	0	0	0.00	0.00	0.00
## 281	0.86	762	0	0	0.00	0.00	0.00
## 282	0.80	741	0	0	0.00	0.00	0.00
## 283	0.76	751	0	0	0.00	0.00	0.00
## 284	0.76	724	0	0	0.00	0.00	0.00
## 285	0.80	700	0	0	0.00	0.00	0.00
## 286	0.80	737	0	0	0.00	0.00	0.00
## 287	0.80	749	0	0	0.00	0.00	0.00
## 288	0.83	745	0	0	0.00	0.00	0.00
## 289	0.90	756	0	0	0.00	0.00	0.00
## 290	0.83	737	0	0	0.00	0.00	0.00
## 291	0.79	762	0	0	0.00	0.00	0.00
## 292	0.78	783	0	0	0.00	0.00	0.00
## 293	0.79	772	0	0	0.00	0.00	0.00
## 294	0.80	756	0	0	0.00	0.00	0.00
## 295	0.78	745	0	0	0.00	0.00	0.00
## 296	0.77	754	0	0	0.00	0.00	0.00
## 297	0.76	777	0	0	0.00	0.00	0.00
## 298	0.77	725	0	0	0.00	0.00	0.00
## 299	0.76	752	0	0	0.00	0.00	0.00
## 300	0.80	737	0	0	0.00	0.00	0.00
## 301	0.78	802	0	0	0.00	0.00	0.00
## 302	0.79	776	0	0	0.00	0.00	0.00
## 303	0.78	774	0	0	0.00	0.00	0.00
## 304	0.77	785	0	0	0.00	0.00	0.00
## 305	0.76	805	0	0	0.00	0.00	0.00
## 306	0.76	775	0	0	0.00	0.00	0.00
## 307	0.79	743	0	0	0.00	0.00	0.00
## 308	0.82	754	0	0	0.00	0.00	0.00
## 309	0.85	770	0	0	0.00	0.00	0.00
## 310	0.82	765	0	0	0.00	0.00	0.00
## 311	0.90	761	0	0	0.00	0.00	0.00
## 312	0.87	767	0	0	0.00	0.00	0.00
## 313	0.85	803	0	0	0.00	0.00	0.00
## 314	0.85	788	0	0	0.00	0.00	0.00
## 315	0.84	800	0	0	0.00	0.00	0.00
## 316	0.85	796	0	0	0.00	0.00	0.00

## 317	0.88	798	0	0	0.00	0.00	0.00
## 318	0.89	805	0	0	0.00	0.00	0.00
## 319	0.89	795	0	0	0.00	0.00	0.00
## 320	0.90	820	0	0	0.00	0.00	0.00
## 321	0.93	792	0	0	0.00	0.00	0.00
## 322	1.17	775	0	0	0.00	0.00	0.00
## 323	1.17	813	0	0	0.00	0.00	0.00
## 324	1.12	797	0	0	0.00	0.00	0.00
## 325	1.05	810	0	0	0.00	0.00	0.00
## 326	1.02	791	0	0	0.00	0.00	0.00
## 327	1.02	789	0	0	0.00	0.00	0.00
## 328	1.06	787	0	0	0.00	0.00	0.00
## 329	1.05	770	0	0	0.00	0.00	0.00
## 330	1.03	782	0	0	0.00	0.00	0.00
## 331	1.04	736	0	0	0.00	0.00	0.00
## 332	1.07	703	0	0	0.00	0.00	0.00
## 333	1.20	712	0	0	0.00	0.00	0.00
## 334	1.10	661	0	0	0.00	0.00	0.00
## 335	1.05	732	0	0	0.00	0.00	0.00
## 336	1.03	764	0	0	0.00	0.00	0.00
## 337	1.01	784	0	0	0.00	0.00	0.00
## 338	1.01	740	0	0	0.00	0.00	0.00
## 339	1.01	755	0	0	0.00	0.00	0.00
## 340	1.01	736	0	0	0.00	0.00	0.00
## 341	1.02	716	0	0	0.00	0.00	0.00
## 342	1.02	741	0	0	0.00	0.00	0.00
## 343	1.04	727	0	0	0.00	0.00	0.00
## 344	1.02	757	0	0	0.00	0.00	0.00
## 345	1.01	744	0	0	0.00	0.00	0.00
## 346	1.02	753	0	0	0.00	0.00	0.00
## 347	1.01	761	0	0	0.00	0.00	0.00
## 348	1.05	753	0	0	0.00	0.00	0.00
## 349	1.04	757	0	0	0.00	0.00	0.00
## 350	1.04	753	0	0	0.00	0.00	0.00
## 351	1.04	737	0	0	0.00	0.00	0.00
## 352	1.03	745	0	0	0.00	0.00	0.00
## 353	1.08	713	0	0	0.00	0.00	0.00
## 354	1.03	755	0	0	0.00	0.00	0.00
## 355	1.01	767	0	0	0.00	0.00	0.00
## 356	1.01	748	0	0	0.00	0.00	0.00
## 357	1.01	763	0	0	0.00	0.00	0.00
## 358	1.01	746	0	0	0.00	0.00	0.00
## 359	1.01	752	0	0	0.00	0.00	0.00
## 360	1.01	747	0	0	0.00	0.00	0.00
## 361	1.03	749	0	0	0.00	0.00	0.00
## 362	1.05	771	0	0	0.00	0.00	0.00
## 363	1.08	777	0	0	0.00	0.00	0.00
## 364	1.11	796	0	0	0.00	0.00	0.00
## 365	1.09	804	0	0	0.00	0.00	0.00
## 366	1.09	780	0	0	0.00	0.00	0.00
## 367	1.06	793	0	0	0.00	0.00	0.00
## 368	1.04	799	0	0	0.00	0.00	0.00
## 369	1.02	788	0	0	0.00	0.00	0.00
## 370	1.02	762	0	0	0.00	0.00	0.00

## 371	1.08	754	0	0	0.00	0.00	0.00
## 372	1.05	763	0	0	0.00	0.00	0.00
## 373	1.05	775	0	0	0.00	0.00	0.00
## 374	1.03	769	0	0	0.00	0.00	0.00
## 375	1.03	771	0	0	0.00	0.00	0.00
## 376	1.14	747	0	0	0.00	0.00	0.00
## 377	1.09	761	0	0	0.00	0.00	0.00
## 378	1.05	782	0	0	0.00	0.00	0.00
## 379	1.03	781	0	0	0.00	0.00	0.00
## 380	1.04	769	0	0	0.00	0.00	0.00
## 381	1.04	772	0	0	0.00	0.00	0.00
## 382	1.04	774	0	0	0.00	0.00	0.00
## 383	1.05	774	0	0	0.00	0.00	0.00
## 384	1.05	769	0	0	0.00	0.00	0.00
## 385	1.09	777	0	0	0.00	0.00	0.00
## 386	1.10	777	0	0	0.00	0.00	0.00
## 387	1.04	792	0	0	0.00	0.00	0.00
## 388	1.01	796	0	0	0.00	0.00	0.00
## 389	1.01	778	0	0	0.00	0.00	0.00
## 390	1.01	745	0	0	0.00	0.00	0.00
## 391	1.02	783	0	0	0.00	0.00	0.00
## 392	1.01	749	0	0	0.00	0.00	0.00
## 393	1.01	743	0	0	0.00	0.00	0.00
## 394	1.01	738	0	0	0.00	0.00	0.00
## 395	1.01	703	0	0	0.00	0.00	0.00
## 396	1.10	715	0	0	0.00	0.00	0.00
## 397	1.03	688	0	0	0.00	0.00	0.00
## 398	1.02	793	0	0	0.00	0.00	0.00
## 399	1.02	742	0	0	0.00	0.00	0.00
## 400	1.03	753	0	0	0.00	0.00	0.00
## 401	1.03	777	0	0	0.00	0.00	0.00
## 402	1.03	764	0	0	0.00	0.00	0.00
## 403	1.03	781	0	0	0.00	0.00	0.00
## 404	1.03	778	0	0	0.00	0.00	0.00
## 405	1.02	785	0	0	0.00	0.00	0.00
## 406	1.06	770	0	0	0.00	0.00	0.00
## 407	1.05	794	0	0	0.00	0.00	0.00
## 408	1.05	772	0	0	0.00	0.00	0.00
## 409	1.05	758	0	0	0.00	0.00	0.00
## 410	1.08	768	0	0	0.00	0.00	0.00
## 411	1.08	758	0	0	0.00	0.00	0.00
## 412	1.07	784	0	0	0.00	0.00	0.00
## 413	0.34	701	0	0	0.00	0.00	0.00
## 414	0.38	726	0	0	0.00	0.00	0.00
## 415	0.40	710	0	0	0.00	0.00	0.00
## 416	1.05	780	0	0	0.00	0.00	0.00
## 417	1.10	768	0	0	0.00	0.00	0.00
## 418	1.08	794	0	0	0.00	0.00	0.00
## 419	1.10	792	0	0	0.00	0.00	0.00
## 420	1.10	783	0	0	0.00	0.00	0.00
## 421	1.10	767	0	0	0.00	0.00	0.00
## 422	1.06	776	0	0	0.00	0.00	0.00
## 423	1.08	762	0	0	0.00	0.00	0.00
## 424	1.10	774	0	0	0.00	0.00	0.00

## 425	1.09	784	0	0	0.00	0.00	0.00
## 426	1.10	768	0	0	0.00	0.00	0.00
## 427	1.10	787	0	0	0.00	0.00	0.00
## 428	1.16	793	0	0	0.00	0.00	0.00
## 429	1.17	796	0	0	0.00	0.00	0.00
## 430	1.14	806	0	0	0.00	0.00	0.00
## 431	1.11	830	0	0	0.00	0.00	0.00
## 432	1.07	830	0	0	0.00	0.00	0.00
## 433	1.04	799	0	0	0.00	0.00	0.00
## 434	1.08	767	0	0	0.00	0.00	0.00
## 435	1.08	762	0	0	0.00	0.00	0.00
## 436	1.05	828	0	0	0.00	0.00	0.00
## 437	1.01	813	0	0	0.00	0.00	0.00
## 438	1.08	789	0	0	0.00	0.00	0.00
## 439	1.04	823	0	0	0.00	0.00	0.00
## 440	1.03	842	0	0	0.00	0.00	0.00
## 441	1.07	807	0	0	0.00	0.00	0.00
## 442	1.07	816	0	0	0.00	0.00	0.00
## 443	1.07	796	0	0	0.00	0.00	0.00
## 444	1.05	795	0	0	0.00	0.00	0.00
## 445	1.04	805	0	0	0.00	0.00	0.00
## 446	1.04	817	0	0	0.00	0.00	0.00
## 447	1.05	831	0	0	0.00	0.00	0.00
## 448	1.31	832	0	0	0.00	0.00	0.00
## 449	1.35	836	0	0	0.00	0.00	0.00
## 450	1.34	825	0	0	0.00	0.00	0.00
## 451	1.35	835	0	0	0.00	0.00	0.00
## 452	1.34	807	0	0	0.00	0.00	0.00
## 453	1.35	792	0	0	0.00	0.00	0.00
## 454	1.37	803	0	0	0.00	0.00	0.00
## 455	1.37	765	0	0	0.00	0.00	0.00
## 456	1.37	805	0	0	0.00	0.00	0.00
## 457	1.37	760	0	0	0.00	0.00	0.00
## 458	1.47	765	0	0	0.00	0.00	0.00
## 459	1.40	722	0	0	0.00	0.00	0.00
## 460	1.40	825	0	0	0.00	0.00	0.00
## 461	1.41	820	0	0	0.00	0.00	0.00
## 462	1.34	821	0	0	0.00	0.00	0.00
## 463	1.33	801	0	0	0.00	0.00	0.00
## 464	1.30	840	0	0	0.00	0.00	0.00
## 465	1.28	824	0	0	0.00	0.00	0.00
## 466	1.33	833	0	0	0.00	0.00	0.00
## 467	1.36	835	0	0	0.00	0.00	0.00
## 468	1.41	799	0	0	0.00	0.00	0.00
## 469	1.38	828	0	0	0.00	0.00	0.00
## 470	1.35	831	0	0	0.00	0.00	0.00
## 471	1.31	829	0	0	0.00	0.00	0.00
## 472	1.30	832	0	0	0.00	0.00	0.00
## 473	1.30	832	0	0	0.00	0.00	0.00
## 474	1.35	808	0	0	0.00	0.00	0.00
## 475	1.35	825	0	0	0.00	0.00	0.00
## 476	1.35	818	0	0	0.00	0.00	0.00
## 477	1.33	816	0	0	0.00	0.00	0.00
## 478	1.32	822	0	0	0.00	0.00	0.00



## 479	1.38	805	0	0	0.00	0.00	0.00
## 480	1.32	855	0	0	0.00	0.00	0.00
## 481	1.31	855	0	0	0.00	0.00	0.00
## 482	1.31	817	0	0	0.00	0.00	0.00
## 483	1.28	841	0	0	0.00	0.00	0.00
## 484	1.28	818	0	0	0.00	0.00	0.00
## 485	1.32	823	0	0	0.00	0.00	0.00
## 486	1.32	847	0	0	0.00	0.00	0.00
## 487	1.31	828	0	0	0.00	0.00	0.00
## 488	1.31	832	0	0	0.00	0.00	0.00
## 489	1.30	815	0	0	0.00	0.00	0.00
## 490	1.37	817	0	0	0.00	0.00	0.00
## 491	1.37	847	0	0	0.00	0.00	0.00
## 492	1.34	840	0	0	0.00	0.00	0.00
## 493	1.32	868	0	0	0.00	0.00	0.00
## 494	1.33	839	0	0	0.00	0.00	0.00
## 495	1.35	851	0	0	0.00	0.00	0.00
## 496	1.34	831	0	0	0.00	0.00	0.00
## 497	1.35	838	0	0	0.00	0.00	0.00
## 498	1.39	821	0	0	0.00	0.00	0.00
## 499	1.42	865	0	0	0.00	0.00	0.00
## 500	1.44	854	0	0	0.00	0.00	0.00
## 501	1.42	827	0	0	0.00	0.00	0.00
## 502	1.41	889	0	0	0.00	0.00	0.00
## 503	1.40	842	0	0	0.00	0.00	0.00
## 504	1.45	842	0	0	0.00	0.00	0.00
## 505	1.44	859	0	0	0.00	0.00	0.00
## 506	1.43	830	0	0	0.00	0.00	0.00
## 507	1.42	866	0	0	0.00	0.00	0.00
## 508	1.43	862	0	0	0.00	0.00	0.00
## 509	1.53	839	0	0	0.00	0.00	0.00
## 510	1.49	913	0	0	0.00	0.00	0.00
## 511	1.48	859	0	0	0.00	0.00	0.00
## 512	1.48	853	0	0	0.00	0.00	0.00
## 513	1.48	858	0	0	0.00	0.00	0.00
## 514	1.67	868	0	0	0.00	0.00	0.00
## 515	1.70	875	0	0	0.00	0.00	0.00
## 516	1.71	840	0	0	0.00	0.00	0.00
## 517	1.71	857	0	0	0.00	0.00	0.00
## 518	1.72	804	0	0	0.00	0.00	0.00
## 519	1.72	798	0	0	0.00	0.00	0.00
## 520	1.80	771	0	0	0.00	0.00	0.00
## 521	1.80	849	0	0	1.25	1.77	1.89
## 522	1.83	825	0	0	1.62	1.81	1.91
## 523	1.74	859	0	0	1.65	1.70	1.79
## 524	1.75	829	0	0	1.65	1.70	1.81
## 525	1.75	845	0	0	1.65	1.70	1.80
## 526	1.75	833	0	0	1.65	1.70	1.80
## 527	1.75	811	0	0	1.66	1.70	1.80
## 528	1.76	811	0	0	1.65	1.70	1.80
## 529	1.73	871	0	0	1.64	1.68	1.77
## 530	1.72	776	0	0	1.64	1.68	1.77
## 531	1.77	770	0	0	1.65	1.70	1.82
## 532	1.76	729	0	0	1.67	1.70	1.81

## 533	1.75	738	0	0	1.66	1.69	1.80
## 534	1.73	745	0	0	1.64	1.67	1.76
## 535	1.72	726	0	0	1.64	1.67	1.76
## 536	1.70	755	0	0	1.63	1.67	1.75
## 537	1.71	747	0	0	1.64	1.68	1.76
## 538	1.71	728	0	0	1.63	1.67	1.76
## 539	1.72	725	0	0	1.64	1.67	1.77
## 540	1.72	732	0	0	1.63	1.68	1.77
## 541	1.77	775	0	0	1.66	1.72	1.82
## 542	1.76	761	0	0	1.65	1.70	1.80
## 543	1.75	753	0	0	1.64	1.70	1.79
## 544	1.74	759	0	0	1.64	1.70	1.79
## 545	1.72	752	0	0	1.65	1.68	1.77
## 546	1.71	760	0	0	1.65	1.67	1.76
## 547	1.72	746	0	0	1.65	1.68	1.77
## 548	1.72	783	0	0	1.64	1.68	1.77
## 549	1.73	737	0	0	1.64	1.69	1.79
## 550	1.73	746	0	0	1.63	1.70	1.79
## 551	1.75	741	0	0	1.65	1.70	1.79
## 552	1.79	770	0	0	1.65	1.73	1.84
## 553	1.75	754	0	0	1.65	1.70	1.79
## 554	1.74	754	0	0	1.66	1.71	1.80
## 555	1.73	750	0	0	1.65	1.69	1.77
## 556	1.69	772	0	0	1.63	1.66	1.73
## 557	1.65	748	0	0	1.59	1.63	1.69
## 558	1.67	729	0	0	1.60	1.63	1.70
## 559	1.74	772	0	0	1.66	1.71	1.79
## 560	1.73	749	0	0	1.65	1.70	1.78
## 561	1.72	796	0	0	1.67	1.70	1.78
## 562	1.72	801	0	0	1.67	1.70	1.78
## 563	1.81	872	0	0	1.73	1.78	1.88
## 564	1.81	807	0	0	1.71	1.77	1.86
## 565	1.80	825	0	0	1.68	1.76	1.84
## 566	1.75	797	0	0	1.67	1.72	1.80
## 567	1.73	805	0	0	1.65	1.70	1.77
## 568	1.71	813	0	0	1.65	1.69	1.76
## 569	1.69	806	0	0	1.64	1.67	1.74
## 570	1.69	791	0	0	1.60	1.66	1.73
## 571	1.67	774	0	0	1.62	1.65	1.72
## 572	1.71	817	0	0	1.62	1.68	1.75
## 573	1.90	818	0	0	1.80	1.87	1.94
## 574	1.91	802	0	0	1.84	1.87	1.96
## 575	1.90	799	0	0	1.82	1.85	1.93
## 576	1.88	799	0	0	1.81	1.84	1.92
## 577	1.87	769	0	0	1.80	1.83	1.91
## 578	1.87	753	0	0	1.80	1.83	1.91
## 579	1.92	742	0	0	1.83	1.90	1.96
## 580	1.91	755	0	0	1.80	1.89	1.95
## 581	1.90	757	0	0	1.80	1.89	1.95
## 582	1.90	760	0	0	1.83	1.88	1.95
## 583	1.93	768	0	0	1.85	1.90	1.97
## 584	2.12	702	0	0	1.80	2.10	2.22
## 585	2.04	775	0	0	1.93	2.01	2.10
## 586	2.00	768	0	0	1.85	1.98	2.06

## 587	1.97	807	0	0	1.85	1.95	2.03
## 588	1.93	760	0	0	1.85	1.90	1.98
## 589	1.89	784	0	0	1.84	1.87	1.94
## 590	1.89	762	0	0	1.83	1.87	1.94
## 591	1.89	766	0	0	1.83	1.86	1.93
## 592	1.90	747	0	0	1.84	1.87	1.94
## 593	1.90	735	0	0	1.84	1.87	1.95
## 594	1.95	767	0	0	1.87	1.92	2.00
## 595	1.92	766	0	0	1.86	1.90	1.98
## 596	1.90	783	0	0	1.83	1.87	1.95
## 597	1.90	769	0	0	1.84	1.88	1.96
## 598	1.88	773	0	0	1.84	1.86	1.94
## 599	1.87	764	0	0	1.84	1.86	1.93
## 600	1.90	775	0	0	1.82	1.89	1.95
## 601	1.87	753	0	0	1.83	1.86	1.93
## 602	1.90	784	0	0	1.85	1.89	1.96
## 603	1.88	774	0	0	1.83	1.87	1.94
## 604	1.88	768	0	0	1.82	1.86	1.93
## 605	1.93	799	0	0	1.85	1.91	1.98
## 606	1.88	786	0	0	1.83	1.86	1.93
## 607	1.91	781	0	0	1.84	1.90	1.96
## 608	1.86	763	0	0	1.81	1.83	1.91
## 609	1.86	763	0	0	1.82	1.84	1.92
## 610	1.87	732	0	0	1.84	1.86	1.93
## 611	1.88	738	0	0	1.84	1.87	1.94
## 612	1.91	761	0	0	1.85	1.90	1.97
## 613	1.90	735	0	0	1.85	1.87	1.95
## 614	1.91	733	0	0	1.85	1.89	1.96
## 615	1.93	729	0	0	1.87	1.91	1.98
## 616	1.98	807	0	0	1.90	1.97	2.04
## 617	1.99	782	0	0	1.91	1.98	2.05
## 618	1.90	799	0	0	1.86	1.90	1.96
## 619	1.90	778	0	0	1.85	1.89	1.95
## 620	1.90	772	0	0	1.85	1.88	1.95
## 621	1.90	787	0	0	1.85	1.89	1.96
## 622	1.94	773	0	0	1.87	1.92	2.00
## 623	1.95	773	0	0	1.89	1.94	2.01
## 624	1.95	814	0	0	1.89	1.94	2.02
## 625	1.95	805	0	0	1.87	1.94	2.02
## 626	1.93	797	0	0	1.86	1.92	1.99
## 627	1.93	795	0	0	1.86	1.92	2.00
## 628	1.97	804	0	0	1.90	1.95	2.03
## 629	1.95	833	0	0	1.88	1.93	2.01
## 630	1.95	798	0	0	1.88	1.93	2.00
## 631	1.94	799	0	0	1.88	1.91	1.99
## 632	1.94	802	0	0	1.88	1.91	1.99
## 633	1.94	816	0	0	1.86	1.92	1.99
## 634	1.94	802	0	0	1.85	1.92	1.99
## 635	1.94	810	0	0	1.85	1.92	1.99
## 636	1.94	810	0	0	1.87	1.91	1.99
## 637	1.95	798	0	0	1.88	1.91	1.99
## 638	2.00	789	0	0	1.90	1.97	2.05
## 639	1.94	819	0	0	1.86	1.91	1.99
## 640	1.92	794	0	0	1.87	1.90	1.97

## 641	1.92	808	0	0	1.85	1.90	1.98
## 642	1.92	781	0	0	1.87	1.90	1.97
## 643	1.95	799	0	0	1.88	1.94	2.01
## 644	1.93	814	0	0	1.85	1.91	1.98
## 645	1.92	828	0	0	1.85	1.91	1.98
## 646	2.16	825	0	0	2.10	2.15	2.22
## 647	2.25	807	0	0	2.10	2.24	2.33
## 648	2.22	917	0	0	2.15	2.20	2.28
## 649	2.20	861	0	0	2.15	2.19	2.27
## 650	2.20	855	0	0	2.14	2.18	2.26
## 651	2.18	816	0	0	2.14	2.17	2.24
## 652	2.16	873	0	0	2.12	2.14	2.22
## 653	2.15	855	0	0	2.10	2.13	2.21
## 654	2.15	839	0	0	2.11	2.14	2.22
## 655	2.17	838	0	0	2.11	2.16	2.24
## 656	2.18	852	0	0	2.14	2.16	2.25
## 657	2.21	837	0	0	2.15	2.19	2.27
## 658	2.18	816	0	0	2.13	2.17	2.25
## 659	2.18	771	0	0	2.14	2.17	2.25
## 660	2.19	810	0	0	2.15	2.18	2.26
## 661	2.19	785	0	0	2.15	2.17	2.25
## 662	2.18	791	0	0	2.13	2.17	2.24
## 663	2.17	779	0	0	2.13	2.15	2.23
## 664	2.18	828	0	0	2.12	2.16	2.24
## 665	2.19	822	0	0	2.14	2.17	2.25
## 666	2.19	779	0	0	2.14	2.17	2.25
## 667	2.18	806	0	0	2.12	2.17	2.24
## 668	2.18	788	0	0	2.14	2.17	2.24
## 669	2.22	849	0	0	2.15	2.19	2.28
## 670	2.22	835	0	0	2.16	2.20	2.29
## 671	2.25	853	0	0	2.20	2.24	2.32
## 672	2.24	842	0	0	2.15	2.23	2.30
## 673	2.22	802	0	0	2.10	2.22	2.28
## 674	2.18	823	0	0	2.12	2.16	2.23
## 675	2.21	819	0	0	2.16	2.20	2.27
## 676	2.20	836	0	0	2.14	2.19	2.26
## 677	2.20	817	0	0	2.13	2.17	2.25
## 678	2.20	803	0	0	2.15	2.17	2.25
## 679	2.28	846	0	0	2.20	2.26	2.34
## 680	2.26	828	0	0	2.20	2.25	2.32
## 681	2.24	863	0	0	2.17	2.22	2.29
## 682	2.20	845	0	0	2.14	2.18	2.26
## 683	2.18	819	0	0	2.15	2.17	2.24
## 684	2.23	820	0	0	2.17	2.22	2.30
## 685	2.20	862	0	0	2.16	2.18	2.26
## 686	2.19	843	0	0	2.16	2.17	2.25
## 687	2.19	850	0	0	2.16	2.19	2.26
## 688	2.24	850	0	0	2.18	2.23	2.31
## 689	2.28	919	0	0	2.23	2.27	2.36
## 690	2.23	912	0	0	2.20	2.22	2.30
## 691	2.27	892	0	0	2.21	2.23	2.32
## 692	2.19	105	0	0	2.03	2.18	2.20
## 693	2.19	140	0	0	2.08	2.18	2.20
## 694	2.19	147	0	0	2.08	2.17	2.20

## 695	2.19	151	0	0	2.08	2.18	2.20
## 696	2.19	152	0	0	2.09	2.18	2.20
## 697	2.19	155	0	0	2.09	2.18	2.20
## 698	2.19	143	0	0	2.07	2.18	2.20
## 699	2.19	122	0	0	2.08	2.18	2.20
## 700	2.19	124	0	0	2.08	2.18	2.20
## 701	2.19	127	0	0	2.08	2.18	2.20
## 702	2.19	141	0	0	2.09	2.18	2.20
## 703	2.40	123	0	0	2.29	2.38	2.40
## 704	2.40	139	0	0	2.30	2.38	2.40
## 705	2.40	127	0	0	2.30	2.38	2.40
## 706	2.40	136	0	0	2.29	2.38	2.40
## 707	2.40	154	0	0	2.30	2.38	2.40
## 708	2.39	136	0	0	2.25	2.37	2.40
## 709	2.40	102	0	0	2.15	2.36	2.41
## 710	2.40	116	0	0	2.29	2.38	2.40
## 711	2.40	136	0	0	2.29	2.38	2.40
## 712	2.40	143	0	0	2.29	2.38	2.40
## 713	2.40	149	0	0	2.29	2.38	2.40
## 714	2.40	146	0	0	2.30	2.38	2.40
## 715	2.40	144	0	0	2.30	2.38	2.40
## 716	2.39	139	0	0	2.30	2.38	2.40
## 717	2.39	134	0	0	2.29	2.38	2.40
## 718	2.39	135	0	0	2.29	2.38	2.40
## 719	2.39	126	0	0	2.29	2.38	2.40
## 720	2.40	135	0	0	2.27	2.38	2.40
## 721	2.40	129	0	0	2.30	2.38	2.40
## 722	2.40	125	0	0	2.27	2.38	2.40
## 723	2.39	121	0	0	2.28	2.37	2.40
## 724	2.39	133	0	0	2.30	2.38	2.40
## 725	2.39	132	0	0	2.30	2.38	2.40
## 726	2.39	137	0	0	2.30	2.38	2.40
## 727	2.39	141	0	0	2.29	2.38	2.40
## 728	2.39	128	0	0	2.27	2.38	2.40
## 729	2.39	130	0	0	2.27	2.38	2.40
## 730	2.40	122	0	0	2.29	2.38	2.40
## 731	2.40	138	0	0	2.29	2.38	2.40
## 732	2.39	153	0	0	2.30	2.38	2.40
## 733	2.39	147	0	0	2.30	2.38	2.40
## 734	2.39	155	0	0	2.30	2.38	2.40
## 735	2.39	147	0	0	2.30	2.38	2.40
## 736	2.39	152	0	0	2.29	2.38	2.40
## 737	2.40	134	0	0	2.29	2.38	2.40
## 738	2.40	132	0	0	2.29	2.38	2.40
## 739	2.40	131	0	0	2.29	2.38	2.40
## 740	2.40	131	0	0	2.25	2.38	2.40
## 741	2.40	125	0	0	2.25	2.38	2.40
## 742	2.40	124	0	0	2.25	2.38	2.41
## 743	2.40	128	0	0	2.25	2.38	2.41
## 744	2.40	134	0	0	2.27	2.38	2.40
## 745	2.40	139	0	0	2.27	2.38	2.40
## 746	2.40	142	0	0	2.25	2.38	2.40
## 747	2.40	141	0	0	2.25	2.38	2.40
## 748	2.40	149	0	0	2.10	2.38	2.40

## 749	2.40	138	0	0	2.28	2.38	2.41
## 750	2.40	154	0	0	2.25	2.38	2.40
## 751	2.40	156	0	0	2.29	2.38	2.40
## 752	2.40	152	0	0	2.29	2.38	2.40
## 753	2.40	148	0	0	2.27	2.38	2.40
## 754	2.40	141	0	0	2.28	2.38	2.40
## 755	2.40	142	0	0	2.25	2.38	2.40
## 756	2.40	144	0	0	2.29	2.38	2.40
## 757	2.40	143	0	0	2.28	2.38	2.40
## 758	2.40	144	0	0	2.27	2.38	2.40
## 759	2.40	141	0	0	2.28	2.38	2.40
## 760	2.40	124	0	0	2.27	2.38	2.41
## 761	2.40	121	0	0	2.28	2.38	2.40
## 762	2.40	109	0	0	2.17	2.39	2.41
## 763	2.40	124	0	0	2.26	2.39	2.41
## 764	2.40	115	0	0	2.25	2.39	2.41
## 765	2.40	123	0	0	2.28	2.38	2.41
## 766	2.40	129	0	0	2.25	2.38	2.41
## 767	2.40	124	0	0	2.25	2.39	2.41
## 768	2.40	121	0	0	2.17	2.39	2.41
## 769	2.40	127	0	0	2.17	2.38	2.41
## 770	2.41	123	0	0	2.17	2.40	2.43
## 771	2.40	110	0	0	2.17	2.39	2.41
## 772	2.40	128	0	0	2.17	2.40	2.41
## 773	2.40	128	0	0	2.20	2.40	2.41
## 774	2.40	131	0	0	2.25	2.40	2.41
## 775	2.40	124	0	0	2.17	2.40	2.41
## 776	2.40	126	0	0	2.17	2.40	2.41
## 777	2.40	129	0	0	2.17	2.40	2.41
## 778	2.40	125	0	0	2.20	2.40	2.41
## 779	2.40	123	0	0	2.17	2.40	2.41
## 780	2.40	113	0	0	2.17	2.40	2.41
## 781	2.40	103	0	0	2.17	2.40	2.41
## 782	2.40	101	0	0	2.17	2.40	2.41
## 783	2.41	100	0	0	2.17	2.40	2.43
## 784	2.42	74	0	0	2.17	2.40	2.43
## 785	2.43	462	0	0	2.35	2.43	2.43
## 786	2.45	460	0	0	2.34	2.45	2.45
## 787	2.41	473	0	0	2.37	2.41	2.41
## 788	2.41	466	0	0	2.38	2.41	2.41
## 789	2.45	457	0	0	2.40	2.44	2.45
## 790	2.46	469	0	0	2.35	2.46	2.47
## 791	2.75	492	0	0	2.30	2.72	2.75
## 792	2.50	483	0	0	2.45	2.50	2.51
## 793	2.46	485	0	0	2.35	2.46	2.46
## 794	2.41	480	0	0	2.35	2.41	2.41
## 795	2.40	484	0	0	2.35	2.40	2.41
## 796	2.41	481	0	0	2.36	2.41	2.42
## 797	2.40	494	0	0	2.35	2.39	2.40
## 798	2.38	477	0	0	2.33	2.38	2.38
## 799	2.37	490	0	0	2.32	2.36	2.37
## 800	2.35	475	0	0	2.32	2.35	2.36
## 801	2.36	465	0	0	2.33	2.35	2.36
## 802	2.45	479	0	0	2.35	2.45	2.45

## 803	2.40	478	0	0	2.35	2.40	2.41
## 804	2.39	479	0	0	2.30	2.38	2.39
## 805	2.36	488	0	0	2.30	2.36	2.36
## 806	2.36	477	0	0	2.30	2.36	2.36
## 807	2.34	470	0	0	2.28	2.34	2.34
## 808	2.34	462	0	0	2.30	2.34	2.34
## 809	2.34	476	0	0	2.29	2.34	2.34
## 810	2.38	471	0	0	2.32	2.38	2.38
## 811	2.39	487	0	0	2.28	2.39	2.39
## 812	2.39	474	0	0	2.28	2.39	2.39
## 813	2.48	499	0	0	0.00	0.00	0.00
## 814	2.37	483	0	0	2.33	2.37	2.37
## 815	2.36	463	0	0	2.31	2.36	2.36
## 816	2.36	481	0	0	2.28	2.36	2.36
## 817	2.37	477	0	0	2.31	2.37	2.37
## 818	2.37	478	0	0	2.27	2.37	2.37
## 819	2.37	493	0	0	2.32	2.37	2.37
## 820	2.36	473	0	0	2.25	2.36	2.37
## 821	2.36	478	0	0	2.28	2.35	2.36
## 822	2.34	468	0	0	2.29	2.34	2.35
## 823	2.32	470	0	0	2.29	2.31	2.32
## 824	2.38	483	0	0	2.33	2.38	2.38
## 825	2.36	480	0	0	2.30	2.36	2.36
## 826	2.34	479	0	0	2.29	2.34	2.34
## 827	2.33	482	0	0	2.30	2.32	2.33
## 828	2.35	480	0	0	2.30	2.35	2.35
## 829	2.38	469	0	0	2.30	2.38	2.38
## 830	2.40	475	0	0	2.30	2.40	2.40
## 831	2.43	473	0	0	2.28	2.42	2.43
## 832	2.40	469	0	0	2.28	2.39	2.40
## 833	2.50	446	0	0	2.28	2.47	2.50
## 834	2.38	487	0	0	2.30	2.38	2.39
## 835	2.49	509	0	0	2.38	2.49	2.50
## 836	2.55	513	0	0	2.45	2.55	2.55
## 837	2.58	497	0	0	2.35	2.58	2.58
## 838	2.46	504	0	0	2.40	2.45	2.46
## 839	2.45	508	0	0	2.38	2.45	2.45
## 840	2.45	510	0	0	2.28	2.44	2.45
## 841	2.40	495	0	0	2.28	2.39	2.40
## 842	2.34	501	0	0	2.32	2.34	2.34
## 843	2.43	508	0	0	2.40	2.43	2.44
## 844	2.44	505	0	0	2.40	2.44	2.44
## 845	2.45	498	0	0	2.32	2.45	2.46
## 846	2.44	511	0	0	2.28	2.44	2.45
## 847	2.40	496	0	0	2.35	2.40	2.40
## 848	2.38	495	0	0	2.25	2.38	2.39
## 849	2.38	499	0	0	2.33	2.38	2.39
## 850	2.40	509	0	0	2.28	2.40	2.40
## 851	2.41	504	0	0	2.35	2.41	2.42
## 852	2.40	496	0	0	2.30	2.40	2.40
## 853	2.39	506	0	0	2.28	2.39	2.40
## 854	2.38	511	0	0	2.30	2.38	2.38
## 855	2.53	536	0	0	2.28	2.52	2.54
## 856	2.19	518	0	0	2.00	2.18	2.19

## 857	2.18	499	0	0	2.05	2.18	2.18
## 858	2.12	514	0	0	2.07	2.12	2.13
## 859	2.10	518	0	0	2.05	2.10	2.10
## 860	2.09	515	0	0	2.04	2.08	2.09
## 861	2.07	513	0	0	2.05	2.07	2.07
## 862	2.10	509	0	0	2.05	2.10	2.11
## 863	2.11	523	0	0	2.03	2.11	2.11
## 864	2.16	528	0	0	2.02	2.16	2.16
## 865	2.12	528	0	0	2.03	2.12	2.13
## 866	2.17	529	0	0	2.03	2.17	2.18
## 867	2.12	516	0	0	2.05	2.12	2.12
## 868	2.10	528	0	0	2.05	2.10	2.10
## 869	2.12	528	0	0	2.03	2.12	2.12
## 870	2.08	521	0	0	2.03	2.08	2.08
## 871	2.07	519	0	0	2.03	2.07	2.07
## 872	2.07	503	0	0	2.04	2.07	2.08
## 873	2.08	502	0	0	2.05	2.08	2.09
## 874	2.14	500	0	0	2.05	2.14	2.14
## 875	2.11	506	0	0	2.03	2.11	2.12
## 876	2.11	510	0	0	2.03	2.11	2.11
## 877	2.15	510	0	0	2.03	2.14	2.15
## 878	2.15	514	0	0	2.10	2.15	2.16
## 879	2.20	524	0	0	2.03	2.20	2.21
## 880	2.20	538	0	0	2.10	2.20	2.20
## 881	2.15	535	0	0	2.02	2.15	2.15
## 882	2.11	522	0	0	2.08	2.11	2.11
## 883	2.13	529	0	0	2.08	2.13	2.13
## 884	2.14	524	0	0	2.10	2.14	2.14
## 885	2.18	534	0	0	2.12	2.18	2.18
## 886	2.19	509	0	0	2.14	2.18	2.19
## 887	2.42	516	0	0	2.35	2.41	2.42
## 888	5.25	533	0	0	2.00	5.00	5.50
## 889	2.50	532	0	0	2.00	2.50	2.50
## 890	1.91	516	0	0	1.70	1.90	1.93
## 891	1.85	504	0	0	1.78	1.85	1.85
## 892	1.82	490	0	0	1.78	1.82	1.82
## 893	1.94	481	0	0	1.73	1.93	1.94
## 894	2.00	467	0	0	1.75	1.99	2.00
## 895	1.82	462	0	0	1.75	1.81	1.83
## 896	1.80	453	0	0	1.73	1.80	1.80
## 897	2.35	436	0	0	1.80	2.30	2.35
## 898	1.84	457	0	0	1.73	1.84	1.85
## 899	1.82	471	0	0	1.76	1.81	1.82
## 900	1.81	458	0	0	1.77	1.81	1.81
## 901	1.79	454	0	0	1.75	1.79	1.79
## 902	1.80	457	0	0	1.76	1.79	1.80
## 903	1.82	454	0	0	1.77	1.82	1.82
## 904	1.82	462	0	0	1.77	1.82	1.82
## 905	1.82	456	0	0	1.74	1.82	1.82
## 906	1.82	448	0	0	1.77	1.82	1.82
## 907	1.96	458	0	0	1.85	1.95	1.96
## 908	2.02	465	0	0	1.82	2.02	2.03
## 909	1.93	462	0	0	1.82	1.93	1.93
## 910	1.85	464	0	0	1.80	1.85	1.86



## 911	1.83	456	0	0	1.78	1.83	1.83
## 912	1.85	456	0	0	1.76	1.85	1.86
## 913	1.84	462	0	0	1.79	1.83	1.84
## 914	1.85	453	0	0	1.78	1.84	1.85
## 915	1.81	447	0	0	1.76	1.81	1.81
## 916	1.80	450	0	0	1.72	1.79	1.80
## 917	1.78	455	0	0	1.75	1.78	1.78
## 918	1.80	450	0	0	1.72	1.80	1.80
## 919	1.73	467	0	0	1.60	1.72	1.73
## 920	1.55	477	0	0	1.50	1.55	1.55
## 921	1.54	473	0	0	1.49	1.54	1.54
## 922	1.55	468	0	0	1.47	1.55	1.55
## 923	1.53	457	0	0	1.48	1.53	1.54
## 924	1.53	449	0	0	1.49	1.53	1.53
## 925	1.53	441	0	0	1.49	1.53	1.53
## 926	1.54	450	0	0	1.50	1.54	1.55
## 927	1.54	446	0	0	1.48	1.54	1.55
## 928	1.55	444	0	0	1.50	1.55	1.55
## 929	1.55	445	0	0	1.50	1.54	1.55
## 930	1.52	437	0	0	1.48	1.52	1.53
## 931	1.53	429	0	0	1.48	1.53	1.53
## 932	1.54	417	0	0	1.49	1.54	1.55
## 933	1.55	421	0	0	1.49	1.54	1.55
## 934	1.56	417	0	0	1.45	1.55	1.56
## 935	1.54	411	0	0	1.47	1.53	1.54
## 936	1.51	411	0	0	1.47	1.51	1.51
## 937	1.50	406	0	0	1.46	1.50	1.51
## 938	1.62	406	0	0	1.50	1.62	1.63
## 939	1.60	427	0	0	1.45	1.60	1.60
## 940	1.51	422	0	0	1.47	1.50	1.52
## 941	1.50	413	0	0	1.45	1.50	1.51
## 942	1.52	405	0	0	1.46	1.51	1.52
## 943	1.52	401	0	0	1.47	1.52	1.53
## 944	1.53	413	0	0	1.47	1.52	1.53
## 945	1.51	410	0	0	1.46	1.51	1.51
## 946	1.50	419	0	0	1.45	1.50	1.50
## 947	1.49	414	0	0	1.44	1.49	1.50
## 948	1.50	413	0	0	1.45	1.50	1.50
## 949	1.60	394	0	0	1.50	1.59	1.60
## 950	1.50	397	0	0	1.45	1.50	1.50
## 951	1.50	398	0	0	1.45	1.50	1.51
## 952	1.50	384	0	0	1.45	1.50	1.50
## 953	1.49	366	0	0	1.42	1.49	1.50
## 954	1.50	372	0	0	1.45	1.50	1.50
## 955	1.50	368	0	0	1.43	1.50	1.50
## 956	1.49	360	0	0	1.43	1.49	1.50
## 957	1.50	363	0	0	1.43	1.50	1.50
## 958	1.51	348	0	0	1.43	1.51	1.52
## 959	1.55	341	0	0	1.40	1.55	1.55
## 960	1.50	380	0	0	1.45	1.50	1.51
## 961	1.52	375	0	0	1.47	1.52	1.52
## 962	1.52	384	0	0	1.47	1.52	1.53
## 963	1.53	379	0	0	1.47	1.53	1.53
## 964	1.52	376	0	0	1.47	1.52	1.53

## 965	1.52	387	0	0	1.47	1.52	1.52
## 966	1.52	376	0	0	1.47	1.52	1.52
## 967	1.52	389	0	0	1.47	1.52	1.52
## 968	1.52	388	0	0	1.47	1.52	1.52
## 969	1.53	394	0	0	1.47	1.53	1.53
## 970	1.52	397	0	0	1.47	1.52	1.52
## 971	1.52	405	0	0	1.46	1.51	1.52
## 972	1.51	396	0	0	1.44	1.51	1.52
## 973	1.51	393	0	0	1.45	1.51	1.51
## 974	1.51	389	0	0	1.45	1.51	1.51
## 975	1.51	395	0	0	1.46	1.51	1.51
## 976	1.51	392	0	0	1.46	1.51	1.51
## 977	1.51	389	0	0	1.46	1.51	1.51
## 978	1.51	393	0	0	1.46	1.51	1.51
## 979	1.55	397	0	0	1.48	1.55	1.55
## 980	1.57	411	0	0	1.51	1.57	1.58
## 981	1.57	409	0	0	1.52	1.57	1.57
## 982	1.58	419	0	0	1.51	1.58	1.58
## 983	1.57	428	0	0	1.50	1.57	1.57
## 984	1.57	432	0	0	1.52	1.57	1.57
## 985	1.56	432	0	0	1.51	1.56	1.56
## 986	1.56	427	0	0	1.51	1.56	1.56
## 987	1.56	427	0	0	1.51	1.56	1.56
## 988	1.55	441	0	0	1.51	1.55	1.56
## 989	1.55	436	0	0	1.51	1.55	1.56
## 990	1.56	431	0	0	1.52	1.56	1.56
## 991	1.58	440	0	0	1.52	1.57	1.58
## 992	1.57	444	0	0	1.52	1.57	1.57
## 993	1.59	449	0	0	1.51	1.58	1.59
## 994	1.56	442	0	0	1.51	1.56	1.56
## 995	1.56	443	0	0	1.51	1.56	1.56
## 996	1.57	451	0	0	1.52	1.57	1.57
## 997	1.57	458	0	0	1.52	1.57	1.57
## 998	1.57	456	0	0	1.46	1.57	1.57
## 999	1.59	447	0	0	1.50	1.59	1.59
## 1000	1.57	472	0	0	1.52	1.57	1.57
## 1001	1.63	480	0	0	1.55	1.63	1.63
## 1002	1.22	485	0	0	1.03	1.22	1.22
## 1003	1.11	497	0	0	1.06	1.11	1.11
## 1004	1.08	490	0	0	1.04	1.08	1.08
## 1005	1.08	496	0	0	1.00	1.08	1.08
## 1006	1.10	511	0	0	1.05	1.09	1.10
## 1007	1.14	509	0	0	1.05	1.13	1.14
## 1008	1.20	536	0	0	1.00	1.19	1.20
## 1009	1.08	502	0	0	1.02	1.08	1.09
## 1010	0.23	502	0	0	0.10	0.22	0.23
## 1011	0.50	516	0	0	0.02	0.50	0.53
## 1012	0.10	511	0	0	0.03	0.08	0.10
## 1013	0.05	500	0	0	0.01	0.05	0.06
## 1014	0.03	479	0	0	0.00	0.03	0.04
## 1015	0.01	489	0	0	0.00	0.01	0.02
## 1016	0.01	478	0	0	0.00	0.01	0.01
## 1017	0.01	482	0	0	0.00	0.01	0.01
## 1018	0.01	467	0	0	0.00	0.01	0.01

## 1019 0.01	460	0	0	0.00	0.01	0.01
## 1020 0.01	443	0	0	0.00	0.01	0.01
## 1021 0.01	411	0	0	-0.03	0.01	0.01
## 1022 0.01	455	0	0	0.00	0.01	0.01
## 1023 0.01	467	0	0	0.00	0.01	0.01
## 1024 0.01	471	0	0	0.01	0.01	0.01
## 1025 0.01	475	0	0	0.00	0.01	0.01
## 1026 0.01	476	0	0	0.01	0.01	0.01
## 1027 0.01	470	0	0	0.01	0.01	0.01
## 1028 0.01	465	0	0	0.01	0.01	0.01
## 1029 0.05	88	0	0	0.03	0.05	0.05
## 1030 0.05	95	0	0	0.03	0.05	0.05
## 1031 0.05	92	0	0	0.03	0.05	0.05
## 1032 0.05	101	0	0	0.04	0.05	0.05
## 1033 0.05	99	0	0	0.04	0.05	0.05
## 1034 0.05	101	0	0	0.03	0.05	0.05
## 1035 0.05	106	0	0	0.03	0.05	0.05
## 1036 0.05	104	0	0	0.03	0.04	0.05
## 1037 0.05	107	0	0	0.03	0.04	0.05
## 1038 0.04	107	0	0	0.03	0.04	0.05
## 1039 0.05	99	0	0	0.03	0.04	0.05
## 1040 0.04	100	0	0	0.03	0.04	0.05
## 1041 0.04	97	0	0	0.03	0.04	0.05
## 1042 0.04	99	0	0	0.03	0.04	0.05
## 1043 0.05	92	0	0	0.03	0.04	0.05
## 1044 0.05	92	0	0	0.03	0.04	0.05
## 1045 0.05	90	0	0	0.03	0.05	0.05
## 1046 0.05	92	0	0	0.03	0.05	0.05
## 1047 0.05	90	0	0	0.04	0.05	0.05
## 1048 0.05	92	0	0	0.04	0.05	0.05
## 1049 0.05	85	0	0	0.04	0.05	0.05
## 1050 0.05	84	0	0	0.05	0.05	0.05
## 1051 0.05	88	0	0	0.05	0.05	0.05
## 1052 0.05	90	0	0	0.04	0.05	0.05
## 1053 0.05	92	0	0	0.04	0.05	0.05
## 1054 0.05	93	0	0	0.04	0.05	0.05
## 1055 0.05	87	0	0	0.04	0.05	0.05
## 1056 0.05	86	0	0	0.04	0.05	0.05
## 1057 0.05	86	0	0	0.04	0.05	0.05
## 1058 0.05	85	0	0	0.04	0.05	0.05
## 1059 0.05	78	0	0	0.04	0.05	0.06
## 1060 0.05	76	0	0	0.04	0.05	0.06
## 1061 0.05	79	0	0	0.04	0.05	0.05
## 1062 0.05	70	0	0	0.05	0.05	0.06
## 1063 0.05	65	0	0	0.05	0.05	0.06
## 1064 0.05	66	0	0	0.05	0.05	0.06
## 1065 0.06	68	0	0	0.05	0.06	0.06
## 1066 0.06	62	0	0	0.05	0.06	0.07
## 1067 0.06	61	0	0	0.05	0.06	0.07
## 1068 0.07	57	0	0	0.05	0.06	0.08
## 1069 0.07	60	0	0	0.05	0.07	0.08
## 1070 0.07	59	0	0	0.05	0.07	0.08
## 1071 0.08	53	0	0	0.03	0.07	0.09
## 1072 0.08	55	0	0	0.03	0.07	0.09

## 1073 0.08	52	0	0	0.02	0.07	0.09
## 1074 0.09	55	0	0	0.03	0.08	0.09
## 1075 0.09	57	0	0	0.04	0.08	0.09
## 1076 0.09	59	0	0	0.05	0.08	0.10
## 1077 0.09	65	0	0	0.04	0.08	0.09
## 1078 0.09	73	0	0	0.03	0.08	0.09
## 1079 0.08	76	0	0	0.03	0.08	0.09
## 1080 0.08	71	0	0	0.03	0.08	0.09
## 1081 0.08	74	0	0	0.03	0.08	0.09
## 1082 0.08	79	0	0	0.03	0.08	0.09
## 1083 0.08	78	0	0	0.03	0.08	0.09
## 1084 0.08	71	0	0	0.03	0.08	0.09
## 1085 0.08	58	0	0	0.02	0.08	0.09
## 1086 0.08	66	0	0	0.03	0.08	0.09
## 1087 0.09	65	0	0	0.03	0.08	0.09
## 1088 0.08	376	0	0	0.06	0.08	0.08
## 1089 0.08	384	0	0	0.06	0.08	0.08
## 1090 0.08	384	0	0	0.06	0.07	0.08
## 1091 0.08	385	0	0	0.05	0.08	0.08
## 1092 0.08	378	0	0	0.05	0.08	0.08
## 1093 0.08	370	0	0	0.06	0.08	0.08
## 1094 0.09	372	0	0	0.05	0.08	0.09
## 1095 0.11	374	0	0	0.06	0.11	0.11
## 1096 0.08	379	0	0	0.06	0.08	0.09
## 1097 0.09	378	0	0	0.06	0.08	0.09
## 1098 0.09	377	0	0	0.05	0.08	0.09
## 1099 0.08	387	0	0	0.05	0.08	0.09
## 1100 0.08	377	0	0	0.04	0.08	0.08
## 1101 0.08	378	0	0	0.06	0.08	0.08
## 1102 0.07	381	0	0	0.06	0.07	0.08
## 1103 0.08	380	0	0	0.04	0.08	0.08
## 1104 0.08	379	0	0	0.05	0.08	0.08
## 1105 0.07	377	0	0	0.05	0.07	0.07
## 1106 0.07	374	0	0	0.05	0.07	0.07
## 1107 0.08	383	0	0	0.05	0.07	0.08
## 1108 0.07	378	0	0	0.05	0.07	0.08
## 1109 0.07	375	0	0	0.05	0.07	0.07
## 1110 0.07	374	0	0	0.06	0.07	0.07
## 1111 0.07	375	0	0	0.06	0.07	0.07
## 1112 0.07	361	0	0	0.05	0.07	0.07
## 1113 0.07	367	0	0	0.06	0.07	0.07
## 1114 0.07	369	0	0	0.05	0.07	0.07
## 1115 0.07	361	0	0	0.05	0.07	0.07
## 1116 0.07	364	0	0	0.05	0.07	0.07
## 1117 0.07	358	0	0	0.05	0.07	0.07
## 1118 0.07	359	0	0	0.06	0.07	0.07
## 1119 0.07	361	0	0	0.05	0.07	0.07
## 1120 0.07	360	0	0	0.01	0.07	0.07
## 1121 0.05	366	0	0	0.03	0.05	0.05
## 1122 0.05	365	0	0	0.02	0.05	0.05
## 1123 0.06	360	0	0	0.04	0.05	0.06
## 1124 0.06	354	0	0	0.04	0.06	0.06
## 1125 0.05	359	0	0	0.04	0.05	0.06
## 1126 0.05	360	0	0	0.04	0.05	0.05

## 1127 0.05	354	0	0	0.04	0.05	0.05
## 1128 0.07	361	0	0	0.04	0.07	0.07
## 1129 0.06	353	0	0	0.04	0.06	0.06
## 1130 0.06	359	0	0	0.04	0.06	0.06
## 1131 0.06	351	0	0	0.04	0.06	0.06
## 1132 0.07	349	0	0	0.05	0.07	0.07
## 1133 0.07	351	0	0	0.05	0.07	0.07
## 1134 0.07	362	0	0	0.05	0.07	0.07
## 1135 0.07	358	0	0	0.05	0.07	0.07
## 1136 0.07	356	0	0	0.05	0.07	0.07
## 1137 0.07	347	0	0	0.05	0.07	0.07
## 1138 0.07	348	0	0	0.06	0.07	0.07
## 1139 0.07	341	0	0	0.05	0.07	0.07
## 1140 0.07	348	0	0	0.05	0.07	0.07
## 1141 0.07	347	0	0	0.05	0.07	0.07
## 1142 0.06	339	0	0	0.04	0.06	0.06
## 1143 0.05	341	0	0	0.03	0.05	0.05
## 1144 0.04	340	0	0	0.03	0.04	0.04
## 1145 0.04	337	0	0	0.02	0.04	0.04
## 1146 0.06	334	0	0	0.04	0.06	0.06
## 1147 0.06	344	0	0	0.04	0.06	0.06
## 1148 0.05	336	0	0	0.04	0.05	0.05
## 1149 0.06	341	0	0	0.04	0.06	0.06
## 1150 0.05	338	0	0	0.03	0.05	0.05
## 1151 0.06	334	0	0	0.05	0.06	0.06
## 1152 0.07	329	0	0	0.05	0.07	0.07
## 1153 0.07	330	0	0	0.05	0.07	0.07
## 1154 0.07	327	0	0	0.05	0.07	0.07
## 1155 0.06	328	0	0	0.04	0.05	0.06
## 1156 0.06	331	0	0	0.04	0.06	0.06
## 1157 0.06	330	0	0	0.04	0.06	0.07
## 1158 0.06	326	0	0	0.04	0.06	0.06
## 1159 0.07	331	0	0	0.05	0.07	0.07
## 1160 0.06	325	0	0	0.04	0.06	0.06
## 1161 0.06	324	0	0	0.03	0.06	0.06
## 1162 0.06	323	0	0	0.04	0.06	0.06
## 1163 0.05	321	0	0	0.04	0.05	0.05
## 1164 0.05	319	0	0	0.03	0.05	0.05
## 1165 0.06	313	0	0	0.04	0.06	0.06
## 1166 0.06	315	0	0	0.04	0.06	0.06
## 1167 0.06	309	0	0	0.05	0.06	0.07
## 1168 0.06	309	0	0	0.04	0.06	0.06
## 1169 0.06	306	0	0	0.04	0.06	0.06
## 1170 0.07	305	0	0	0.05	0.07	0.07
## 1171 0.07	314	0	0	0.05	0.07	0.07
## 1172 0.07	317	0	0	0.05	0.06	0.07
## 1173 0.08	314	0	0	0.05	0.07	0.08
## 1174 0.08	319	0	0	0.05	0.08	0.08
## 1175 0.08	315	0	0	0.06	0.08	0.08
## 1176 0.08	318	0	0	0.04	0.08	0.08
## 1177 0.07	317	0	0	0.05	0.07	0.07
## 1178 0.07	323	0	0	0.05	0.07	0.07
## 1179 0.07	315	0	0	0.05	0.07	0.07
## 1180 0.08	320	0	0	0.04	0.08	0.08

## 1181 0.07	320	0	0	0.04	0.07	0.07
## 1182 0.05	318	0	0	0.03	0.05	0.05
## 1183 0.04	316	0	0	0.02	0.04	0.04
## 1184 0.04	316	0	0	0.02	0.03	0.04
## 1185 0.04	315	0	0	0.02	0.03	0.04
## 1186 0.05	323	0	0	0.03	0.05	0.05
## 1187 0.06	322	0	0	0.03	0.06	0.06
## 1188 0.06	326	0	0	0.03	0.06	0.07
## 1189 0.08	341	0	0	0.05	0.07	0.08
## 1190 0.06	336	0	0	0.04	0.06	0.06
## 1191 0.06	338	0	0	0.05	0.06	0.06
## 1192 0.06	345	0	0	0.05	0.06	0.06
## 1193 0.07	333	0	0	0.04	0.07	0.07
## 1194 0.07	338	0	0	0.02	0.07	0.07
## 1195 0.06	341	0	0	0.03	0.06	0.06
## 1196 0.06	340	0	0	0.03	0.06	0.06
## 1197 0.06	349	0	0	0.04	0.06	0.06
## 1198 0.06	338	0	0	0.05	0.06	0.06
## 1199 0.06	331	0	0	0.04	0.06	0.06
## 1200 0.07	329	0	0	0.05	0.06	0.07
## 1201 0.07	324	0	0	0.05	0.07	0.07
## 1202 0.07	328	0	0	0.04	0.07	0.07
## 1203 0.07	332	0	0	0.05	0.07	0.07
## 1204 0.07	329	0	0	0.03	0.07	0.07
## 1205 0.05	328	0	0	0.02	0.05	0.06
## 1206 0.05	323	0	0	0.03	0.04	0.05
## 1207 0.06	318	0	0	0.04	0.06	0.06
## 1208 0.07	323	0	0	0.05	0.07	0.07
## 1209 0.08	325	0	0	0.04	0.07	0.08
## 1210 0.08	315	0	0	0.05	0.07	0.08
## 1211 0.06	340	0	0	0.01	0.05	0.06
## 1212 0.06	335	0	0	0.05	0.06	0.07
## 1213 0.08	336	0	0	0.04	0.07	0.08
## 1214 0.08	335	0	0	0.05	0.08	0.08
## 1215 0.08	340	0	0	0.05	0.08	0.08
## 1216 0.07	340	0	0	0.04	0.07	0.07
## 1217 0.07	332	0	0	0.04	0.06	0.07
## 1218 0.06	334	0	0	0.04	0.06	0.06
## 1219 0.05	330	0	0	0.03	0.05	0.06
## 1220 0.05	321	0	0	0.04	0.05	0.05
## 1221 0.05	324	0	0	0.04	0.05	0.06
## 1222 0.05	323	0	0	0.04	0.05	0.05
## 1223 0.04	323	0	0	0.01	0.04	0.04
## 1224 0.02	324	0	0	0.01	0.02	0.02
## 1225 0.04	326	0	0	0.02	0.04	0.04
## 1226 0.05	319	0	0	0.01	0.05	0.05
## 1227 0.02	321	0	0	0.01	0.02	0.02
## 1228 0.02	325	0	0	0.01	0.02	0.02
## 1229 0.03	325	0	0	0.01	0.03	0.03
## 1230 0.04	317	0	0	0.02	0.04	0.04
## 1231 0.05	339	0	0	0.02	0.05	0.05
## 1232 0.05	334	0	0	0.03	0.05	0.06
## 1233 0.06	329	0	0	0.03	0.06	0.06
## 1234 0.03	333	0	0	0.02	0.03	0.03

## 1235 0.01	332	0	0	0.01	0.01	0.01
## 1236 0.01	329	0	0	0.01	0.01	0.01
## 1237 0.03	332	0	0	0.02	0.03	0.03
## 1238 0.05	337	0	0	0.03	0.05	0.05
## 1239 0.04	332	0	0	0.03	0.04	0.04
## 1240 0.03	332	0	0	0.02	0.03	0.03
## 1241 0.04	337	0	0	0.03	0.04	0.05
## 1242 0.05	343	0	0	0.02	0.05	0.05
## 1243 0.02	333	0	0	0.01	0.02	0.02
## 1244 0.01	331	0	0	0.01	0.01	0.01
## 1245 0.02	327	0	0	0.01	0.01	0.02
## 1246 0.01	344	0	0	0.01	0.01	0.01
## 1247 0.01	340	0	0	0.01	0.01	0.01
## 1248 0.02	332	0	0	0.01	0.02	0.02
## 1249 0.01	336	0	0	0.01	0.01	0.01
## 1250 0.01	337	0	0	0.01	0.01	0.01
## 1251 0.02	349	0	0	0.01	0.02	0.02
## 1252 0.03	342	0	0	0.01	0.03	0.03
## 1253 0.01	343	0	0	0.01	0.01	0.01
## 1254 0.01	339	0	0	0.01	0.01	0.01
## 1255 0.01	339	0	0	0.01	0.01	0.01
## 1256 0.01	341	0	0	0.01	0.01	0.01
## 1257 0.01	344	0	0	0.01	0.01	0.01
## 1258 0.01	346	0	0	0.01	0.01	0.01
## 1259 0.01	342	0	0	-0.01	0.01	0.01
## 1260 0.01	344	0	0	0.01	0.01	0.01
## 1261 0.01	342	0	0	0.00	0.01	0.01
## 1262 0.01	331	0	0	0.00	0.01	0.01
## 1263 0.01	339	0	0	0.00	0.01	0.01
## 1264 0.01	337	0	0	-0.01	0.01	0.01
## 1265 0.01	332	0	0	0.00	0.01	0.01
## 1266 0.01	349	0	0	-0.01	0.01	0.01
## 1267 0.01	355	0	0	0.00	0.01	0.01
## 1268 0.01	351	0	0	0.01	0.01	0.01
## 1269 0.01	347	0	0	0.01	0.01	0.01
## 1270 0.01	329	0	0	0.01	0.01	0.01
## 1271 0.01	324	0	0	0.00	0.01	0.01
## 1272 0.01	324	0	0	0.00	0.01	0.01
## 1273 0.01	333	0	0	0.00	0.01	0.01
## 1274 0.01	985	0	0	0.00	0.01	0.04
## 1275 0.01	979	0	0	0.00	0.01	0.04
## 1276 0.01	924	0	0	0.00	0.01	0.02
## 1277 0.01	896	0	0	-0.01	0.01	0.01
## 1278 0.01	867	0	0	-0.02	0.00	0.01
## 1279 0.01	863	0	0	-0.02	0.00	0.01
## 1280 0.01	894	0	0	-0.02	0.00	0.01
## 1281 0.01	883	0	0	-0.03	0.00	0.01
## 1282 0.01	928	0	0	-0.02	0.01	0.01
## 1283 0.01	913	0	0	-0.02	0.00	0.01
## 1284 0.01	919	0	0	-0.03	0.00	0.01
## 1285 0.01	896	0	0	-0.03	0.00	0.01
## 1286 0.01	882	0	0	-0.03	0.00	0.01
## 1287 0.01	870	0	0	-0.02	0.00	0.01
## 1288 0.01	871	0	0	-0.02	0.00	0.01

## 1289 0.01	875	0	0	-0.03	0.00	0.01
## 1290 0.01	879	0	0	-0.03	0.00	0.01
## 1291 0.01	847	0	0	-0.03	0.00	0.01
## 1292 0.01	838	0	0	-0.03	0.00	0.01
## 1293 0.01	924	0	0	-0.02	0.00	0.01
## 1294 0.01	930	0	0	-0.02	0.01	0.01
## 1295 0.01	895	0	0	-0.02	0.01	0.01
## 1296 0.01	841	0	0	-0.02	0.01	0.01
## 1297 0.01	883	0	0	-0.02	0.01	0.01
## 1298 0.01	869	0	0	-0.02	0.01	0.01
## 1299 0.01	869	0	0	-0.02	0.01	0.01
## 1300 0.01	865	0	0	-0.02	0.01	0.01
## 1301 0.01	895	0	0	-0.03	0.00	0.01
## 1302 0.01	860	0	0	-0.03	0.00	0.01
## 1303 0.01	865	0	0	-0.04	-0.01	0.01
## 1304 0.01	902	0	0	-0.03	0.00	0.01
## 1305 0.01	888	0	0	-0.03	0.00	0.01
## 1306 0.01	891	0	0	-0.04	0.00	0.01
## 1307 0.01	872	0	0	-0.04	0.00	0.01
## 1308 0.01	857	0	0	-0.05	-0.01	0.01
## 1309 0.01	858	0	0	-0.05	-0.01	0.01
## 1310 0.01	877	0	0	-0.05	-0.01	0.01
## 1311 0.01	869	0	0	-0.05	-0.01	0.01
## 1312 0.01	877	0	0	-0.05	-0.01	0.01
## 1313 0.01	868	0	0	-0.05	-0.01	0.01
## 1314 0.01	977	0	0	-0.03	0.00	0.01
## 1315 0.01	953	0	0	-0.03	0.01	0.01
## 1316 0.01	903	0	0	-0.02	0.01	0.01
## 1317 0.01	898	0	0	-0.02	0.01	0.01
## 1318 0.01	921	0	0	-0.03	0.00	0.01
## 1319 0.01	896	0	0	-0.03	0.00	0.01
## 1320 0.01	896	0	0	-0.03	0.00	0.01
## 1321 0.01	904	0	0	-0.02	0.01	0.01
## 1322 0.01	834	0	0	-0.02	0.00	0.01
## 1323 0.01	877	0	0	-0.04	0.00	0.01
## 1324 0.01	905	0	0	-0.02	0.00	0.01
## 1325 0.01	900	0	0	-0.02	0.00	0.01
## 1326 0.05	998	0	0	0.00	0.04	0.06
## 1327 0.05	921	0	0	0.00	0.04	0.06
## 1328 0.05	894	0	0	0.00	0.03	0.05
## 1329 0.05	888	0	0	-0.01	0.03	0.05
## 1330 0.05	835	0	0	-0.02	0.03	0.05
## 1331 0.05	868	0	0	-0.01	0.04	0.05
## 1332 0.05	850	0	0	0.00	0.04	0.06
## 1333 0.05	853	0	0	-0.01	0.04	0.05
## 1334 0.05	850	0	0	-0.02	0.02	0.05
## 1335 0.05	871	0	0	-0.02	0.03	0.05
## 1336 0.05	938	0	0	0.00	0.04	0.06
## 1337 0.05	910	0	0	0.00	0.05	0.06
## 1338 0.05	934	0	0	0.00	0.05	0.06
## 1339 0.05	905	0	0	0.00	0.05	0.06
## 1340 0.05	874	0	0	0.01	0.05	0.06
## 1341 0.05	911	0	0	0.00	0.04	0.05
## 1342 0.05	855	0	0	0.01	0.04	0.05



## 1343 0.05	875	0	0	0.01	0.04	0.05
## 1344 0.05	908	0	0	0.00	0.04	0.05
## 1345 0.05	933	0	0	0.02	0.05	0.06
## 1346 0.05	864	0	0	0.02	0.04	0.05
## 1347 0.05	888	0	0	0.00	0.03	0.05
## 1348 0.05	855	0	0	0.01	0.04	0.05
## 1349 0.05	913	0	0	0.00	0.03	0.05
## 1350 0.05	849	0	0	0.01	0.04	0.05
## 1351 0.05	861	0	0	0.01	0.04	0.05
## 1352 0.05	881	0	0	0.01	0.04	0.05
## 1353 0.05	874	0	0	0.01	0.04	0.05
## 1354 0.05	862	0	0	0.01	0.04	0.05
## 1355 0.05	877	0	0	0.01	0.04	0.05
## 1356 0.05	903	0	0	0.00	0.03	0.05
## 1357 0.05	986	0	0	0.01	0.05	0.06
## 1358 0.05	974	0	0	0.02	0.05	0.06
## 1359 0.05	926	0	0	0.02	0.05	0.06
## 1360 0.05	901	0	0	0.00	0.00	0.00
## 1361 0.05	891	0	0	0.02	0.05	0.06
## 1362 0.05	884	0	0	0.02	0.05	0.06
## 1363 0.05	865	0	0	0.01	0.04	0.05
## 1364 0.05	904	0	0	0.00	0.04	0.05
## 1365 0.05	909	0	0	0.00	0.04	0.05
## 1366 0.05	893	0	0	0.00	0.04	0.05
## 1367 0.05	906	0	0	0.01	0.05	0.06
## 1368 0.05	905	0	0	0.01	0.05	0.05
## 1369 0.05	935	0	0	0.00	0.04	0.05
## 1370 0.05	925	0	0	0.00	0.03	0.05
## 1371 0.05	902	0	0	0.00	0.03	0.05
## 1372 0.05	899	0	0	0.00	0.03	0.05
## 1373 0.05	923	0	0	0.00	0.04	0.05
## 1374 0.05	912	0	0	0.00	0.04	0.05
## 1375 0.05	864	0	0	0.01	0.05	0.05
## 1376 0.05	920	0	0	0.00	0.04	0.05
## 1377 0.05	885	0	0	0.00	0.04	0.05
## 1378 0.05	953	0	0	0.02	0.05	0.06
## 1379 0.05	936	0	0	0.02	0.05	0.06
## 1380 0.05	952	0	0	0.02	0.05	0.06
## 1381 0.05	883	0	0	0.02	0.05	0.06
## 1382 0.05	945	0	0	0.01	0.05	0.06
## 1383 0.05	896	0	0	0.01	0.05	0.05
## 1384 0.05	917	0	0	0.01	0.05	0.05
## 1385 0.05	891	0	0	0.02	0.05	0.06
## 1386 0.05	914	0	0	0.01	0.05	0.05
## 1387 0.05	893	0	0	0.01	0.04	0.05
## 1388 0.05	942	0	0	0.02	0.05	0.06
## 1389 0.05	905	0	0	0.02	0.05	0.05
## 1390 0.05	884	0	0	0.01	0.04	0.05
## 1391 0.05	928	0	0	0.00	0.03	0.05
## 1392 0.05	894	0	0	0.00	0.03	0.05
## 1393 0.05	879	0	0	0.00	0.03	0.05
## 1394 0.05	878	0	0	0.00	0.03	0.05
## 1395 0.05	896	0	0	0.00	0.04	0.05
## 1396 0.05	927	0	0	0.00	0.04	0.05

## 1397 0.05	883	0	0	0.00	0.04	0.05
## 1398 0.05	872	0	0	-0.02	0.03	0.05
## 1399 0.05	939	0	0	-0.01	0.03	0.05
## 1400 0.05	928	0	0	0.00	0.04	0.05
## 1401 0.05	925	0	0	0.00	0.04	0.05
## 1402 0.05	916	0	0	0.00	0.04	0.05
## 1403 0.05	902	0	0	0.00	0.04	0.05
## 1404 0.05	911	0	0	0.00	0.04	0.05
## 1405 0.05	887	0	0	0.00	0.04	0.05
## 1406 0.05	925	0	0	-0.01	0.03	0.05
## 1407 0.05	907	0	0	-0.01	0.03	0.05
## 1408 0.05	873	0	0	-0.03	0.03	0.05
## 1409 0.05	889	0	0	-0.01	0.02	0.05
## 1410 0.05	879	0	0	-0.02	0.01	0.05
## 1411 0.03	875	0	0	-0.03	0.01	0.05
## 1412 0.03	857	0	0	-0.04	0.00	0.05
## 1413 0.03	879	0	0	-0.05	0.00	0.05
## 1414 0.05	863	0	0	-0.03	0.02	0.05
## 1415 0.04	858	0	0	-0.03	0.02	0.05
## 1416 0.05	877	0	0	-0.03	0.02	0.05
## 1417 0.05	865	0	0	-0.03	0.02	0.05
## 1418 0.05	871	0	0	-0.03	0.02	0.05
## 1419 0.05	847	0	0	-0.03	0.02	0.05
## 1420 0.05	959	0	0	-0.02	0.03	0.05
## 1421 0.05	910	0	0	-0.01	0.04	0.05
## 1422 0.05	877	0	0	0.00	0.04	0.05
## 1423 0.05	925	0	0	-0.01	0.04	0.05
## 1424 0.05	875	0	0	0.00	0.04	0.05
## 1425 0.05	907	0	0	0.00	0.04	0.05
## 1426 0.05	908	0	0	0.00	0.04	0.05
## 1427 0.05	871	0	0	0.00	0.04	0.05
## 1428 0.05	868	0	0	0.00	0.04	0.05
## 1429 0.05	958	0	0	0.00	0.04	0.05
## 1430 0.05	924	0	0	-0.01	0.04	0.05
## 1431 0.05	893	0	0	-0.01	0.03	0.05
## 1432 0.05	898	0	0	-0.01	0.03	0.05
## 1433 0.05	895	0	0	-0.01	0.03	0.05
## 1434 0.05	930	0	0	-0.01	0.03	0.05
## 1435 0.05	920	0	0	-0.01	0.03	0.05
## 1436 0.05	887	0	0	0.00	0.04	0.05
## 1437 0.05	895	0	0	0.00	0.04	0.06
## 1438 0.05	953	0	0	0.00	0.04	0.05
## 1439 0.05	1067	0	0	0.00	0.04	0.06
## 1440 0.05	1088	0	0	0.00	0.05	0.06
## 1441 0.05	1031	0	0	0.00	0.04	0.06
## 1442 0.05	1015	0	0	0.00	0.04	0.06
## 1443 0.05	994	0	0	0.00	0.04	0.06
## 1444 0.05	989	0	0	0.00	0.04	0.06
## 1445 0.05	978	0	0	0.00	0.05	0.06
## 1446 0.05	973	0	0	0.00	0.04	0.06
## 1447 0.05	919	0	0	0.00	0.04	0.06
## 1448 0.05	936	0	0	-0.01	0.03	0.05
## 1449 0.05	919	0	0	-0.01	0.03	0.05
## 1450 0.05	959	0	0	-0.01	0.03	0.05

## 1451 0.05	914	0	0	-0.01	0.02	0.05
## 1452 0.05	910	0	0	-0.01	0.02	0.05
## 1453 0.04	905	0	0	-0.02	0.01	0.05
## 1454 0.05	896	0	0	-0.02	0.01	0.05
## 1455 0.05	893	0	0	-0.02	0.02	0.05
## 1456 0.05	880	0	0	-0.01	0.03	0.05
## 1457 0.08	88	0	0	0.04	0.07	0.08
## 1458 0.07	257	0	0	0.05	0.07	0.08
## 1459 0.07	242	0	0	0.04	0.07	0.08
## 1460 0.07	230	0	0	0.05	0.07	0.08
## 1461 0.07	239	0	0	0.04	0.07	0.08
## 1462 0.07	88	0	0	0.03	0.06	0.08
## 1463 0.07	249	0	0	0.05	0.07	0.08
## 1464 0.07	252	0	0	0.05	0.06	0.08
## 1465 0.07	263	0	0	0.05	0.06	0.08
## 1466 0.07	262	0	0	0.05	0.06	0.08
## 1467 0.07	258	0	0	0.05	0.06	0.08
## 1468 0.07	267	0	0	0.05	0.06	0.08
## 1469 0.07	260	0	0	0.05	0.07	0.08
## 1470 0.07	250	0	0	0.05	0.07	0.08
## 1471 0.07	259	0	0	0.05	0.07	0.08
## 1472 0.07	260	0	0	0.05	0.07	0.08
## 1473 0.07	269	0	0	0.05	0.07	0.08
## 1474 0.07	262	0	0	0.05	0.07	0.08
## 1475 0.07	265	0	0	0.05	0.07	0.08
## 1476 0.07	276	0	0	0.05	0.07	0.08
## 1477 0.07	273	0	0	0.05	0.07	0.08
## 1478 0.07	278	0	0	0.05	0.07	0.08
## 1479 0.07	278	0	0	0.05	0.07	0.08
## 1480 0.07	274	0	0	0.05	0.07	0.08
## 1481 0.07	281	0	0	0.05	0.07	0.08
## 1482 0.07	256	0	0	0.05	0.06	0.08
## 1483 0.07	286	0	0	0.05	0.07	0.08
## 1484 0.07	274	0	0	0.05	0.07	0.08
## 1485 0.07	277	0	0	0.05	0.06	0.08
## 1486 0.07	254	0	0	0.05	0.07	0.08
## 1487 0.07	260	0	0	0.05	0.07	0.08
## 1488 0.07	263	0	0	0.05	0.07	0.08
## 1489 0.07	266	0	0	0.05	0.07	0.08
## 1490 0.07	280	0	0	0.05	0.07	0.08
## 1491 0.07	251	0	0	0.04	0.07	0.08
## 1492 0.07	249	0	0	0.05	0.06	0.08
## 1493 0.07	249	0	0	0.04	0.07	0.08
## 1494 0.07	241	0	0	0.05	0.07	0.08
## 1495 0.07	249	0	0	0.05	0.07	0.08
## 1496 0.07	245	0	0	0.05	0.07	0.08
## 1497 0.07	257	0	0	0.05	0.07	0.08
## 1498 0.07	261	0	0	0.05	0.07	0.08
## 1499 0.07	243	0	0	0.05	0.07	0.08
## 1500 0.07	249	0	0	0.05	0.07	0.08
## 1501 0.07	236	0	0	0.05	0.07	0.08
## 1502 0.07	247	0	0	0.05	0.07	0.08
## 1503 0.07	258	0	0	0.05	0.07	0.08
## 1504 0.07	253	0	0	0.05	0.07	0.08

## 1505 0.07	252	0	0	0.05	0.07	0.08
## 1506 0.07	263	0	0	0.05	0.07	0.08
## 1507 0.07	256	0	0	0.05	0.07	0.08
## 1508 0.07	246	0	0	0.05	0.07	0.08
## 1509 0.07	256	0	0	0.04	0.07	0.08
## 1510 0.07	247	0	0	0.05	0.07	0.08
## 1511 0.07	251	0	0	0.05	0.07	0.08
## 1512 0.07	253	0	0	0.05	0.07	0.08
## 1513 0.07	260	0	0	0.05	0.07	0.08
## 1514 0.32	266	0	0	0.27	0.32	0.33
## 1515 0.32	253	0	0	0.28	0.32	0.33
## 1516 0.32	260	0	0	0.28	0.32	0.33
## 1517 0.32	254	0	0	0.28	0.32	0.33
## 1518 0.32	243	0	0	0.29	0.32	0.33
## 1519 0.32	246	0	0	0.25	0.32	0.33
## 1520 0.32	261	0	0	0.28	0.32	0.33
## 1521 0.32	249	0	0	0.29	0.32	0.33
## 1522 0.32	255	0	0	0.29	0.32	0.33
## 1523 0.32	249	0	0	0.29	0.32	0.33
## 1524 0.32	145	0	0	0.25	0.31	0.33
## 1525 0.32	243	0	0	0.29	0.32	0.33
## 1526 0.32	254	0	0	0.29	0.32	0.33
## 1527 0.32	263	0	0	0.29	0.32	0.33
## 1528 0.32	254	0	0	0.29	0.32	0.33
## 1529 0.32	257	0	0	0.25	0.32	0.33
## 1530 0.32	258	0	0	0.28	0.32	0.33
## 1531 0.32	266	0	0	0.28	0.32	0.33
## 1532 0.32	266	0	0	0.26	0.32	0.33
## 1533 0.32	244	0	0	0.27	0.32	0.33
## 1534 0.33	97	0	0	0.20	0.32	0.34
## 1535 0.30	349	0	0	0.05	0.28	0.30
## 1536 0.30	342	0	0	0.05	0.28	0.30
## 1537 0.30	345	0	0	0.10	0.26	0.30
## 1538 0.30	339	0	0	0.05	0.26	0.30
## 1539 0.30	335	0	0	0.05	0.27	0.30
## 1540 0.30	342	0	0	0.01	0.27	0.30
## 1541 0.30	338	0	0	0.20	0.27	0.30
## 1542 0.30	342	0	0	0.10	0.27	0.30
## 1543 0.30	337	0	0	0.01	0.27	0.30
## 1544 0.30	354	0	0	0.01	0.27	0.30
## 1545 0.30	362	0	0	0.10	0.28	0.30
## 1546 0.30	354	0	0	0.05	0.28	0.30
## 1547 0.30	359	0	0	0.15	0.28	0.30
## 1548 0.80	354	0	0	0.45	0.78	0.80
## 1549 0.80	360	0	0	0.72	0.77	0.80
## 1550 0.80	354	0	0	0.65	0.77	0.80
## 1551 0.80	348	0	0	0.71	0.77	0.80
## 1552 0.80	357	0	0	0.68	0.77	0.80
## 1553 0.80	357	0	0	0.40	0.77	0.80
## 1554 0.80	356	0	0	0.55	0.77	0.80
## 1555 0.80	376	0	0	0.40	0.78	0.80
## 1556 0.80	366	0	0	0.40	0.78	0.80
## 1557 0.80	355	0	0	0.71	0.78	0.80
## 1558 0.79	358	0	0	0.40	0.77	0.80

## 1559 0.79	362	0	0	0.40	0.77	0.80
## 1560 0.79	364	0	0	0.40	0.77	0.80
## 1561 0.79	366	0	0	0.70	0.77	0.80
## 1562 0.79	362	0	0	0.65	0.77	0.80
## 1563 0.79	368	0	0	0.30	0.77	0.80
## 1564 0.79	365	0	0	0.65	0.77	0.80
## 1565 0.80	366	0	0	0.30	0.77	0.80
## 1566 0.80	370	0	0	0.65	0.77	0.80
## 1567 0.79	368	0	0	0.51	0.77	0.80
## 1568 0.79	365	0	0	0.70	0.77	0.80
## 1569 0.78	360	0	0	0.65	0.77	0.80
## 1570 0.78	365	0	0	0.60	0.76	0.80
## 1571 0.78	372	0	0	0.60	0.75	0.80
## 1572 0.77	383	0	0	0.30	0.75	0.80
## 1573 0.76	382	0	0	0.25	0.75	0.80
## 1574 0.75	381	0	0	0.50	0.73	0.80
## 1575 0.72	373	0	0	0.15	0.68	0.80
## 1576 0.72	364	0	0	0.57	0.68	0.80
## 1577 1.46	369	0	0	0.71	1.44	1.54
## 1578 1.46	365	0	0	1.30	1.44	1.55
## 1579 1.46	372	0	0	0.75	1.43	1.55
## 1580 1.46	378	0	0	0.75	1.43	1.55
## 1581 1.46	368	0	0	1.00	1.43	1.55
## 1582 1.46	367	0	0	1.35	1.43	1.55
## 1583 1.49	367	0	0	1.00	1.48	1.55
## 1584 1.51	352	0	0	1.00	1.50	1.55
## 1585 1.51	352	0	0	1.30	1.49	1.54
## 1586 1.48	347	0	0	0.10	1.46	1.52
## 1587 1.50	357	0	0	1.00	1.48	1.54
## 1588 1.51	362	0	0	0.75	1.49	1.55
## 1589 1.51	359	0	0	1.43	1.50	1.55
## 1590 1.51	361	0	0	1.43	1.49	1.55
## 1591 1.51	368	0	0	1.00	1.50	1.55
## 1592 1.51	359	0	0	1.37	1.49	1.55
## 1593 1.51	364	0	0	1.43	1.50	1.54
## 1594 1.51	367	0	0	1.30	1.49	1.55
## 1595 1.51	369	0	0	1.43	1.49	1.55
## 1596 1.51	368	0	0	1.43	1.49	1.55
## 1597 1.51	367	0	0	1.43	1.50	1.55
## 1598 1.51	372	0	0	1.43	1.50	1.55
## 1599 1.51	369	0	0	1.00	1.50	1.55
## 1600 1.51	377	0	0	0.75	1.50	1.54
## 1601 1.50	371	0	0	1.43	1.49	1.54
## 1602 1.51	379	0	0	1.23	1.49	1.53
## 1603 1.51	376	0	0	1.42	1.49	1.54
## 1604 1.51	385	0	0	1.00	1.50	1.54
## 1605 2.25	382	0	0	1.54	2.24	2.28
## 1606 2.25	374	0	0	2.18	2.24	2.28
## 1607 2.25	401	0	0	0.75	2.24	2.30
## 1608 2.27	399	0	0	2.18	2.25	2.30
## 1609 2.27	379	0	0	0.75	2.26	2.30
## 1610 2.27	393	0	0	2.18	2.25	2.30
## 1611 2.26	391	0	0	2.15	2.25	2.30
## 1612 2.26	387	0	0	2.18	2.25	2.30

## 1613 2.26	386	0	0	2.18	2.25	2.30
## 1614 2.26	390	0	0	2.18	2.25	2.30
## 1615 2.26	392	0	0	2.15	2.25	2.30
## 1616 2.26	396	0	0	2.18	2.25	2.30
## 1617 2.26	394	0	0	2.16	2.25	2.30
## 1618 2.26	393	0	0	2.18	2.25	2.30
## 1619 2.26	400	0	0	2.16	2.25	2.30
## 1620 2.26	398	0	0	1.25	2.25	2.30
## 1621 2.26	393	0	0	2.16	2.25	2.29
## 1622 2.26	393	0	0	0.75	2.25	2.29
## 1623 2.26	390	0	0	2.15	2.25	2.29
## 1624 2.26	388	0	0	2.15	2.25	2.29
## 1625 2.26	396	0	0	2.18	2.25	2.30
## 1626 2.26	391	0	0	2.10	2.25	2.30
## 1627 2.26	393	0	0	2.18	2.25	2.30
## 1628 2.26	387	0	0	2.18	2.25	2.30
## 1629 2.26	404	0	0	1.00	2.25	2.30
## 1630 2.26	398	0	0	2.18	2.25	2.30
## 1631 2.26	392	0	0	2.18	2.25	2.30
## 1632 2.26	399	0	0	1.88	2.25	2.30
## 1633 2.26	387	0	0	2.15	2.25	2.30
## 1634 2.26	395	0	0	2.15	2.25	2.29
## 1635 2.26	395	0	0	2.18	2.25	2.29
## 1636 2.26	397	0	0	2.16	2.25	2.30
## 1637 2.26	406	0	0	1.00	2.25	2.30
## 1638 2.26	394	0	0	2.18	2.25	2.29
## 1639 2.26	407	0	0	1.00	2.25	2.30
## 1640 2.26	392	0	0	1.90	2.25	2.29
## 1641 2.26	384	0	0	1.00	2.25	2.28
## 1642 2.25	390	0	0	1.00	2.24	2.27
## 1643 2.25	393	0	0	2.00	2.23	2.26
## 1644 2.99	387	0	0	1.50	2.97	3.00
## 1645 2.99	382	0	0	2.80	2.97	3.00
## 1646 2.99	384	0	0	1.50	2.97	3.00
## 1647 2.98	376	0	0	1.50	2.97	3.00
## 1648 2.98	359	0	0	2.75	2.96	3.00
## 1649 2.97	350	0	0	2.85	2.95	3.00
## 1650 2.97	332	0	0	1.50	2.95	3.00
## 1651 2.99	378	0	0	2.90	2.96	3.05
## 1652 3.00	392	0	0	2.93	2.99	3.05
## 1653 3.00	397	0	0	2.93	2.99	3.05
## 1654 3.00	399	0	0	2.93	3.00	3.05
## 1655 3.00	394	0	0	2.93	3.00	3.05
## 1656 3.00	407	0	0	2.93	3.00	3.05
## 1657 3.00	390	0	0	2.92	3.00	3.05
## 1658 3.00	398	0	0	2.90	3.00	3.05
## 1659 3.00	387	0	0	2.93	3.00	3.05
## 1660 3.00	389	0	0	2.85	3.00	3.05
## 1661 3.00	388	0	0	2.93	3.00	3.05
## 1662 3.00	385	0	0	2.93	2.99	3.05
## 1663 3.00	393	0	0	1.50	2.99	3.04
## 1664 3.00	387	0	0	2.92	2.98	3.03
## 1665 3.00	388	0	0	2.91	2.98	3.03
## 1666 3.00	395	0	0	2.91	2.98	3.04

## 1667	3.00	402	0	0	2.92	2.98	3.04
## 1668	3.00	406	0	0	2.92	2.99	3.05
## 1669	3.00	397	0	0	2.93	2.99	3.05
## 1670	3.00	414	0	0	2.90	3.00	3.05
## 1671	3.01	420	0	0	2.93	3.00	3.05
## 1672	3.00	405	0	0	2.90	3.00	3.05
## 1673	3.76	418	0	0	3.06	3.75	3.80
## 1674	3.76	409	0	0	3.70	3.75	3.80
## 1675	3.75	405	0	0	3.68	3.75	3.78
## 1676	3.75	401	0	0	3.68	3.74	3.78
## 1677	3.75	405	0	0	3.69	3.74	3.78
## 1678	3.75	411	0	0	3.69	3.74	3.79
## 1679	3.75	429	0	0	3.70	3.75	3.80
## 1680	3.77	441	0	0	3.65	3.75	3.80
## 1681	3.77	423	0	0	3.70	3.76	3.80
## 1682	3.77	419	0	0	3.70	3.76	3.80
## 1683	3.76	411	0	0	3.70	3.76	3.80
## 1684	3.76	404	0	0	3.68	3.75	3.80
## 1685	3.76	412	0	0	3.70	3.75	3.80
## 1686	3.76	381	0	0	3.67	3.75	3.80
## 1687	3.76	398	0	0	3.70	3.75	3.80
## 1688	3.77	411	0	0	3.70	3.75	3.80
## 1689	3.77	409	0	0	3.70	3.76	3.80
## 1690	3.79	414	0	0	3.65	3.77	3.80
## 1691	3.78	442	0	0	3.72	3.77	3.80
## 1692	3.78	431	0	0	3.70	3.77	3.80
## 1693	3.78	415	0	0	3.70	3.77	3.80
## 1694	3.77	417	0	0	3.70	3.76	3.80
## 1695	3.76	411	0	0	3.70	3.75	3.80
## 1696	3.76	418	0	0	3.70	3.75	3.80
## 1697	3.76	418	0	0	3.68	3.75	3.80
## 1698	3.76	409	0	0	3.71	3.75	3.80
## 1699	3.76	412	0	0	3.68	3.75	3.80
## 1700	3.76	411	0	0	3.70	3.75	3.80
## 1701	4.27	417	0	0	3.81	4.25	4.30
## 1702	4.28	414	0	0	4.22	4.27	4.30
## 1703	4.27	414	0	0	4.20	4.26	4.30
## 1704	4.26	398	0	0	2.50	4.25	4.30
## 1705	4.26	388	0	0	4.20	4.25	4.30
## 1706	4.26	391	0	0	2.75	4.25	4.30
## 1707	4.26	364	0	0	4.20	4.25	4.30
## 1708	4.27	389	0	0	2.50	4.25	4.30
## 1709	4.26	379	0	0	4.13	4.25	4.30
## 1710	4.26	380	0	0	2.50	4.25	4.30
##	PercentileB99	SOFR	VolumeSOFR	TargetD	TargetU	PercentileS1	PercentileS25
## 1	0.00	0.36	75	0.25	0.50	0.34	0.36
## 2	0.00	0.36	72	0.25	0.50	0.34	0.36
## 3	0.00	0.36	72	0.25	0.50	0.32	0.36
## 4	0.00	0.36	75	0.25	0.50	0.34	0.36
## 5	0.00	0.36	72	0.25	0.50	0.35	0.36
## 6	0.00	0.36	68	0.25	0.50	0.35	0.36
## 7	0.00	0.36	67	0.25	0.50	0.35	0.36
## 8	0.00	0.37	67	0.25	0.50	0.35	0.36
## 9	0.00	0.37	63	0.25	0.50	0.35	0.36

## 10	0.00 0.37	63	0.25	0.50	0.36	0.36
## 11	0.00 0.37	66	0.25	0.50	0.32	0.36
## 12	0.00 0.37	61	0.25	0.50	0.35	0.36
## 13	0.00 0.37	66	0.25	0.50	0.33	0.36
## 14	0.00 0.37	65	0.25	0.50	0.32	0.36
## 15	0.00 0.37	64	0.25	0.50	0.35	0.36
## 16	0.00 0.37	68	0.25	0.50	0.30	0.36
## 17	0.00 0.37	66	0.25	0.50	0.35	0.36
## 18	0.00 0.37	69	0.25	0.50	0.30	0.36
## 19	0.00 0.37	73	0.25	0.50	0.35	0.36
## 20	0.00 0.25	50	0.25	0.50	0.20	0.25
## 21	0.00 0.37	72	0.25	0.50	0.34	0.36
## 22	0.00 0.37	74	0.25	0.50	0.35	0.36
## 23	0.00 0.37	77	0.25	0.50	0.35	0.36
## 24	0.00 0.37	76	0.25	0.50	0.35	0.36
## 25	0.00 0.37	79	0.25	0.50	0.35	0.36
## 26	0.00 0.37	74	0.25	0.50	0.33	0.36
## 27	0.00 0.37	72	0.25	0.50	0.35	0.36
## 28	0.00 0.37	74	0.25	0.50	0.35	0.36
## 29	0.00 0.37	73	0.25	0.50	0.33	0.36
## 30	0.00 0.37	71	0.25	0.50	0.35	0.37
## 31	0.00 0.37	70	0.25	0.50	0.36	0.37
## 32	0.00 0.37	69	0.25	0.50	0.36	0.37
## 33	0.00 0.37	66	0.25	0.50	0.36	0.37
## 34	0.00 0.37	62	0.25	0.50	0.33	0.37
## 35	0.00 0.37	65	0.25	0.50	0.36	0.37
## 36	0.00 0.37	59	0.25	0.50	0.36	0.37
## 37	0.00 0.37	59	0.25	0.50	0.36	0.37
## 38	0.00 0.37	54	0.25	0.50	0.35	0.37
## 39	0.00 0.37	63	0.25	0.50	0.36	0.37
## 40	0.00 0.37	62	0.25	0.50	0.36	0.37
## 41	0.00 0.30	58	0.25	0.50	0.27	0.29
## 42	0.00 0.37	59	0.25	0.50	0.33	0.37
## 43	0.00 0.37	61	0.25	0.50	0.36	0.37
## 44	0.00 0.37	62	0.25	0.50	0.36	0.37
## 45	0.00 0.37	60	0.25	0.50	0.36	0.37
## 46	0.00 0.37	64	0.25	0.50	0.36	0.37
## 47	0.00 0.37	62	0.25	0.50	0.35	0.37
## 48	0.00 0.37	63	0.25	0.50	0.36	0.37
## 49	0.00 0.37	63	0.25	0.50	0.36	0.37
## 50	0.00 0.37	61	0.25	0.50	0.36	0.37
## 51	0.00 0.37	61	0.25	0.50	0.36	0.37
## 52	0.00 0.37	61	0.25	0.50	0.36	0.37
## 53	0.00 0.37	62	0.25	0.50	0.36	0.37
## 54	0.00 0.37	59	0.25	0.50	0.36	0.37
## 55	0.00 0.37	64	0.25	0.50	0.34	0.37
## 56	0.00 0.37	70	0.25	0.50	0.36	0.37
## 57	0.00 0.37	66	0.25	0.50	0.36	0.37
## 58	0.00 0.37	65	0.25	0.50	0.36	0.37
## 59	0.00 0.37	70	0.25	0.50	0.35	0.37
## 60	0.00 0.37	68	0.25	0.50	0.36	0.37
## 61	0.00 0.37	69	0.25	0.50	0.36	0.37
## 62	0.00 0.29	58	0.25	0.50	0.26	0.28
## 63	0.00 0.37	67	0.25	0.50	0.36	0.37



## 64	0.00 0.37	70	0.25	0.50	0.36	0.37
## 65	0.00 0.37	69	0.25	0.50	0.35	0.37
## 66	0.00 0.37	70	0.25	0.50	0.36	0.37
## 67	0.00 0.37	71	0.25	0.50	0.36	0.37
## 68	0.00 0.37	75	0.25	0.50	0.36	0.37
## 69	0.00 0.37	75	0.25	0.50	0.31	0.37
## 70	0.00 0.37	72	0.25	0.50	0.36	0.37
## 71	0.00 0.37	66	0.25	0.50	0.36	0.37
## 72	0.00 0.37	68	0.25	0.50	0.36	0.37
## 73	0.00 0.37	69	0.25	0.50	0.36	0.37
## 74	0.00 0.38	72	0.25	0.50	0.36	0.37
## 75	0.00 0.38	73	0.25	0.50	0.36	0.38
## 76	0.00 0.38	70	0.25	0.50	0.36	0.38
## 77	0.00 0.38	68	0.25	0.50	0.37	0.38
## 78	0.00 0.38	71	0.25	0.50	0.36	0.38
## 79	0.00 0.39	71	0.25	0.50	0.37	0.39
## 80	0.00 0.40	70	0.25	0.50	0.38	0.40
## 81	0.00 0.41	66	0.25	0.50	0.38	0.40
## 82	0.00 0.41	66	0.25	0.50	0.39	0.40
## 83	0.00 0.41	63	0.25	0.50	0.39	0.40
## 84	0.00 0.30	46	0.25	0.50	0.25	0.29
## 85	0.00 0.41	68	0.25	0.50	0.30	0.40
## 86	0.00 0.40	72	0.25	0.50	0.38	0.40
## 87	0.00 0.40	68	0.25	0.50	0.37	0.40
## 88	0.00 0.40	68	0.25	0.50	0.37	0.40
## 89	0.00 0.40	67	0.25	0.50	0.37	0.40
## 90	0.00 0.40	65	0.25	0.50	0.38	0.40
## 91	0.00 0.40	63	0.25	0.50	0.36	0.40
## 92	0.00 0.40	64	0.25	0.50	0.38	0.40
## 93	0.00 0.40	62	0.25	0.50	0.34	0.40
## 94	0.00 0.40	71	0.25	0.50	0.33	0.40
## 95	0.00 0.40	65	0.25	0.50	0.35	0.40
## 96	0.00 0.40	74	0.25	0.50	0.34	0.40
## 97	0.00 0.40	70	0.25	0.50	0.38	0.40
## 98	0.00 0.40	72	0.25	0.50	0.35	0.40
## 99	0.00 0.40	72	0.25	0.50	0.35	0.40
## 100	0.00 0.40	70	0.25	0.50	0.35	0.40
## 101	0.00 0.40	69	0.25	0.50	0.35	0.40
## 102	0.00 0.40	64	0.25	0.50	0.33	0.40
## 103	0.00 0.40	63	0.25	0.50	0.27	0.40
## 104	0.00 0.30	62	0.25	0.50	0.20	0.30
## 105	0.00 0.40	69	0.25	0.50	0.31	0.40
## 106	0.00 0.40	63	0.25	0.50	0.32	0.40
## 107	0.00 0.40	69	0.25	0.50	0.31	0.40
## 108	0.00 0.40	70	0.25	0.50	0.27	0.40
## 109	0.00 0.40	66	0.25	0.50	0.38	0.40
## 110	0.00 0.40	67	0.25	0.50	0.36	0.40
## 111	0.00 0.40	67	0.25	0.50	0.27	0.40
## 112	0.00 0.40	61	0.25	0.50	0.30	0.40
## 113	0.00 0.40	64	0.25	0.50	0.31	0.40
## 114	0.00 0.40	63	0.25	0.50	0.30	0.40
## 115	0.00 0.40	67	0.25	0.50	0.30	0.40
## 116	0.00 0.40	64	0.25	0.50	0.27	0.40
## 117	0.00 0.40	64	0.25	0.50	0.30	0.40

## 118	0.00 0.40	64	0.25	0.50	0.30	0.40
## 119	0.00 0.30	310	0.31	339.00	0.39	677.00
## 120	0.00 0.40	60	0.25	0.50	0.36	0.40
## 121	0.00 0.40	69	0.25	0.50	0.36	0.40
## 122	0.00 0.40	64	0.25	0.50	0.31	0.40
## 123	0.00 0.40	67	0.25	0.50	0.27	0.40
## 124	0.00 0.40	74	0.25	0.50	0.27	0.40
## 125	0.00 0.40	70	0.25	0.50	0.27	0.40
## 126	0.00 0.40	67	0.25	0.50	0.27	0.40
## 127	0.00 0.30	64	0.25	0.50	0.19	0.30
## 128	0.00 0.40	63	0.25	0.50	0.31	0.40
## 129	0.00 0.40	68	0.25	0.50	0.31	0.40
## 130	0.00 0.40	65	0.25	0.50	0.31	0.40
## 131	0.00 0.40	66	0.25	0.50	0.31	0.40
## 132	0.00 0.40	68	0.25	0.50	0.31	0.40
## 133	0.00 0.40	65	0.25	0.50	0.27	0.40
## 134	0.00 0.40	63	0.25	0.50	0.31	0.40
## 135	0.00 0.40	60	0.25	0.50	0.36	0.40
## 136	0.00 0.40	59	0.25	0.50	0.36	0.40
## 137	0.00 0.40	63	0.25	0.50	0.30	0.40
## 138	0.00 0.40	60	0.25	0.50	0.36	0.40
## 139	0.00 0.40	59	0.25	0.50	0.36	0.40
## 140	0.00 0.40	57	0.25	0.50	0.36	0.40
## 141	0.00 0.40	61	0.25	0.50	0.36	0.40
## 142	0.00 0.40	62	0.25	0.50	0.36	0.40
## 143	0.00 0.40	61	0.25	0.50	0.36	0.40
## 144	0.00 0.40	63	0.25	0.50	0.36	0.40
## 145	0.00 0.40	64	0.25	0.50	0.35	0.40
## 146	0.00 0.40	70	0.25	0.50	0.26	0.40
## 147	0.00 0.40	67	0.25	0.50	0.36	0.40
## 148	0.00 0.29	58	0.25	0.50	0.26	0.28
## 149	0.00 0.40	66	0.25	0.50	0.26	0.40
## 150	0.00 0.40	61	0.25	0.50	0.26	0.40
## 151	0.00 0.40	63	0.25	0.50	0.26	0.40
## 152	0.00 0.40	65	0.25	0.50	0.26	0.40
## 153	0.00 0.40	66	0.25	0.50	0.26	0.40
## 154	0.00 0.41	63	0.25	0.50	0.30	0.40
## 155	0.00 0.41	70	0.25	0.50	0.26	0.40
## 156	0.00 0.41	67	0.25	0.50	0.26	0.40
## 157	0.00 0.41	66	0.25	0.50	0.36	0.40
## 158	0.00 0.41	62	0.25	0.50	0.26	0.40
## 159	0.00 0.41	67	0.25	0.50	0.26	0.40
## 160	0.00 0.41	66	0.25	0.50	0.26	0.40
## 161	0.00 0.41	70	0.25	0.50	0.26	0.40
## 162	0.00 0.41	70	0.25	0.50	0.26	0.40
## 163	0.00 0.41	65	0.25	0.50	0.26	0.40
## 164	0.00 0.41	73	0.25	0.50	0.34	0.40
## 165	0.00 0.41	66	0.25	0.50	0.26	0.40
## 166	0.00 0.41	65	0.25	0.50	0.26	0.40
## 167	0.00 0.41	67	0.25	0.50	0.30	0.40
## 168	0.00 0.31	61	0.25	0.50	0.25	0.30
## 169	0.00 0.41	63	0.25	0.50	0.30	0.40
## 170	0.00 0.41	67	0.25	0.50	0.30	0.40
## 171	0.00 0.41	63	0.25	0.50	0.36	0.40

## 172	0.00 0.41	65	0.25	0.50	0.30	0.40
## 173	0.00 0.41	62	0.25	0.50	0.36	0.40
## 174	0.00 0.41	61	0.25	0.50	0.36	0.40
## 175	0.00 0.41	65	0.25	0.50	0.30	0.40
## 176	0.00 0.41	64	0.25	0.50	0.36	0.40
## 177	0.00 0.41	59	0.25	0.50	0.36	0.40
## 178	0.00 0.41	66	0.25	0.50	0.31	0.41
## 179	0.00 0.41	70	0.25	0.50	0.36	0.41
## 180	0.00 0.41	73	0.25	0.50	0.32	0.41
## 181	0.00 0.41	72	0.25	0.50	0.30	0.41
## 182	0.00 0.41	76	0.25	0.50	0.36	0.41
## 183	0.00 0.41	77	0.25	0.50	0.30	0.41
## 184	0.00 0.41	78	0.25	0.50	0.30	0.41
## 185	0.00 0.41	76	0.25	0.50	0.30	0.41
## 186	0.00 0.41	69	0.25	0.50	0.36	0.41
## 187	0.00 0.41	75	0.25	0.50	0.30	0.41
## 188	0.00 0.31	68	0.25	0.50	0.28	0.31
## 189	0.00 0.41	81	0.25	0.50	0.25	0.41
## 190	0.00 0.41	81	0.25	0.50	0.25	0.41
## 191	0.00 0.41	77	0.25	0.50	0.30	0.41
## 192	0.00 0.41	75	0.25	0.50	0.30	0.41
## 193	0.00 0.41	76	0.25	0.50	0.30	0.41
## 194	0.00 0.41	75	0.25	0.50	0.30	0.41
## 195	0.00 0.41	68	0.25	0.50	0.30	0.41
## 196	0.00 0.41	71	0.25	0.50	0.30	0.41
## 197	0.00 0.41	73	0.25	0.50	0.34	0.41
## 198	0.00 0.41	78	0.25	0.50	0.30	0.41
## 199	0.00 0.66	74	0.50	0.75	0.41	0.66
## 200	0.00 0.66	72	0.50	0.75	0.59	0.66
## 201	0.00 0.66	69	0.50	0.75	0.60	0.66
## 202	0.00 0.66	70	0.50	0.75	0.63	0.66
## 203	0.00 0.66	73	0.50	0.75	0.63	0.66
## 204	0.00 0.66	73	0.50	0.75	0.53	0.66
## 205	0.00 0.66	73	0.50	0.75	0.63	0.66
## 206	0.00 0.66	74	0.50	0.75	0.50	0.66
## 207	0.00 0.66	74	0.50	0.75	0.54	0.66
## 208	0.00 0.66	73	0.50	0.75	0.50	0.66
## 209	0.00 0.55	48	0.50	0.75	0.50	0.52
## 210	0.00 0.66	80	0.50	0.75	0.50	0.66
## 211	0.00 0.66	79	0.50	0.75	0.50	0.66
## 212	0.00 0.66	77	0.50	0.75	0.50	0.66
## 213	0.00 0.66	79	0.50	0.75	0.50	0.66
## 214	0.00 0.66	74	0.50	0.75	0.50	0.66
## 215	0.00 0.66	77	0.50	0.75	0.50	0.66
## 216	0.00 0.66	80	0.50	0.75	0.63	0.66
## 217	0.00 0.66	84	0.50	0.75	0.50	0.66
## 218	0.00 0.66	74	0.50	0.75	0.64	0.66
## 219	0.00 0.66	68	0.50	0.75	0.64	0.66
## 220	0.00 0.66	69	0.50	0.75	0.64	0.66
## 221	0.00 0.66	68	0.50	0.75	0.63	0.66
## 222	0.00 0.66	70	0.50	0.75	0.64	0.66
## 223	0.00 0.66	64	0.50	0.75	0.64	0.66
## 224	0.00 0.66	66	0.50	0.75	0.64	0.66
## 225	0.00 0.66	72	0.50	0.75	0.64	0.66

## 226	0.00 0.66	80	0.50	0.75	0.64	0.66
## 227	0.00 0.66	77	0.50	0.75	0.64	0.66
## 228	0.00 0.66	71	0.50	0.75	0.65	0.66
## 229	0.00 0.56	74	0.50	0.75	0.55	0.56
## 230	0.00 0.66	80	0.50	0.75	0.62	0.66
## 231	0.00 0.66	82	0.50	0.75	0.63	0.66
## 232	0.00 0.66	82	0.50	0.75	0.62	0.66
## 233	0.00 0.66	82	0.50	0.75	0.62	0.66
## 234	0.00 0.66	75	0.50	0.75	0.60	0.66
## 235	0.00 0.66	80	0.50	0.75	0.64	0.66
## 236	0.00 0.66	76	0.50	0.75	0.64	0.66
## 237	0.00 0.66	78	0.50	0.75	0.64	0.66
## 238	0.00 0.66	75	0.50	0.75	0.60	0.66
## 239	0.00 0.66	73	0.50	0.75	0.64	0.66
## 240	0.00 0.66	79	0.50	0.75	0.60	0.66
## 241	0.00 0.66	81	0.50	0.75	0.63	0.66
## 242	0.00 0.66	82	0.50	0.75	0.64	0.66
## 243	0.00 0.66	74	0.50	0.75	0.60	0.66
## 244	0.00 0.66	81	0.50	0.75	0.55	0.66
## 245	0.00 0.66	88	0.50	0.75	0.55	0.66
## 246	0.00 0.66	87	0.50	0.75	0.55	0.66
## 247	0.00 0.66	85	0.50	0.75	0.60	0.66
## 248	0.00 0.57	86	0.50	0.75	0.55	0.56
## 249	0.00 0.66	84	0.50	0.75	0.60	0.66
## 250	0.00 0.66	85	0.50	0.75	0.53	0.66
## 251	0.00 0.66	88	0.50	0.75	0.60	0.66
## 252	0.00 0.66	83	0.50	0.75	0.60	0.66
## 253	0.00 0.66	83	0.50	0.75	0.62	0.66
## 254	0.00 0.66	84	0.50	0.75	0.64	0.66
## 255	0.00 0.66	86	0.50	0.75	0.64	0.66
## 256	0.00 0.66	84	0.50	0.75	0.58	0.66
## 257	0.00 0.66	83	0.50	0.75	0.55	0.66
## 258	0.00 0.66	79	0.50	0.75	0.60	0.66
## 259	0.00 0.66	88	0.50	0.75	0.55	0.66
## 260	0.00 0.91	85	0.75	1.00	0.80	0.91
## 261	0.00 0.91	83	0.75	1.00	0.80	0.91
## 262	0.00 0.91	80	0.75	1.00	0.89	0.91
## 263	0.00 0.91	83	0.75	1.00	0.80	0.91
## 264	0.00 0.91	81	0.75	1.00	0.80	0.91
## 265	0.00 0.91	80	0.75	1.00	0.85	0.91
## 266	0.00 0.91	85	0.75	1.00	0.83	0.91
## 267	0.00 0.91	84	0.75	1.00	0.89	0.91
## 268	0.00 0.91	86	0.75	1.00	0.80	0.91
## 269	0.00 0.91	84	0.75	1.00	0.89	0.91
## 270	0.00 0.91	79	0.75	1.00	0.83	0.91
## 271	0.00 0.82	74	0.75	1.00	0.75	0.80
## 272	0.00 0.91	82	0.75	1.00	0.77	0.91
## 273	0.00 0.91	81	0.75	1.00	0.80	0.91
## 274	0.00 0.91	76	0.75	1.00	0.83	0.91
## 275	0.00 0.91	79	0.75	1.00	0.85	0.91
## 276	0.00 0.91	78	0.75	1.00	0.80	0.91
## 277	0.00 0.91	74	0.75	1.00	0.80	0.91
## 278	0.00 0.91	75	0.75	1.00	0.80	0.91
## 279	0.00 0.91	78	0.75	1.00	0.80	0.91

## 280	0.00 0.91	78	0.75	1.00	0.80	0.91
## 281	0.00 0.91	80	0.75	1.00	0.80	0.91
## 282	0.00 0.91	73	0.75	1.00	0.83	0.91
## 283	0.00 0.91	68	0.75	1.00	0.89	0.91
## 284	0.00 0.91	73	0.75	1.00	0.90	0.91
## 285	0.00 0.91	76	0.75	1.00	0.90	0.91
## 286	0.00 0.91	73	0.75	1.00	0.89	0.91
## 287	0.00 0.91	69	0.75	1.00	0.90	0.91
## 288	0.00 0.91	68	0.75	1.00	0.89	0.91
## 289	0.00 0.91	74	0.75	1.00	0.89	0.91
## 290	0.00 0.91	72	0.75	1.00	0.82	0.91
## 291	0.00 0.83	65	0.75	1.00	0.80	0.82
## 292	0.00 0.91	70	0.75	1.00	0.89	0.91
## 293	0.00 0.91	71	0.75	1.00	0.90	0.91
## 294	0.00 0.91	75	0.75	1.00	0.89	0.91
## 295	0.00 0.91	74	0.75	1.00	0.90	0.91
## 296	0.00 0.91	79	0.75	1.00	0.90	0.91
## 297	0.00 0.91	78	0.75	1.00	0.89	0.91
## 298	0.00 0.91	74	0.75	1.00	0.89	0.91
## 299	0.00 0.91	73	0.75	1.00	0.89	0.91
## 300	0.00 0.91	73	0.75	1.00	0.89	0.91
## 301	0.00 0.91	78	0.75	1.00	0.89	0.91
## 302	0.00 0.91	83	0.75	1.00	0.89	0.91
## 303	0.00 0.91	79	0.75	1.00	0.85	0.91
## 304	0.00 0.91	80	0.75	1.00	0.89	0.91
## 305	0.00 0.91	73	0.75	1.00	0.90	0.91
## 306	0.00 0.91	82	0.75	1.00	0.90	0.91
## 307	0.00 0.91	80	0.75	1.00	0.90	0.91
## 308	0.00 0.91	79	0.75	1.00	0.90	0.91
## 309	0.00 0.91	79	0.75	1.00	0.90	0.91
## 310	0.00 0.91	86	0.75	1.00	0.90	0.91
## 311	0.00 0.91	85	0.75	1.00	0.90	0.91
## 312	0.00 0.91	86	0.75	1.00	0.90	0.91
## 313	0.00 0.83	79	0.75	1.00	0.81	0.82
## 314	0.00 0.91	84	0.75	1.00	0.80	0.91
## 315	0.00 0.91	92	0.75	1.00	0.90	0.91
## 316	0.00 0.91	88	0.75	1.00	0.90	0.91
## 317	0.00 0.91	86	0.75	1.00	0.90	0.91
## 318	0.00 0.91	86	0.75	1.00	0.90	0.91
## 319	0.00 0.91	87	0.75	1.00	0.90	0.91
## 320	0.00 0.91	84	0.75	1.00	0.90	0.91
## 321	0.00 0.91	80	0.75	1.00	0.89	0.91
## 322	0.00 0.91	79	0.75	1.00	0.90	0.91
## 323	0.00 0.91	75	0.75	1.00	0.89	0.91
## 324	0.00 1.16	73	1.00	1.25	1.15	1.16
## 325	0.00 1.16	72	1.00	1.25	1.15	1.16
## 326	0.00 1.16	74	1.00	1.25	1.15	1.16
## 327	0.00 1.16	79	1.00	1.25	1.14	1.16
## 328	0.00 1.16	79	1.00	1.25	1.15	1.16
## 329	0.00 1.16	78	1.00	1.25	1.15	1.16
## 330	0.00 1.16	83	1.00	1.25	1.15	1.16
## 331	0.00 1.16	81	1.00	1.25	1.15	1.16
## 332	0.00 1.16	82	1.00	1.25	1.15	1.16
## 333	0.00 1.16	86	1.00	1.25	1.15	1.16

## 334	0.00 1.16	88	1.00	1.25	1.15	1.16
## 335	0.00 1.06	72	1.00	1.25	1.02	1.05
## 336	0.00 1.16	85	1.00	1.25	1.14	1.16
## 337	0.00 1.16	83	1.00	1.25	1.05	1.16
## 338	0.00 1.16	82	1.00	1.25	1.15	1.16
## 339	0.00 1.16	89	1.00	1.25	1.15	1.16
## 340	0.00 1.16	89	1.00	1.25	1.15	1.16
## 341	0.00 1.16	92	1.00	1.25	1.14	1.16
## 342	0.00 1.16	92	1.00	1.25	1.15	1.16
## 343	0.00 1.16	89	1.00	1.25	1.15	1.16
## 344	0.00 1.16	91	1.00	1.25	1.14	1.16
## 345	0.00 1.16	92	1.00	1.25	1.12	1.16
## 346	0.00 1.16	87	1.00	1.25	1.12	1.16
## 347	0.00 1.16	85	1.00	1.25	1.15	1.16
## 348	0.00 1.16	88	1.00	1.25	1.15	1.16
## 349	0.00 1.16	90	1.00	1.25	1.15	1.16
## 350	0.00 1.16	88	1.00	1.25	1.15	1.16
## 351	0.00 1.16	92	1.00	1.25	1.15	1.16
## 352	0.00 1.16	89	1.00	1.25	1.14	1.16
## 353	0.00 1.16	99	1.00	1.25	1.15	1.16
## 354	0.00 1.16	100	1.00	1.25	1.14	1.16
## 355	0.00 1.07	94	1.00	1.25	1.04	1.07
## 356	0.00 1.16	100	1.00	1.25	1.10	1.16
## 357	0.00 1.16	106	1.00	1.25	1.15	1.16
## 358	0.00 1.16	106	1.00	1.25	1.15	1.16
## 359	0.00 1.16	102	1.00	1.25	1.15	1.16
## 360	0.00 1.16	102	1.00	1.25	1.14	1.16
## 361	0.00 1.16	102	1.00	1.25	1.14	1.16
## 362	0.00 1.16	96	1.00	1.25	1.15	1.16
## 363	0.00 1.16	98	1.00	1.25	1.14	1.16
## 364	0.00 1.16	97	1.00	1.25	1.10	1.16
## 365	0.00 1.16	95	1.00	1.25	1.14	1.16
## 366	0.00 1.16	93	1.00	1.25	1.14	1.16
## 367	0.00 1.16	101	1.00	1.25	1.14	1.16
## 368	0.00 1.16	95	1.00	1.25	1.15	1.16
## 369	0.00 1.16	94	1.00	1.25	1.15	1.16
## 370	0.00 1.16	92	1.00	1.25	1.14	1.16
## 371	0.00 1.16	93	1.00	1.25	1.10	1.16
## 372	0.00 1.16	93	1.00	1.25	1.14	1.16
## 373	0.00 1.16	90	1.00	1.25	1.14	1.16
## 374	0.00 1.16	97	1.00	1.25	1.14	1.16
## 375	0.00 1.16	92	1.00	1.25	1.14	1.16
## 376	0.00 1.16	92	1.00	1.25	1.10	1.16
## 377	0.00 1.16	95	1.00	1.25	1.15	1.16
## 378	0.00 1.07	91	1.00	1.25	1.05	1.07
## 379	0.00 1.16	97	1.00	1.25	1.15	1.16
## 380	0.00 1.16	93	1.00	1.25	1.14	1.16
## 381	0.00 1.16	93	1.00	1.25	1.13	1.16
## 382	0.00 1.16	89	1.00	1.25	1.15	1.16
## 383	0.00 1.16	92	1.00	1.25	1.15	1.16
## 384	0.00 1.16	90	1.00	1.25	1.15	1.16
## 385	0.00 1.16	93	1.00	1.25	1.15	1.16
## 386	0.00 1.16	95	1.00	1.25	1.13	1.16
## 387	0.00 1.16	84	1.00	1.25	1.13	1.16

## 388	0.00 1.16	92	1.00	1.25	1.10	1.16
## 389	0.00 1.16	83	1.00	1.25	1.15	1.16
## 390	0.00 1.16	81	1.00	1.25	1.15	1.16
## 391	0.00 1.16	81	1.00	1.25	1.15	1.16
## 392	0.00 1.16	83	1.00	1.25	1.15	1.16
## 393	0.00 1.16	96	1.00	1.25	1.13	1.16
## 394	0.00 1.16	96	1.00	1.25	1.15	1.16
## 395	0.00 1.16	93	1.00	1.25	1.05	1.16
## 396	0.00 1.16	98	1.00	1.25	1.13	1.16
## 397	0.00 1.16	98	1.00	1.25	1.11	1.16
## 398	0.00 1.06	84	1.00	1.25	1.03	1.05
## 399	0.00 1.16	93	1.00	1.25	1.05	1.16
## 400	0.00 1.16	91	1.00	1.25	1.14	1.16
## 401	0.00 1.16	93	1.00	1.25	1.05	1.16
## 402	0.00 1.16	94	1.00	1.25	1.11	1.16
## 403	0.00 1.16	95	1.00	1.25	1.14	1.16
## 404	0.00 1.16	91	1.00	1.25	1.15	1.16
## 405	0.00 1.16	90	1.00	1.25	1.14	1.16
## 406	0.00 1.16	87	1.00	1.25	1.15	1.16
## 407	0.00 1.16	92	1.00	1.25	1.15	1.16
## 408	0.00 1.16	91	1.00	1.25	1.15	1.16
## 409	0.00 1.16	86	1.00	1.25	1.15	1.16
## 410	0.00 1.16	87	1.00	1.25	1.15	1.16
## 411	0.00 1.16	86	1.00	1.25	1.14	1.16
## 412	0.00 1.16	86	1.00	1.25	1.15	1.16
## 413	0.00 1.16	85	1.00	1.25	1.14	1.16
## 414	0.00 1.16	90	1.00	1.25	1.15	1.16
## 415	0.00 1.16	93	1.00	1.25	1.15	1.16
## 416	0.00 1.16	97	1.00	1.25	1.15	1.16
## 417	0.00 1.16	97	1.00	1.25	1.15	1.16
## 418	0.00 1.16	92	1.00	1.25	1.15	1.16
## 419	0.00 1.07	93	1.00	1.25	1.05	1.07
## 420	0.00 1.16	99	1.00	1.25	1.12	1.16
## 421	0.00 1.16	96	1.00	1.25	1.15	1.16
## 422	0.00 1.16	98	1.00	1.25	1.14	1.16
## 423	0.00 1.16	94	1.00	1.25	1.14	1.16
## 424	0.00 1.16	98	1.00	1.25	1.14	1.16
## 425	0.00 1.16	97	1.00	1.25	1.15	1.16
## 426	0.00 1.16	97	1.00	1.25	1.14	1.16
## 427	0.00 1.16	98	1.00	1.25	1.14	1.16
## 428	0.00 1.16	93	1.00	1.25	1.14	1.16
## 429	0.00 1.16	86	1.00	1.25	1.14	1.16
## 430	0.00 1.16	89	1.00	1.25	1.14	1.16
## 431	0.00 1.16	84	1.00	1.25	1.13	1.16
## 432	0.00 1.16	84	1.00	1.25	1.14	1.16
## 433	0.00 1.16	90	1.00	1.25	1.14	1.16
## 434	0.00 1.16	90	1.00	1.25	1.05	1.16
## 435	0.00 1.16	86	1.00	1.25	1.14	1.16
## 436	0.00 1.16	84	1.00	1.25	1.13	1.16
## 437	0.00 1.16	88	1.00	1.25	1.14	1.16
## 438	0.00 1.16	87	1.00	1.25	1.14	1.16
## 439	0.00 1.16	89	1.00	1.25	1.14	1.16
## 440	0.00 1.07	81	1.00	1.25	1.05	1.07
## 441	0.00 1.16	101	1.00	1.25	1.05	1.16

## 442	0.00 1.16	94	1.00	1.25	1.15	1.16
## 443	0.00 1.16	93	1.00	1.25	1.14	1.16
## 444	0.00 1.16	90	1.00	1.25	1.15	1.16
## 445	0.00 1.16	93	1.00	1.25	1.15	1.16
## 446	0.00 1.16	94	1.00	1.25	1.10	1.16
## 447	0.00 1.16	92	1.00	1.25	1.15	1.16
## 448	0.00 1.17	94	1.00	1.25	1.15	1.16
## 449	0.00 1.17	97	1.00	1.25	1.15	1.16
## 450	0.00 1.41	85	1.25	1.50	1.39	1.41
## 451	0.00 1.41	91	1.25	1.50	1.39	1.41
## 452	0.00 1.42	84	1.25	1.50	1.39	1.41
## 453	0.00 1.42	89	1.25	1.50	1.39	1.41
## 454	0.00 1.42	91	1.25	1.50	1.35	1.41
## 455	0.00 1.42	89	1.25	1.50	1.35	1.41
## 456	0.00 1.42	89	1.25	1.50	1.35	1.41
## 457	0.00 1.42	91	1.25	1.50	1.39	1.41
## 458	0.00 1.42	95	1.25	1.50	1.40	1.41
## 459	0.00 1.42	93	1.25	1.50	1.40	1.41
## 460	0.00 1.33	62	1.25	1.50	1.28	1.30
## 461	0.00 1.42	84	1.25	1.50	1.35	1.41
## 462	0.00 1.42	93	1.25	1.50	1.40	1.41
## 463	0.00 1.42	92	1.25	1.50	1.35	1.41
## 464	0.00 1.42	98	1.25	1.50	1.30	1.41
## 465	0.00 1.42	93	1.25	1.50	1.40	1.41
## 466	0.00 1.42	94	1.25	1.50	1.40	1.41
## 467	0.00 1.42	97	1.25	1.50	1.40	1.41
## 468	0.00 1.42	95	1.25	1.50	1.40	1.41
## 469	0.00 1.42	95	1.25	1.50	1.40	1.41
## 470	0.00 1.42	88	1.25	1.50	1.40	1.41
## 471	0.00 1.42	93	1.25	1.50	1.40	1.42
## 472	0.00 1.42	86	1.25	1.50	1.40	1.42
## 473	0.00 1.42	86	1.25	1.50	1.40	1.42
## 474	0.00 1.42	87	1.25	1.50	1.40	1.42
## 475	0.00 1.42	91	1.25	1.50	1.40	1.42
## 476	0.00 1.42	90	1.25	1.50	1.40	1.42
## 477	0.00 1.42	88	1.25	1.50	1.40	1.42
## 478	0.00 1.42	90	1.25	1.50	1.40	1.42
## 479	0.00 1.42	91	1.25	1.50	1.40	1.42
## 480	0.00 1.42	102	1.25	1.50	1.40	1.42
## 481	0.00 1.34	104	1.25	1.50	1.30	1.33
## 482	0.00 1.42	109	1.25	1.50	1.40	1.42
## 483	0.00 1.42	108	1.25	1.50	1.40	1.42
## 484	0.00 1.42	103	1.25	1.50	1.40	1.42
## 485	0.00 1.42	103	1.25	1.50	1.40	1.42
## 486	0.00 1.42	104	1.25	1.50	1.40	1.42
## 487	0.00 1.42	106	1.25	1.50	1.40	1.42
## 488	0.00 1.42	107	1.25	1.50	1.40	1.42
## 489	0.00 1.42	97	1.25	1.50	1.40	1.42
## 490	0.00 1.42	99	1.25	1.50	1.40	1.42
## 491	0.00 1.42	105	1.25	1.50	1.40	1.42
## 492	0.00 1.42	101	1.25	1.50	1.40	1.42
## 493	0.00 1.42	95	1.25	1.50	1.40	1.42
## 494	0.00 1.42	84	1.25	1.50	1.40	1.42
## 495	0.00 1.42	88	1.25	1.50	1.40	1.42



## 496	0.00 1.42	98	1.25	1.50	1.40	1.42
## 497	0.00 1.42	101	1.25	1.50	1.40	1.42
## 498	0.00 1.42	97	1.25	1.50	1.40	1.42
## 499	0.00 1.42	104	1.25	1.50	1.40	1.42
## 500	0.00 1.35	104	1.25	1.50	1.30	1.34
## 501	0.00 1.42	115	1.25	1.50	1.36	1.42
## 502	0.00 1.42	114	1.25	1.50	1.40	1.42
## 503	0.00 1.42	110	1.25	1.50	1.40	1.42
## 504	0.00 1.42	112	1.25	1.50	1.39	1.42
## 505	0.00 1.42	105	1.25	1.50	1.39	1.42
## 506	0.00 1.42	106	1.25	1.50	1.40	1.42
## 507	0.00 1.42	104	1.25	1.50	1.40	1.42
## 508	0.00 1.42	100	1.25	1.50	1.40	1.42
## 509	0.00 1.42	98	1.25	1.50	1.40	1.42
## 510	0.00 1.42	103	1.25	1.50	1.40	1.42
## 511	0.00 1.43	95	1.25	1.50	1.40	1.42
## 512	0.00 1.43	104	1.25	1.50	1.40	1.42
## 513	0.00 1.43	92	1.25	1.50	1.40	1.42
## 514	0.00 1.44	91	1.25	1.50	1.40	1.43
## 515	0.00 1.44	93	1.25	1.50	1.40	1.43
## 516	0.00 1.68	78	1.50	1.75	1.65	1.68
## 517	0.00 1.68	78	1.50	1.75	1.65	1.68
## 518	0.00 1.68	83	1.50	1.75	1.65	1.68
## 519	0.00 1.68	81	1.50	1.75	1.65	1.68
## 520	0.00 1.68	87	1.50	1.75	1.65	1.68
## 521	2.25 1.80	50	0.25	0.50	0.50	0.66
## 522	2.00 1.68	89	1.50	1.75	1.65	1.68
## 523	1.84 1.69	90	1.50	1.75	1.65	1.68
## 524	1.85 1.69	83	1.50	1.75	1.65	1.68
## 525	1.84 1.69	88	1.50	1.75	1.65	1.68
## 526	1.85 1.69	78	1.50	1.75	1.65	1.68
## 527	1.84 1.69	78	1.50	1.75	1.66	1.68
## 528	1.83 1.69	80	1.50	1.75	1.66	1.68
## 529	1.80 1.69	74	1.50	1.75	1.66	1.68
## 530	1.82 1.69	83	1.50	1.75	1.65	1.68
## 531	1.85 1.69	74	1.50	1.75	1.66	1.68
## 532	1.85 1.69	82	1.50	1.75	1.66	1.68
## 533	1.83 1.69	66	1.50	1.75	1.66	1.69
## 534	1.81 1.69	63	1.50	1.75	1.66	1.68
## 535	1.79 1.69	75	1.50	1.75	1.66	1.69
## 536	1.79 1.70	72	1.50	1.75	1.66	1.69
## 537	1.80 1.70	67	1.50	1.75	1.66	1.69
## 538	1.79 1.70	63	1.50	1.75	1.66	1.69
## 539	1.80 1.70	71	1.50	1.75	1.66	1.69
## 540	1.80 1.70	77	1.50	1.75	1.66	1.69
## 541	1.86 1.70	77	1.50	1.75	1.66	1.69
## 542	1.84 1.69	76	1.50	1.75	1.66	1.68
## 543	1.83 1.70	81	1.50	1.75	1.66	1.69
## 544	1.83 1.70	76	1.50	1.75	1.66	1.69
## 545	1.80 1.70	82	1.50	1.75	1.66	1.69
## 546	1.84 1.70	83	1.50	1.75	1.66	1.69
## 547	1.81 1.70	85	1.50	1.75	1.66	1.69
## 548	1.82 1.70	83	1.50	1.75	1.66	1.69
## 549	1.83 1.70	89	1.50	1.75	1.66	1.69

## 550	1.83 1.70	89	1.50	1.75	1.66	1.69
## 551	1.82 1.70	88	1.50	1.75	1.66	1.69
## 552	1.88 1.70	79	1.50	1.75	1.66	1.69
## 553	1.82 1.70	83	1.50	1.75	1.66	1.69
## 554	1.84 1.70	85	1.50	1.75	1.65	1.69
## 555	1.81 1.70	80	1.50	1.75	1.66	1.69
## 556	1.77 1.70	78	1.50	1.75	1.66	1.69
## 557	1.75 1.70	80	1.50	1.75	1.66	1.70
## 558	1.80 1.70	89	1.50	1.75	1.66	1.70
## 559	1.84 1.70	92	1.50	1.75	1.66	1.69
## 560	1.82 1.70	90	1.50	1.75	1.65	1.69
## 561	1.82 1.70	92	1.50	1.75	1.65	1.69
## 562	1.81 1.70	89	1.50	1.75	1.66	1.69
## 563	2.05 1.70	83	1.50	1.75	1.65	1.69
## 564	1.92 1.70	84	1.50	1.75	1.66	1.69
## 565	1.88 1.70	94	1.50	1.75	1.66	1.69
## 566	1.83 1.70	92	1.50	1.75	1.65	1.69
## 567	1.80 1.70	90	1.50	1.75	1.66	1.69
## 568	1.80 1.70	94	1.50	1.75	1.66	1.69
## 569	1.77 1.70	87	1.50	1.75	1.65	1.69
## 570	1.76 1.70	90	1.50	1.75	1.66	1.69
## 571	1.78 1.70	75	1.50	1.75	1.66	1.69
## 572	1.80 1.70	81	1.50	1.75	1.66	1.70
## 573	1.99 1.70	80	1.50	1.75	1.66	1.69
## 574	2.05 1.90	80	1.75	2.00	1.88	1.89
## 575	1.98 1.90	69	1.75	2.00	1.88	1.90
## 576	1.96 1.90	61	1.75	2.00	1.88	1.90
## 577	1.94 1.91	59	1.75	2.00	1.88	1.90
## 578	2.00 1.92	63	1.75	2.00	1.89	1.90
## 579	2.01 1.92	81	1.75	2.00	1.88	1.91
## 580	2.01 1.92	78	1.75	2.00	1.89	1.91
## 581	1.99 1.92	76	1.75	2.00	1.90	1.91
## 582	1.99 1.92	82	1.75	2.00	1.90	1.91
## 583	2.15 1.91	83	1.75	2.00	1.90	1.91
## 584	2.37 1.91	79	1.75	2.00	1.90	1.90
## 585	2.15 1.91	79	1.75	2.00	1.88	1.90
## 586	2.10 1.91	83	1.75	2.00	1.89	1.90
## 587	2.07 1.91	88	1.75	2.00	1.88	1.90
## 588	2.02 1.91	78	1.75	2.00	1.88	1.90
## 589	1.97 1.91	80	1.75	2.00	1.88	1.90
## 590	2.00 1.91	77	1.75	2.00	1.89	1.91
## 591	1.96 1.91	80	1.75	2.00	1.89	1.91
## 592	1.98 1.91	82	1.75	2.00	1.90	1.90
## 593	2.05 1.91	84	1.75	2.00	1.88	1.90
## 594	2.05 1.91	79	1.75	2.00	1.90	1.91
## 595	2.02 1.91	80	1.75	2.00	1.90	1.91
## 596	1.98 1.91	78	1.75	2.00	1.89	1.91
## 597	1.99 1.91	78	1.75	2.00	1.90	1.91
## 598	1.97 1.91	72	1.75	2.00	1.90	1.91
## 599	1.97 1.91	77	1.75	2.00	1.90	1.90
## 600	2.00 1.91	71	1.75	2.00	1.90	1.91
## 601	1.98 1.91	74	1.75	2.00	1.90	1.91
## 602	2.00 1.91	77	1.75	2.00	1.90	1.91
## 603	1.98 1.91	74	1.75	2.00	1.90	1.91

## 604	1.97 1.91	79	1.75	2.00	1.90	1.90
## 605	2.03 1.91	74	1.75	2.00	1.90	1.91
## 606	2.00 1.91	67	1.75	2.00	1.89	1.90
## 607	2.01 1.91	77	1.75	2.00	1.90	1.90
## 608	2.02 1.91	80	1.75	2.00	1.90	1.90
## 609	2.00 1.91	83	1.75	2.00	1.90	1.90
## 610	1.97 1.91	76	1.75	2.00	1.90	1.91
## 611	1.98 1.91	68	1.75	2.00	1.90	1.91
## 612	2.01 1.91	70	1.75	2.00	1.90	1.91
## 613	2.05 1.91	73	1.75	2.00	1.90	1.91
## 614	2.04 1.91	82	1.75	2.00	1.90	1.91
## 615	2.06 1.91	73	1.75	2.00	1.90	1.91
## 616	2.10 1.91	68	1.75	2.00	1.89	1.91
## 617	2.09 1.91	66	1.75	2.00	1.90	1.91
## 618	2.01 1.92	64	1.75	2.00	1.90	1.91
## 619	1.99 1.92	55	1.75	2.00	1.90	1.91
## 620	2.00 1.92	56	1.75	2.00	1.90	1.91
## 621	2.03 1.92	59	1.75	2.00	1.90	1.91
## 622	2.05 1.92	64	1.75	2.00	1.90	1.91
## 623	2.05 1.92	68	1.75	2.00	1.89	1.91
## 624	2.07 1.92	71	1.75	2.00	1.90	1.91
## 625	2.06 1.92	69	1.75	2.00	1.90	1.91
## 626	2.03 1.92	64	1.75	2.00	1.90	1.91
## 627	2.05 1.92	65	1.75	2.00	1.90	1.91
## 628	2.08 1.92	69	1.75	2.00	1.90	1.91
## 629	2.05 1.91	78	1.75	2.00	1.88	1.91
## 630	2.04 1.92	73	1.75	2.00	1.90	1.91
## 631	2.04 1.92	78	1.75	2.00	1.90	1.91
## 632	2.04 1.92	76	1.75	2.00	1.90	1.91
## 633	2.03 1.92	78	1.75	2.00	1.90	1.91
## 634	2.04 1.92	74	1.75	2.00	1.90	1.91
## 635	2.03 1.92	75	1.75	2.00	1.89	1.91
## 636	2.02 1.92	75	1.75	2.00	1.90	1.91
## 637	2.07 1.92	76	1.75	2.00	1.90	1.91
## 638	2.10 1.92	68	1.75	2.00	1.90	1.91
## 639	2.02 1.92	62	1.75	2.00	1.90	1.91
## 640	2.01 1.92	54	1.75	2.00	1.90	1.91
## 641	2.01 1.92	60	1.75	2.00	1.90	1.91
## 642	2.01 1.92	69	1.75	2.00	1.90	1.91
## 643	2.05 1.92	69	1.75	2.00	1.89	1.92
## 644	2.02 1.93	68	1.75	2.00	1.90	1.92
## 645	2.01 1.93	67	1.75	2.00	1.90	1.92
## 646	2.26 1.93	71	1.75	2.00	1.90	1.92
## 647	2.40 2.18	76	2.00	2.25	1.93	2.17
## 648	2.33 2.18	70	2.00	2.25	2.13	2.17
## 649	2.30 2.18	55	2.00	2.25	2.15	2.17
## 650	2.30 2.18	62	2.00	2.25	2.16	2.17
## 651	2.28 2.18	67	2.00	2.25	2.16	2.17
## 652	2.27 2.18	73	2.00	2.25	2.15	2.17
## 653	2.27 2.18	64	2.00	2.25	2.16	2.17
## 654	2.27 2.18	57	2.00	2.25	2.16	2.17
## 655	2.28 2.18	64	2.00	2.25	2.16	2.17
## 656	2.28 2.18	66	2.00	2.25	2.16	2.17
## 657	2.31 2.18	69	2.00	2.25	2.16	2.17

## 658	2.29 2.18	58	2.00	2.25	2.16	2.17
## 659	2.29 2.18	59	2.00	2.25	2.16	2.17
## 660	2.30 2.19	54	2.00	2.25	2.17	2.18
## 661	2.30 2.19	54	2.00	2.25	2.15	2.18
## 662	2.29 2.19	58	2.00	2.25	2.15	2.18
## 663	2.28 2.19	54	2.00	2.25	2.17	2.18
## 664	2.29 2.20	58	2.00	2.25	2.17	2.18
## 665	2.30 2.20	60	2.00	2.25	2.17	2.18
## 666	2.30 2.20	67	2.00	2.25	2.17	2.18
## 667	2.30 2.20	64	2.00	2.25	2.17	2.19
## 668	2.29 2.20	59	2.00	2.25	2.17	2.19
## 669	2.35 2.20	60	2.00	2.25	2.15	2.19
## 670	2.45 2.20	58	2.00	2.25	2.15	2.19
## 671	2.38 2.20	68	2.00	2.25	2.16	2.19
## 672	2.36 2.19	74	2.00	2.25	2.17	2.19
## 673	2.34 2.20	70	2.00	2.25	2.16	2.19
## 674	2.29 2.20	71	2.00	2.25	2.16	2.19
## 675	2.33 2.20	67	2.00	2.25	2.16	2.19
## 676	2.32 2.20	64	2.00	2.25	2.15	2.19
## 677	2.30 2.19	66	2.00	2.25	2.17	2.19
## 678	2.30 2.20	60	2.00	2.25	2.17	2.19
## 679	2.39 2.20	62	2.00	2.25	2.17	2.19
## 680	2.38 2.20	60	2.00	2.25	2.18	2.19
## 681	2.36 2.20	69	2.00	2.25	2.17	2.19
## 682	2.31 2.20	67	2.00	2.25	2.17	2.19
## 683	2.31 2.20	61	2.00	2.25	2.17	2.19
## 684	2.36 2.20	59	2.00	2.25	2.17	2.19
## 685	2.32 2.20	65	2.00	2.25	2.16	2.19
## 686	2.31 2.20	62	2.00	2.25	2.16	2.19
## 687	2.32 2.20	57	2.00	2.25	2.16	2.19
## 688	2.36 2.20	65	2.00	2.25	2.16	2.19
## 689	2.42 2.20	69	2.00	2.25	2.17	2.19
## 690	2.40 2.20	75	2.00	2.25	2.17	2.19
## 691	2.85 2.19	83	2.00	2.25	2.17	2.19
## 692	2.35 2.20	78	2.00	2.25	2.17	2.19
## 693	2.35 2.31	411	0.00	0.00	2.10	2.31
## 694	2.35 2.28	415	0.00	0.00	2.10	2.28
## 695	2.35 2.20	412	0.00	0.00	2.10	2.20
## 696	2.35 2.17	419	0.00	0.00	2.11	2.16
## 697	2.35 2.17	408	0.00	0.00	2.12	2.17
## 698	2.35 2.18	409	0.00	0.00	2.13	2.18
## 699	2.35 2.19	406	0.00	0.00	2.13	2.19
## 700	2.35 2.28	407	0.00	0.00	2.19	2.28
## 701	2.35 2.30	405	0.00	0.00	2.05	2.30
## 702	2.35 2.29	404	0.00	0.00	2.10	2.29
## 703	2.60 2.40	401	0.00	0.00	2.30	2.39
## 704	2.60 2.39	388	0.00	0.00	2.31	2.39
## 705	2.60 2.41	378	0.00	0.00	2.35	2.40
## 706	2.60 2.43	387	0.00	0.00	2.25	2.42
## 707	2.60 2.43	383	0.00	0.00	2.30	2.42
## 708	2.60 2.45	381	0.00	0.00	2.25	2.44
## 709	2.60 2.95	386	0.00	0.00	2.30	2.91
## 710	2.60 3.10	419	0.00	0.00	2.30	3.05
## 711	2.60 2.70	429	0.00	0.00	2.30	2.68

## 712	2.60 2.43	433	0.00	0.00	2.30	2.42
## 713	2.60 2.38	425	0.00	0.00	2.32	2.38
## 714	2.60 2.40	434	0.00	0.00	2.34	2.40
## 715	2.60 2.44	435	0.00	0.00	2.30	2.44
## 716	2.60 2.41	428	0.00	0.00	2.34	2.41
## 717	2.60 2.38	437	0.00	0.00	2.33	2.38
## 718	2.60 2.38	433	0.00	0.00	2.31	2.38
## 719	2.60 2.41	442	0.00	0.00	2.35	2.41
## 720	2.60 2.37	435	0.00	0.00	2.32	2.37
## 721	2.60 2.37	426	0.00	0.00	2.32	2.37
## 722	2.60 2.37	426	0.00	0.00	2.32	2.37
## 723	2.60 2.37	431	0.00	0.00	2.32	2.37
## 724	2.60 2.38	433	0.00	0.00	2.32	2.37
## 725	2.60 2.40	433	0.00	0.00	2.32	2.40
## 726	2.60 2.38	436	0.00	0.00	2.33	2.38
## 727	2.60 2.37	437	0.00	0.00	2.30	2.37
## 728	2.60 2.37	438	0.00	0.00	2.30	2.37
## 729	2.60 2.36	431	0.00	0.00	2.32	2.36
## 730	2.60 2.55	453	0.00	0.00	2.30	2.55
## 731	2.60 2.44	464	0.00	0.00	2.30	2.44
## 732	2.60 2.38	447	0.00	0.00	2.28	2.38
## 733	2.60 2.37	438	0.00	0.00	2.32	2.36
## 734	2.52 2.35	445	0.00	0.00	2.30	2.35
## 735	2.60 2.36	440	0.00	0.00	2.30	2.36
## 736	2.60 2.35	440	0.00	0.00	2.30	2.35
## 737	2.60 2.40	442	0.00	0.00	2.32	2.39
## 738	2.60 2.36	441	0.00	0.00	2.30	2.36
## 739	2.60 2.36	438	0.00	0.00	2.31	2.36
## 740	2.55 2.36	432	0.00	0.00	2.31	2.36
## 741	2.60 2.41	440	0.00	0.00	2.35	2.41
## 742	2.60 2.37	442	0.00	0.00	2.32	2.37
## 743	2.60 2.37	440	0.00	0.00	2.31	2.37
## 744	2.60 2.37	441	0.00	0.00	2.31	2.37
## 745	2.55 2.37	442	0.00	0.00	2.32	2.37
## 746	2.55 2.37	438	0.00	0.00	2.32	2.37
## 747	2.60 2.37	434	0.00	0.00	2.30	2.37
## 748	2.54 2.37	434	0.00	0.00	2.31	2.36
## 749	2.60 2.55	445	0.00	0.00	2.30	2.55
## 750	2.55 2.36	449	0.00	0.00	2.31	2.36
## 751	2.55 2.36	449	0.00	0.00	2.31	2.36
## 752	2.55 2.36	450	0.00	0.00	2.30	2.36
## 753	2.54 2.36	453	0.00	0.00	2.30	2.35
## 754	2.55 2.37	456	0.00	0.00	2.32	2.37
## 755	2.52 2.36	454	0.00	0.00	2.30	2.36
## 756	2.52 2.36	446	0.00	0.00	2.32	2.36
## 757	2.52 2.37	448	0.00	0.00	2.32	2.37
## 758	2.52 2.38	441	0.00	0.00	2.30	2.38
## 759	2.54 2.39	427	0.00	0.00	2.34	2.38
## 760	2.54 2.43	434	0.00	0.00	2.38	2.43
## 761	2.55 2.38	431	0.00	0.00	2.33	2.38
## 762	2.55 2.40	427	0.00	0.00	2.35	2.40
## 763	2.55 2.46	422	0.00	0.00	2.33	2.45
## 764	2.55 2.42	419	0.00	0.00	2.35	2.42
## 765	2.55 2.38	404	0.00	0.00	2.33	2.38

## 766	2.55 2.37	399	0.00	0.00	2.31	2.37
## 767	2.55 2.37	393	0.00	0.00	2.32	2.37
## 768	2.53 2.38	388	0.00	0.00	2.32	2.38
## 769	2.55 2.42	391	0.00	0.00	2.28	2.42
## 770	2.60 2.58	373	0.00	0.00	2.35	2.55
## 771	2.55 2.41	401	0.00	0.00	2.36	2.41
## 772	2.55 2.43	411	0.00	0.00	2.38	2.43
## 773	2.55 2.43	415	0.00	0.00	2.37	2.43
## 774	2.53 2.43	425	0.00	0.00	2.38	2.43
## 775	2.52 2.43	427	0.00	0.00	2.35	2.43
## 776	2.52 2.43	431	0.00	0.00	2.35	2.43
## 777	2.52 2.42	442	0.00	0.00	2.30	2.42
## 778	2.52 2.42	438	0.00	0.00	2.35	2.42
## 779	2.55 2.40	438	0.00	0.00	2.35	2.40
## 780	2.55 2.40	426	0.00	0.00	2.36	2.40
## 781	2.55 2.43	433	0.00	0.00	2.39	2.43
## 782	2.55 2.43	438	0.00	0.00	2.35	2.43
## 783	2.55 2.47	434	0.00	0.00	2.40	2.47
## 784	2.55 2.46	427	0.00	0.00	2.43	2.46
## 785	2.59 2.46	978	0.00	0.00	2.40	2.43
## 786	2.54 2.46	969	0.00	0.00	2.39	2.45
## 787	2.50 2.44	1018	0.00	0.00	2.39	2.41
## 788	2.54 2.45	962	0.00	0.00	2.39	2.41
## 789	2.54 2.46	982	0.00	0.00	2.41	2.45
## 790	2.56 2.48	968	0.00	0.00	2.40	2.46
## 791	2.85 2.76	1084	0.00	0.00	2.42	2.75
## 792	2.62 2.54	1074	0.00	0.00	2.46	2.50
## 793	2.57 2.50	1053	0.00	0.00	2.40	2.46
## 794	2.49 2.43	1076	0.00	0.00	2.38	2.41
## 795	2.48 2.42	1021	0.00	0.00	2.37	2.40
## 796	2.50 2.44	1069	0.00	0.00	2.38	2.41
## 797	2.48 2.43	1034	0.00	0.00	2.35	2.40
## 798	2.46 2.41	1011	0.00	0.00	2.35	2.38
## 799	2.46 2.40	1034	0.00	0.00	2.35	2.37
## 800	2.44 2.38	1007	0.00	0.00	2.33	2.35
## 801	2.48 2.39	1012	0.00	0.00	2.34	2.36
## 802	2.56 2.48	1052	0.00	0.00	2.40	2.45
## 803	2.50 2.43	1030	0.00	0.00	2.38	2.40
## 804	2.48 2.42	1036	0.00	0.00	2.34	2.39
## 805	2.45 2.39	1038	0.00	0.00	2.33	2.36
## 806	2.45 2.38	1017	0.00	0.00	2.33	2.36
## 807	2.43 2.37	1037	0.00	0.00	2.30	2.34
## 808	2.45 2.37	1039	0.00	0.00	2.32	2.34
## 809	2.44 2.37	1038	0.00	0.00	2.32	2.34
## 810	2.48 2.41	1085	0.00	0.00	2.35	2.38
## 811	2.48 2.40	1099	0.00	0.00	2.28	2.39
## 812	2.48 2.40	1083	0.00	0.00	2.28	2.39
## 813	0.00 2.49	1136	0.00	0.00	0.00	0.00
## 814	2.47 2.40	1162	0.00	0.00	2.35	2.37
## 815	2.46 2.39	1110	0.00	0.00	2.34	2.36
## 816	2.47 2.40	1082	0.00	0.00	2.34	2.36
## 817	2.48 2.40	1031	0.00	0.00	2.34	2.37
## 818	2.47 2.39	1104	0.00	0.00	2.30	2.37
## 819	2.46 2.39	1112	0.00	0.00	2.35	2.37

## 820	2.45 2.38	1048	0.00	0.00	2.30	2.36
## 821	2.44 2.37	1099	0.00	0.00	2.31	2.36
## 822	2.42 2.35	1039	0.00	0.00	2.32	2.34
## 823	2.43 2.35	1047	0.00	0.00	2.30	2.32
## 824	2.53 2.41	1098	0.00	0.00	2.36	2.38
## 825	2.45 2.39	1059	0.00	0.00	2.33	2.36
## 826	2.42 2.36	1059	0.00	0.00	2.31	2.34
## 827	2.47 2.36	1067	0.00	0.00	2.31	2.33
## 828	2.44 2.37	1103	0.00	0.00	2.33	2.35
## 829	2.48 2.39	1092	0.00	0.00	2.35	2.38
## 830	2.49 2.41	1101	0.00	0.00	2.35	2.40
## 831	2.52 2.43	1099	0.00	0.00	2.30	2.43
## 832	2.50 2.42	1117	0.00	0.00	2.32	2.40
## 833	2.70 2.50	1113	0.00	0.00	2.33	2.50
## 834	4.00 2.42	1181	0.00	0.00	2.36	2.38
## 835	2.70 2.51	1224	0.00	0.00	2.45	2.49
## 836	2.71 2.56	1213	0.00	0.00	2.48	2.55
## 837	2.69 2.59	1193	0.00	0.00	2.44	2.58
## 838	2.56 2.48	1211	0.00	0.00	2.42	2.46
## 839	2.55 2.45	1178	0.00	0.00	2.42	2.45
## 840	2.53 2.46	1139	0.00	0.00	2.30	2.45
## 841	2.48 2.41	1147	0.00	0.00	2.34	2.40
## 842	2.51 2.36	1138	0.00	0.00	2.33	2.34
## 843	2.59 2.46	1199	0.00	0.00	2.42	2.44
## 844	2.60 2.47	1102	0.00	0.00	2.42	2.44
## 845	2.56 2.47	1104	0.00	0.00	2.40	2.45
## 846	2.55 2.46	1114	0.00	0.00	2.30	2.44
## 847	2.48 2.41	1140	0.00	0.00	2.35	2.40
## 848	2.48 2.40	1123	0.00	0.00	2.36	2.38
## 849	2.47 2.40	1091	0.00	0.00	2.36	2.39
## 850	2.49 2.41	1139	0.00	0.00	2.35	2.40
## 851	2.51 2.42	1153	0.00	0.00	2.38	2.41
## 852	2.48 2.41	1142	0.00	0.00	2.35	2.40
## 853	2.48 2.40	1153	0.00	0.00	2.30	2.39
## 854	2.47 2.39	1158	0.00	0.00	2.35	2.38
## 855	2.65 2.55	1217	0.00	0.00	2.35	2.53
## 856	2.27 2.19	1183	0.00	0.00	2.11	2.19
## 857	2.26 2.19	1185	0.00	0.00	2.10	2.18
## 858	2.20 2.13	1253	0.00	0.00	2.10	2.12
## 859	2.20 2.11	1234	0.00	0.00	2.08	2.10
## 860	2.17 2.10	1196	0.00	0.00	2.06	2.09
## 861	2.22 2.09	1218	0.00	0.00	2.06	2.07
## 862	2.21 2.11	1186	0.00	0.00	2.08	2.10
## 863	2.21 2.12	1177	0.00	0.00	2.05	2.11
## 864	2.25 2.16	1183	0.00	0.00	2.03	2.16
## 865	2.22 2.13	1244	0.00	0.00	2.08	2.12
## 866	2.27 2.18	1218	0.00	0.00	2.10	2.18
## 867	2.20 2.13	1247	0.00	0.00	2.08	2.12
## 868	2.18 2.11	1241	0.00	0.00	2.07	2.10
## 869	2.22 2.13	1228	0.00	0.00	2.08	2.12
## 870	2.18 2.10	1188	0.00	0.00	2.05	2.08
## 871	2.17 2.09	1160	0.00	0.00	2.05	2.07
## 872	2.17 2.10	1130	0.00	0.00	2.06	2.07
## 873	2.20 2.10	1190	0.00	0.00	2.07	2.09

## 874	2.23 2.15	1197	0.00	0.00	2.11	2.14
## 875	2.20 2.12	1196	0.00	0.00	2.05	2.11
## 876	2.20 2.12	1196	0.00	0.00	2.06	2.11
## 877	2.26 2.16	1194	0.00	0.00	2.09	2.15
## 878	2.30 2.17	1281	0.00	0.00	2.14	2.15
## 879	2.32 2.21	1222	0.00	0.00	2.15	2.20
## 880	2.30 2.21	1197	0.00	0.00	2.15	2.20
## 881	2.24 2.15	1222	0.00	0.00	2.10	2.15
## 882	2.20 2.12	1243	0.00	0.00	2.09	2.11
## 883	2.24 2.14	1186	0.00	0.00	2.11	2.13
## 884	2.25 2.15	1179	0.00	0.00	2.12	2.14
## 885	2.29 2.20	1156	0.00	0.00	2.15	2.18
## 886	2.30 2.20	1134	0.00	0.00	2.16	2.19
## 887	3.50 2.43	1156	0.00	0.00	2.38	2.42
## 888	8.00 5.25	1177	0.00	0.00	2.25	5.00
## 889	4.50 2.55	1196	0.00	0.00	2.10	2.50
## 890	2.05 1.95	1137	0.00	0.00	1.82	1.92
## 891	1.99 1.86	1121	0.00	0.00	1.80	1.85
## 892	2.10 1.85	1140	0.00	0.00	1.80	1.82
## 893	2.05 1.96	1085	0.00	0.00	1.89	1.94
## 894	2.10 2.01	1080	0.00	0.00	1.80	2.00
## 895	1.91 1.85	1092	0.00	0.00	1.78	1.82
## 896	1.90 1.82	1084	0.00	0.00	1.75	1.80
## 897	2.50 2.35	1097	0.00	0.00	2.00	2.35
## 898	2.00 1.88	1183	0.00	0.00	1.82	1.84
## 899	1.92 1.85	1147	0.00	0.00	1.80	1.82
## 900	1.89 1.84	1120	0.00	0.00	1.79	1.81
## 901	1.90 1.82	1094	0.00	0.00	1.77	1.79
## 902	1.90 1.83	1070	0.00	0.00	1.78	1.80
## 903	1.91 1.85	1070	0.00	0.00	1.80	1.82
## 904	1.91 1.85	1061	0.00	0.00	1.80	1.82
## 905	1.91 1.85	1124	0.00	0.00	1.78	1.82
## 906	1.90 1.85	1024	0.00	0.00	1.78	1.82
## 907	2.35 2.00	1088	0.00	0.00	1.90	1.96
## 908	2.12 2.05	1086	0.00	0.00	1.90	2.02
## 909	2.00 1.95	1077	0.00	0.00	1.87	1.93
## 910	1.93 1.88	1120	0.00	0.00	1.82	1.85
## 911	1.92 1.86	1054	0.00	0.00	1.80	1.83
## 912	1.95 1.87	1079	0.00	0.00	1.80	1.85
## 913	1.92 1.87	1065	0.00	0.00	1.80	1.84
## 914	1.93 1.86	1086	0.00	0.00	1.81	1.85
## 915	1.90 1.84	1077	0.00	0.00	1.78	1.81
## 916	1.88 1.82	1089	0.00	0.00	1.77	1.80
## 917	1.89 1.81	1048	0.00	0.00	1.76	1.78
## 918	1.89 1.82	1099	0.00	0.00	1.77	1.80
## 919	1.86 1.76	1174	0.00	0.00	1.68	1.73
## 920	1.65 1.58	1118	0.00	0.00	1.52	1.55
## 921	1.63 1.56	1146	0.00	0.00	1.50	1.54
## 922	1.64 1.58	1062	0.00	0.00	1.51	1.55
## 923	1.62 1.57	1083	0.00	0.00	1.50	1.53
## 924	1.61 1.56	1066	0.00	0.00	1.51	1.53
## 925	1.61 1.56	1016	0.00	0.00	1.50	1.53
## 926	1.66 1.57	1064	0.00	0.00	1.52	1.54
## 927	1.63 1.57	1018	0.00	0.00	1.50	1.54



## 928	1.64 1.58	1027	0.00	0.00	1.50	1.55
## 929	1.63 1.59	1049	0.00	0.00	1.51	1.55
## 930	1.62 1.56	1012	0.00	0.00	1.50	1.52
## 931	1.66 1.57	1008	0.00	0.00	1.51	1.53
## 932	1.63 1.57	1001	0.00	0.00	1.51	1.54
## 933	1.63 1.58	993	0.00	0.00	1.50	1.55
## 934	1.64 1.58	1028	0.00	0.00	1.51	1.56
## 935	1.62 1.56	994	0.00	0.00	1.50	1.54
## 936	1.60 1.54	1056	0.00	0.00	1.49	1.51
## 937	1.62 1.55	1011	0.00	0.00	1.48	1.50
## 938	1.73 1.65	1004	0.00	0.00	1.50	1.63
## 939	1.68 1.63	1104	0.00	0.00	1.54	1.60
## 940	1.61 1.55	1050	0.00	0.00	1.49	1.51
## 941	1.62 1.54	1046	0.00	0.00	1.49	1.50
## 942	1.61 1.55	1017	0.00	0.00	1.50	1.52
## 943	1.61 1.55	1017	0.00	0.00	1.50	1.52
## 944	1.61 1.56	1042	0.00	0.00	1.50	1.53
## 945	1.59 1.55	1049	0.00	0.00	1.50	1.51
## 946	1.59 1.54	1056	0.00	0.00	1.49	1.50
## 947	1.58 1.53	1039	0.00	0.00	1.48	1.50
## 948	1.65 1.54	1017	0.00	0.00	1.48	1.50
## 949	1.67 1.62	1025	0.00	0.00	1.54	1.60
## 950	1.61 1.54	1014	0.00	0.00	1.48	1.50
## 951	1.60 1.53	1057	0.00	0.00	1.48	1.50
## 952	1.58 1.53	988	0.00	0.00	1.47	1.50
## 953	1.57 1.53	967	0.00	0.00	1.47	1.49
## 954	1.58 1.52	1027	0.00	0.00	1.48	1.50
## 955	1.57 1.52	1006	0.00	0.00	1.45	1.50
## 956	1.58 1.52	1000	0.00	0.00	1.47	1.50
## 957	1.60 1.53	1038	0.00	0.00	1.47	1.50
## 958	1.60 1.54	1036	0.00	0.00	1.47	1.52
## 959	1.70 1.55	1010	0.00	0.00	1.45	1.55
## 960	1.63 1.54	1123	0.00	0.00	1.49	1.50
## 961	1.60 1.55	1030	0.00	0.00	1.50	1.52
## 962	1.60 1.55	1034	0.00	0.00	1.50	1.53
## 963	1.60 1.56	1028	0.00	0.00	1.50	1.53
## 964	1.60 1.55	1007	0.00	0.00	1.50	1.52
## 965	1.60 1.55	1011	0.00	0.00	1.50	1.52
## 966	1.58 1.55	1013	0.00	0.00	1.50	1.52
## 967	1.58 1.54	1021	0.00	0.00	1.50	1.52
## 968	1.59 1.55	1009	0.00	0.00	1.50	1.52
## 969	1.59 1.56	1022	0.00	0.00	1.50	1.53
## 970	1.58 1.55	1069	0.00	0.00	1.50	1.52
## 971	1.58 1.54	1043	0.00	0.00	1.50	1.52
## 972	1.57 1.54	1067	0.00	0.00	1.49	1.52
## 973	1.57 1.54	1085	0.00	0.00	1.49	1.51
## 974	1.57 1.54	1051	0.00	0.00	1.48	1.51
## 975	1.57 1.53	1070	0.00	0.00	1.49	1.51
## 976	1.57 1.53	1051	0.00	0.00	1.49	1.51
## 977	1.57 1.53	1074	0.00	0.00	1.49	1.51
## 978	1.58 1.53	1082	0.00	0.00	1.49	1.51
## 979	1.63 1.58	1072	0.00	0.00	1.53	1.55
## 980	1.66 1.60	1149	0.00	0.00	1.55	1.57
## 981	1.65 1.59	1134	0.00	0.00	1.55	1.57

## 982	1.65 1.60	1161	0.00	0.00	1.55	1.58
## 983	1.64 1.59	1168	0.00	0.00	1.54	1.57
## 984	1.64 1.59	1105	0.00	0.00	1.55	1.57
## 985	1.63 1.58	1111	0.00	0.00	1.53	1.56
## 986	1.61 1.58	1111	0.00	0.00	1.54	1.56
## 987	1.63 1.58	1114	0.00	0.00	1.54	1.56
## 988	1.62 1.57	1124	0.00	0.00	1.53	1.55
## 989	1.63 1.57	1114	0.00	0.00	1.54	1.56
## 990	1.63 1.58	1086	0.00	0.00	1.55	1.56
## 991	1.65 1.60	1163	0.00	0.00	1.55	1.58
## 992	1.64 1.59	1128	0.00	0.00	1.53	1.57
## 993	1.64 1.60	1112	0.00	0.00	1.54	1.59
## 994	1.61 1.58	1099	0.00	0.00	1.54	1.56
## 995	1.62 1.58	1106	0.00	0.00	1.54	1.56
## 996	1.64 1.59	1122	0.00	0.00	1.55	1.57
## 997	1.64 1.58	1120	0.00	0.00	1.55	1.57
## 998	1.63 1.58	1106	0.00	0.00	1.54	1.57
## 999	1.65 1.60	1156	0.00	0.00	1.54	1.59
## 1000	1.75 1.59	1291	0.00	0.00	1.55	1.57
## 1001	1.75 1.64	1238	0.00	0.00	1.58	1.63
## 1002	1.29 1.23	1261	0.00	0.00	1.12	1.22
## 1003	1.18 1.12	1254	0.00	0.00	1.08	1.11
## 1004	1.15 1.10	1295	0.00	0.00	1.06	1.08
## 1005	1.20 1.09	1256	0.00	0.00	1.05	1.08
## 1006	1.20 1.11	1264	0.00	0.00	1.08	1.10
## 1007	1.22 1.15	1222	0.00	0.00	1.10	1.14
## 1008	1.28 1.20	1293	0.00	0.00	1.07	1.20
## 1009	1.20 1.10	1298	0.00	0.00	1.06	1.08
## 1010	1.50 0.26	1306	0.00	0.00	0.20	0.23
## 1011	0.86 0.54	1335	0.00	0.00	0.09	0.50
## 1012	0.20 0.10	1358	0.00	0.00	0.06	0.08
## 1013	0.11 0.06	1319	0.00	0.00	0.03	0.05
## 1014	0.10 0.04	1235	0.00	0.00	0.01	0.03
## 1015	0.07 0.02	1277	0.00	0.00	0.00	0.01
## 1016	0.06 0.01	1280	0.00	0.00	0.00	0.01
## 1017	0.11 0.01	1229	0.00	0.00	0.00	0.01
## 1018	0.10 0.01	1233	0.00	0.00	0.00	0.01
## 1019	0.08 0.01	1222	0.00	0.00	-0.01	0.01
## 1020	0.07 0.01	1157	0.00	0.00	-0.02	0.01
## 1021	0.03 0.01	1127	0.00	0.00	-0.03	0.01
## 1022	0.08 0.01	1226	0.00	0.00	-0.01	0.01
## 1023	0.10 0.01	1202	0.00	0.00	0.01	0.01
## 1024	0.07 0.01	1266	0.00	0.00	0.00	0.01
## 1025	0.08 0.01	1254	0.00	0.00	0.00	0.01
## 1026	0.08 0.01	1226	0.00	0.00	0.00	0.01
## 1027	0.10 0.01	1152	0.00	0.00	0.01	0.01
## 1028	0.11 0.01	1160	0.00	0.00	0.01	0.01
## 1029	0.17 0.05	106	0.00	0.00	0.03	0.05
## 1030	0.17 0.05	265	0.00	0.00	0.03	0.04
## 1031	0.17 0.05	231	0.00	0.00	0.03	0.04
## 1032	0.17 0.05	245	0.00	0.00	0.03	0.04
## 1033	0.15 0.05	244	0.00	0.00	0.02	0.04
## 1034	0.17 0.05	256	0.00	0.00	0.02	0.04
## 1035	0.17 0.05	284	0.00	0.00	0.03	0.04

## 1036	0.17 0.04	272	0.00	0.00	0.02	0.04
## 1037	0.17 0.04	255	0.00	0.00	0.02	0.04
## 1038	0.17 0.04	253	0.00	0.00	0.03	0.04
## 1039	0.17 0.04	245	0.00	0.00	0.03	0.04
## 1040	0.17 0.04	267	0.00	0.00	0.02	0.04
## 1041	0.17 0.04	229	0.00	0.00	0.03	0.04
## 1042	0.17 0.04	246	0.00	0.00	0.02	0.04
## 1043	0.16 0.04	211	0.00	0.00	0.02	0.04
## 1044	0.15 0.04	217	0.00	0.00	0.03	0.04
## 1045	0.15 0.05	221	0.00	0.00	0.03	0.04
## 1046	0.15 0.05	206	0.00	0.00	0.03	0.04
## 1047	0.15 0.05	216	0.00	0.00	0.03	0.04
## 1048	0.15 0.05	205	0.00	0.00	0.03	0.05
## 1049	0.15 0.05	200	0.00	0.00	0.03	0.05
## 1050	0.15 0.05	217	0.00	0.00	0.03	0.05
## 1051	0.15 0.05	210	0.00	0.00	0.03	0.05
## 1052	0.15 0.05	227	0.00	0.00	0.03	0.05
## 1053	0.15 0.05	227	0.00	0.00	0.03	0.05
## 1054	0.15 0.05	225	0.00	0.00	0.03	0.05
## 1055	0.15 0.05	229	0.00	0.00	0.03	0.05
## 1056	0.15 0.05	214	0.00	0.00	0.03	0.05
## 1057	0.15 0.05	226	0.00	0.00	0.03	0.05
## 1058	0.15 0.05	215	0.00	0.00	0.03	0.05
## 1059	0.15 0.05	196	0.00	0.00	0.03	0.05
## 1060	0.15 0.05	200	0.00	0.00	0.03	0.05
## 1061	0.14 0.05	205	0.00	0.00	0.03	0.05
## 1062	0.14 0.05	182	0.00	0.00	0.03	0.05
## 1063	0.14 0.05	175	0.00	0.00	0.03	0.05
## 1064	0.14 0.05	175	0.00	0.00	0.03	0.05
## 1065	0.14 0.06	172	0.00	0.00	0.03	0.05
## 1066	0.14 0.06	173	0.00	0.00	0.03	0.06
## 1067	0.14 0.06	172	0.00	0.00	0.03	0.06
## 1068	0.13 0.06	153	0.00	0.00	0.03	0.06
## 1069	0.13 0.07	156	0.00	0.00	0.03	0.06
## 1070	0.10 0.07	173	0.00	0.00	0.04	0.07
## 1071	0.10 0.07	167	0.00	0.00	0.03	0.07
## 1072	0.11 0.07	165	0.00	0.00	0.03	0.07
## 1073	0.11 0.07	145	0.00	0.00	0.03	0.07
## 1074	0.11 0.08	155	0.00	0.00	0.03	0.08
## 1075	0.12 0.08	158	0.00	0.00	0.04	0.08
## 1076	0.12 0.08	162	0.00	0.00	0.04	0.08
## 1077	0.11 0.08	163	0.00	0.00	0.03	0.08
## 1078	0.11 0.08	170	0.00	0.00	0.03	0.08
## 1079	0.11 0.08	189	0.00	0.00	0.03	0.08
## 1080	0.11 0.08	188	0.00	0.00	0.03	0.08
## 1081	0.11 0.08	178	0.00	0.00	0.03	0.08
## 1082	0.11 0.08	182	0.00	0.00	0.03	0.08
## 1083	0.11 0.08	171	0.00	0.00	0.03	0.08
## 1084	0.10 0.08	162	0.00	0.00	0.03	0.08
## 1085	0.11 0.08	139	0.00	0.00	0.01	0.08
## 1086	0.11 0.08	152	0.00	0.00	0.03	0.08
## 1087	0.10 0.09	84	0.00	0.00	0.03	0.08
## 1088	0.15 0.08	397	0.00	0.00	0.06	0.08
## 1089	0.15 0.08	402	0.00	0.00	0.06	0.08

## 1090	0.13 0.08	404	0.00	0.00	0.06	0.07
## 1091	0.14 0.08	413	0.00	0.00	0.06	0.08
## 1092	0.14 0.08	400	0.00	0.00	0.05	0.08
## 1093	0.15 0.08	389	0.00	0.00	0.06	0.08
## 1094	0.15 0.09	397	0.00	0.00	0.05	0.08
## 1095	0.17 0.11	391	0.00	0.00	0.06	0.11
## 1096	0.14 0.08	398	0.00	0.00	0.06	0.08
## 1097	0.15 0.09	406	0.00	0.00	0.06	0.08
## 1098	0.14 0.09	398	0.00	0.00	0.05	0.08
## 1099	0.14 0.08	416	0.00	0.00	0.05	0.08
## 1100	0.13 0.08	394	0.00	0.00	0.04	0.08
## 1101	0.13 0.08	392	0.00	0.00	0.06	0.08
## 1102	0.13 0.07	403	0.00	0.00	0.06	0.07
## 1103	0.14 0.08	407	0.00	0.00	0.04	0.08
## 1104	0.14 0.08	406	0.00	0.00	0.05	0.08
## 1105	0.14 0.07	402	0.00	0.00	0.05	0.07
## 1106	0.12 0.07	395	0.00	0.00	0.05	0.07
## 1107	0.14 0.08	412	0.00	0.00	0.06	0.07
## 1108	0.13 0.07	397	0.00	0.00	0.05	0.07
## 1109	0.13 0.07	402	0.00	0.00	0.05	0.07
## 1110	0.13 0.07	395	0.00	0.00	0.06	0.07
## 1111	0.12 0.07	401	0.00	0.00	0.06	0.07
## 1112	0.12 0.07	374	0.00	0.00	0.06	0.07
## 1113	0.12 0.07	381	0.00	0.00	0.06	0.07
## 1114	0.12 0.07	395	0.00	0.00	0.05	0.07
## 1115	0.12 0.07	382	0.00	0.00	0.05	0.07
## 1116	0.12 0.07	384	0.00	0.00	0.05	0.07
## 1117	0.12 0.07	377	0.00	0.00	0.05	0.07
## 1118	0.13 0.07	380	0.00	0.00	0.06	0.07
## 1119	0.12 0.07	381	0.00	0.00	0.05	0.07
## 1120	0.11 0.07	375	0.00	0.00	0.01	0.07
## 1121	0.09 0.05	385	0.00	0.00	0.03	0.05
## 1122	0.10 0.05	388	0.00	0.00	0.02	0.05
## 1123	0.11 0.06	379	0.00	0.00	0.04	0.05
## 1124	0.11 0.06	368	0.00	0.00	0.04	0.06
## 1125	0.10 0.05	374	0.00	0.00	0.04	0.05
## 1126	0.10 0.05	373	0.00	0.00	0.04	0.05
## 1127	0.11 0.05	369	0.00	0.00	0.04	0.05
## 1128	0.13 0.07	380	0.00	0.00	0.05	0.07
## 1129	0.12 0.06	370	0.00	0.00	0.04	0.06
## 1130	0.12 0.06	376	0.00	0.00	0.05	0.06
## 1131	0.11 0.06	374	0.00	0.00	0.05	0.06
## 1132	0.10 0.07	370	0.00	0.00	0.05	0.07
## 1133	0.10 0.07	375	0.00	0.00	0.05	0.07
## 1134	0.10 0.07	379	0.00	0.00	0.05	0.07
## 1135	0.10 0.07	378	0.00	0.00	0.05	0.07
## 1136	0.09 0.07	376	0.00	0.00	0.05	0.07
## 1137	0.09 0.07	363	0.00	0.00	0.05	0.07
## 1138	0.10 0.07	365	0.00	0.00	0.06	0.07
## 1139	0.09 0.07	354	0.00	0.00	0.05	0.07
## 1140	0.09 0.07	364	0.00	0.00	0.05	0.07
## 1141	0.09 0.07	359	0.00	0.00	0.05	0.07
## 1142	0.09 0.06	369	0.00	0.00	0.02	0.06
## 1143	0.09 0.05	366	0.00	0.00	0.03	0.05

## 1144	0.08 0.04	367	0.00	0.00	0.03	0.04
## 1145	0.08 0.04	355	0.00	0.00	0.02	0.04
## 1146	0.08 0.06	355	0.00	0.00	0.04	0.06
## 1147	0.08 0.06	378	0.00	0.00	0.04	0.06
## 1148	0.08 0.05	351	0.00	0.00	0.04	0.05
## 1149	0.09 0.06	353	0.00	0.00	0.04	0.06
## 1150	0.12 0.05	374	0.00	0.00	0.04	0.05
## 1151	0.10 0.06	362	0.00	0.00	0.05	0.06
## 1152	0.09 0.07	361	0.00	0.00	0.05	0.07
## 1153	0.09 0.07	350	0.00	0.00	0.05	0.07
## 1154	0.09 0.07	358	0.00	0.00	0.05	0.07
## 1155	0.09 0.06	347	0.00	0.00	0.04	0.05
## 1156	0.80 0.06	356	0.00	0.00	0.04	0.06
## 1157	0.09 0.06	352	0.00	0.00	0.04	0.06
## 1158	0.09 0.06	344	0.00	0.00	0.04	0.06
## 1159	0.10 0.07	359	0.00	0.00	0.05	0.07
## 1160	0.09 0.06	348	0.00	0.00	0.05	0.06
## 1161	0.09 0.06	344	0.00	0.00	0.03	0.06
## 1162	0.09 0.06	347	0.00	0.00	0.04	0.06
## 1163	0.08 0.05	347	0.00	0.00	0.04	0.05
## 1164	0.08 0.05	342	0.00	0.00	0.03	0.05
## 1165	0.09 0.06	334	0.00	0.00	0.04	0.06
## 1166	0.09 0.06	338	0.00	0.00	0.04	0.06
## 1167	0.09 0.06	331	0.00	0.00	0.05	0.06
## 1168	0.09 0.06	333	0.00	0.00	0.04	0.06
## 1169	0.09 0.06	329	0.00	0.00	0.04	0.06
## 1170	0.12 0.07	332	0.00	0.00	0.05	0.07
## 1171	0.13 0.07	352	0.00	0.00	0.05	0.07
## 1172	0.12 0.07	350	0.00	0.00	0.05	0.07
## 1173	0.13 0.08	342	0.00	0.00	0.05	0.07
## 1174	0.13 0.08	348	0.00	0.00	0.05	0.08
## 1175	0.13 0.08	343	0.00	0.00	0.06	0.08
## 1176	0.12 0.08	344	0.00	0.00	0.04	0.08
## 1177	0.12 0.07	349	0.00	0.00	0.06	0.07
## 1178	0.12 0.07	350	0.00	0.00	0.05	0.07
## 1179	0.11 0.07	344	0.00	0.00	0.05	0.07
## 1180	0.13 0.08	351	0.00	0.00	0.04	0.08
## 1181	0.11 0.07	348	0.00	0.00	0.04	0.07
## 1182	0.11 0.05	340	0.00	0.00	0.03	0.05
## 1183	0.09 0.04	344	0.00	0.00	0.02	0.04
## 1184	0.07 0.04	345	0.00	0.00	0.02	0.03
## 1185	0.07 0.04	343	0.00	0.00	0.01	0.03
## 1186	0.09 0.05	354	0.00	0.00	0.04	0.05
## 1187	0.10 0.06	347	0.00	0.00	0.04	0.06
## 1188	0.10 0.06	353	0.00	0.00	0.03	0.06
## 1189	0.10 0.08	362	0.00	0.00	0.05	0.07
## 1190	0.15 0.06	362	0.00	0.00	0.05	0.06
## 1191	0.15 0.06	358	0.00	0.00	0.05	0.06
## 1192	0.15 0.06	370	0.00	0.00	0.05	0.06
## 1193	0.15 0.07	351	0.00	0.00	0.04	0.07
## 1194	0.15 0.07	360	0.00	0.00	0.02	0.07
## 1195	0.15 0.06	360	0.00	0.00	0.04	0.06
## 1196	0.15 0.06	359	0.00	0.00	0.03	0.06
## 1197	0.15 0.06	366	0.00	0.00	0.04	0.06

## 1198	0.15 0.06	357	0.00	0.00	0.05	0.06
## 1199	0.15 0.06	355	0.00	0.00	0.03	0.06
## 1200	0.15 0.07	359	0.00	0.00	0.05	0.07
## 1201	0.15 0.07	352	0.00	0.00	0.05	0.07
## 1202	0.15 0.07	355	0.00	0.00	0.04	0.07
## 1203	0.15 0.07	356	0.00	0.00	0.05	0.07
## 1204	0.15 0.07	359	0.00	0.00	0.03	0.07
## 1205	0.15 0.06	360	0.00	0.00	0.02	0.05
## 1206	0.15 0.05	355	0.00	0.00	0.03	0.04
## 1207	0.15 0.06	362	0.00	0.00	0.04	0.06
## 1208	0.15 0.07	354	0.00	0.00	0.05	0.07
## 1209	0.15 0.08	361	0.00	0.00	0.04	0.07
## 1210	0.15 0.08	338	0.00	0.00	0.04	0.07
## 1211	0.15 0.06	351	0.00	0.00	0.01	0.05
## 1212	0.15 0.06	367	0.00	0.00	0.05	0.06
## 1213	0.15 0.08	358	0.00	0.00	0.04	0.08
## 1214	0.15 0.08	361	0.00	0.00	0.06	0.08
## 1215	0.15 0.08	361	0.00	0.00	0.05	0.08
## 1216	0.15 0.07	363	0.00	0.00	0.04	0.07
## 1217	0.15 0.07	360	0.00	0.00	0.04	0.06
## 1218	0.15 0.06	356	0.00	0.00	0.04	0.06
## 1219	0.15 0.05	353	0.00	0.00	0.04	0.05
## 1220	0.15 0.05	340	0.00	0.00	0.04	0.05
## 1221	0.15 0.05	347	0.00	0.00	0.04	0.05
## 1222	0.15 0.05	350	0.00	0.00	0.04	0.05
## 1223	0.15 0.04	355	0.00	0.00	0.00	0.04
## 1224	0.15 0.02	353	0.00	0.00	0.01	0.02
## 1225	0.15 0.04	360	0.00	0.00	0.02	0.04
## 1226	0.15 0.05	354	0.00	0.00	0.01	0.05
## 1227	0.15 0.02	354	0.00	0.00	0.01	0.02
## 1228	0.15 0.02	353	0.00	0.00	0.01	0.02
## 1229	0.15 0.03	363	0.00	0.00	0.02	0.03
## 1230	0.15 0.04	344	0.00	0.00	0.02	0.04
## 1231	0.15 0.05	374	0.00	0.00	0.03	0.05
## 1232	0.15 0.05	357	0.00	0.00	0.03	0.05
## 1233	0.15 0.06	354	0.00	0.00	0.02	0.06
## 1234	0.15 0.03	356	0.00	0.00	0.02	0.03
## 1235	0.15 0.01	367	0.00	0.00	0.01	0.01
## 1236	0.15 0.01	355	0.00	0.00	0.01	0.01
## 1237	0.15 0.03	359	0.00	0.00	0.02	0.03
## 1238	0.15 0.05	357	0.00	0.00	0.03	0.05
## 1239	0.15 0.04	362	0.00	0.00	0.03	0.04
## 1240	0.15 0.03	365	0.00	0.00	0.02	0.03
## 1241	0.15 0.04	372	0.00	0.00	0.03	0.04
## 1242	0.15 0.05	373	0.00	0.00	0.02	0.05
## 1243	0.15 0.02	365	0.00	0.00	0.01	0.02
## 1244	0.15 0.01	359	0.00	0.00	0.01	0.01
## 1245	0.15 0.02	360	0.00	0.00	0.01	0.01
## 1246	0.15 0.01	376	0.00	0.00	0.01	0.01
## 1247	0.15 0.01	371	0.00	0.00	0.01	0.01
## 1248	0.15 0.02	369	0.00	0.00	0.00	0.02
## 1249	0.15 0.01	367	0.00	0.00	0.00	0.01
## 1250	0.15 0.01	372	0.00	0.00	0.01	0.01
## 1251	0.15 0.02	390	0.00	0.00	0.01	0.02

## 1252	0.15 0.03	374	0.00	0.00	0.01	0.03
## 1253	0.15 0.01	375	0.00	0.00	0.01	0.01
## 1254	0.15 0.01	364	0.00	0.00	0.01	0.01
## 1255	0.15 0.01	362	0.00	0.00	0.01	0.01
## 1256	0.15 0.01	368	0.00	0.00	0.01	0.01
## 1257	0.15 0.01	365	0.00	0.00	0.01	0.01
## 1258	0.15 0.01	371	0.00	0.00	-0.01	0.01
## 1259	0.15 0.01	369	0.00	0.00	-0.01	0.01
## 1260	0.15 0.01	364	0.00	0.00	0.01	0.01
## 1261	0.15 0.01	367	0.00	0.00	0.00	0.01
## 1262	0.15 0.01	363	0.00	0.00	0.00	0.01
## 1263	0.15 0.01	363	0.00	0.00	-0.03	0.01
## 1264	0.15 0.01	362	0.00	0.00	-0.01	0.01
## 1265	0.15 0.01	358	0.00	0.00	0.00	0.01
## 1266	0.15 0.01	383	0.00	0.00	0.00	0.01
## 1267	0.15 0.01	393	0.00	0.00	0.00	0.01
## 1268	0.15 0.01	385	0.00	0.00	0.01	0.01
## 1269	0.15 0.01	374	0.00	0.00	0.01	0.01
## 1270	0.15 0.01	348	0.00	0.00	0.00	0.01
## 1271	0.15 0.01	338	0.00	0.00	-0.04	0.01
## 1272	0.15 0.01	348	0.00	0.00	0.00	0.01
## 1273	0.15 0.01	364	0.00	0.00	0.00	0.01
## 1274	0.15 0.07	72	0.00	0.00	0.05	0.06
## 1275	0.15 0.07	73	0.00	0.00	0.05	0.06
## 1276	0.15 0.07	74	0.00	0.00	0.05	0.06
## 1277	0.15 0.07	73	0.00	0.00	0.05	0.06
## 1278	0.15 0.07	75	0.00	0.00	0.04	0.06
## 1279	0.15 0.07	69	0.00	0.00	0.05	0.06
## 1280	0.15 0.07	68	0.00	0.00	0.05	0.06
## 1281	0.15 0.07	67	0.00	0.00	0.05	0.06
## 1282	0.15 0.07	68	0.00	0.00	0.05	0.06
## 1283	0.15 0.07	66	0.00	0.00	0.05	0.06
## 1284	0.15 0.07	66	0.00	0.00	0.05	0.06
## 1285	0.15 0.07	65	0.00	0.00	0.05	0.06
## 1286	0.15 0.07	70	0.00	0.00	0.05	0.06
## 1287	0.15 0.07	72	0.00	0.00	0.05	0.06
## 1288	0.15 0.07	70	0.00	0.00	0.05	0.06
## 1289	0.15 0.07	66	0.00	0.00	0.05	0.06
## 1290	0.15 0.07	72	0.00	0.00	0.05	0.06
## 1291	0.15 0.07	65	0.00	0.00	0.05	0.06
## 1292	0.15 0.07	67	0.00	0.00	0.05	0.05
## 1293	0.15 0.06	72	0.00	0.00	0.04	0.05
## 1294	0.15 0.05	70	0.00	0.00	0.02	0.03
## 1295	0.15 0.06	74	0.00	0.00	0.04	0.05
## 1296	0.15 0.06	73	0.00	0.00	0.04	0.05
## 1297	0.15 0.06	73	0.00	0.00	0.04	0.05
## 1298	0.15 0.06	72	0.00	0.00	0.04	0.05
## 1299	0.15 0.06	69	0.00	0.00	0.04	0.05
## 1300	0.15 0.06	66	0.00	0.00	0.04	0.05
## 1301	0.15 0.06	64	0.00	0.00	0.04	0.05
## 1302	0.15 0.06	67	0.00	0.00	0.04	0.05
## 1303	0.15 0.06	63	0.00	0.00	0.04	0.05
## 1304	0.15 0.06	62	0.00	0.00	0.04	0.05
## 1305	0.15 0.06	63	0.00	0.00	0.03	0.05

## 1306	0.15 0.06	63	0.00	0.00	0.04	0.05
## 1307	0.15 0.06	60	0.00	0.00	0.04	0.05
## 1308	0.15 0.06	66	0.00	0.00	0.05	0.05
## 1309	0.15 0.06	65	0.00	0.00	0.04	0.05
## 1310	0.15 0.06	64	0.00	0.00	0.04	0.05
## 1311	0.15 0.06	65	0.00	0.00	0.03	0.05
## 1312	0.15 0.06	64	0.00	0.00	0.04	0.05
## 1313	0.15 0.06	67	0.00	0.00	0.04	0.05
## 1314	0.15 0.05	61	0.00	0.00	0.01	0.03
## 1315	0.15 0.06	60	0.00	0.00	0.04	0.05
## 1316	0.15 0.06	70	0.00	0.00	0.04	0.05
## 1317	0.15 0.06	69	0.00	0.00	0.04	0.05
## 1318	0.15 0.06	68	0.00	0.00	0.04	0.05
## 1319	0.15 0.06	67	0.00	0.00	0.04	0.05
## 1320	0.15 0.06	64	0.00	0.00	0.04	0.05
## 1321	0.15 0.06	64	0.00	0.00	0.04	0.05
## 1322	0.15 0.06	63	0.00	0.00	0.04	0.05
## 1323	0.15 0.06	60	0.00	0.00	0.04	0.05
## 1324	0.15 0.06	58	0.00	0.00	0.04	0.05
## 1325	0.15 0.06	60	0.00	0.00	0.04	0.05
## 1326	0.15 0.06	62	0.00	0.00	0.04	0.05
## 1327	0.15 0.10	64	0.00	0.00	0.05	0.09
## 1328	0.15 0.10	68	0.00	0.00	0.07	0.09
## 1329	0.15 0.10	66	0.00	0.00	0.08	0.09
## 1330	0.15 0.10	70	0.00	0.00	0.08	0.09
## 1331	0.15 0.10	71	0.00	0.00	0.05	0.09
## 1332	0.15 0.10	74	0.00	0.00	0.07	0.09
## 1333	0.15 0.10	77	0.00	0.00	0.07	0.09
## 1334	0.15 0.10	77	0.00	0.00	0.05	0.09
## 1335	0.15 0.10	75	0.00	0.00	0.07	0.09
## 1336	0.15 0.08	49	0.00	0.00	0.04	0.06
## 1337	0.15 0.10	70	0.00	0.00	0.05	0.09
## 1338	0.15 0.10	81	0.00	0.00	0.05	0.09
## 1339	0.15 0.10	76	0.00	0.00	0.05	0.09
## 1340	0.15 0.10	77	0.00	0.00	0.05	0.09
## 1341	0.15 0.10	76	0.00	0.00	0.05	0.09
## 1342	0.15 0.10	75	0.00	0.00	0.07	0.08
## 1343	0.15 0.10	75	0.00	0.00	0.05	0.08
## 1344	0.15 0.10	74	0.00	0.00	0.07	0.08
## 1345	0.15 0.10	72	0.00	0.00	0.06	0.08
## 1346	0.15 0.10	73	0.00	0.00	0.07	0.08
## 1347	0.15 0.10	72	0.00	0.00	0.05	0.08
## 1348	0.15 0.10	67	0.00	0.00	0.07	0.08
## 1349	0.15 0.10	70	0.00	0.00	0.06	0.08
## 1350	0.15 0.10	71	0.00	0.00	0.06	0.08
## 1351	0.15 0.10	71	0.00	0.00	0.06	0.08
## 1352	0.15 0.10	68	0.00	0.00	0.07	0.08
## 1353	0.15 0.10	73	0.00	0.00	0.05	0.08
## 1354	0.15 0.10	69	0.00	0.00	0.05	0.08
## 1355	0.15 0.10	65	0.00	0.00	0.07	0.08
## 1356	0.15 0.10	70	0.00	0.00	0.06	0.08
## 1357	0.15 0.07	61	0.00	0.00	0.04	0.06
## 1358	0.15 0.10	74	0.00	0.00	0.05	0.08
## 1359	0.15 0.10	69	0.00	0.00	0.07	0.08



## 1360	0.00 0.10	71	0.00	0.00	0.07	0.08
## 1361	0.15 0.10	70	0.00	0.00	0.07	0.08
## 1362	0.15 0.10	70	0.00	0.00	0.07	0.08
## 1363	0.15 0.10	68	0.00	0.00	0.07	0.08
## 1364	0.15 0.10	69	0.00	0.00	0.07	0.08
## 1365	0.15 0.10	68	0.00	0.00	0.07	0.08
## 1366	0.15 0.10	68	0.00	0.00	0.05	0.08
## 1367	0.15 0.10	65	0.00	0.00	0.07	0.08
## 1368	0.15 0.10	66	0.00	0.00	0.05	0.08
## 1369	0.15 0.10	64	0.00	0.00	0.05	0.08
## 1370	0.15 0.09	65	0.00	0.00	0.07	0.08
## 1371	0.15 0.09	67	0.00	0.00	0.07	0.08
## 1372	0.15 0.09	68	0.00	0.00	0.05	0.08
## 1373	0.15 0.09	67	0.00	0.00	0.07	0.08
## 1374	0.15 0.09	66	0.00	0.00	0.05	0.08
## 1375	0.15 0.09	70	0.00	0.00	0.05	0.07
## 1376	0.15 0.09	69	0.00	0.00	0.05	0.07
## 1377	0.15 0.08	71	0.00	0.00	0.05	0.07
## 1378	0.15 0.08	71	0.00	0.00	0.05	0.07
## 1379	0.15 0.06	59	0.00	0.00	0.05	0.06
## 1380	0.15 0.08	72	0.00	0.00	0.05	0.07
## 1381	0.15 0.08	69	0.00	0.00	0.05	0.07
## 1382	0.15 0.08	68	0.00	0.00	0.06	0.07
## 1383	0.15 0.08	71	0.00	0.00	0.05	0.07
## 1384	0.15 0.08	70	0.00	0.00	0.05	0.07
## 1385	0.15 0.08	70	0.00	0.00	0.05	0.07
## 1386	0.15 0.08	67	0.00	0.00	0.06	0.07
## 1387	0.15 0.08	67	0.00	0.00	0.05	0.07
## 1388	0.15 0.08	69	0.00	0.00	0.05	0.07
## 1389	0.15 0.08	69	0.00	0.00	0.05	0.07
## 1390	0.15 0.08	66	0.00	0.00	0.05	0.07
## 1391	0.15 0.08	64	0.00	0.00	0.05	0.07
## 1392	0.15 0.08	69	0.00	0.00	0.06	0.07
## 1393	0.15 0.08	70	0.00	0.00	0.06	0.07
## 1394	0.15 0.08	71	0.00	0.00	0.06	0.07
## 1395	0.15 0.08	70	0.00	0.00	0.05	0.07
## 1396	0.15 0.08	69	0.00	0.00	0.06	0.07
## 1397	0.15 0.08	72	0.00	0.00	0.05	0.07
## 1398	0.15 0.08	71	0.00	0.00	0.06	0.07
## 1399	0.15 0.08	73	0.00	0.00	0.05	0.07
## 1400	0.15 0.06	52	0.00	0.00	0.05	0.06
## 1401	0.15 0.08	68	0.00	0.00	0.06	0.07
## 1402	0.15 0.08	73	0.00	0.00	0.05	0.07
## 1403	0.15 0.08	74	0.00	0.00	0.05	0.07
## 1404	0.15 0.08	75	0.00	0.00	0.05	0.07
## 1405	0.15 0.08	77	0.00	0.00	0.05	0.07
## 1406	0.15 0.08	77	0.00	0.00	0.05	0.07
## 1407	0.15 0.08	76	0.00	0.00	0.05	0.07
## 1408	0.15 0.08	73	0.00	0.00	0.05	0.07
## 1409	0.15 0.08	72	0.00	0.00	0.05	0.07
## 1410	0.15 0.08	73	0.00	0.00	0.05	0.07
## 1411	0.15 0.08	71	0.00	0.00	0.05	0.07
## 1412	0.15 0.08	70	0.00	0.00	0.05	0.07
## 1413	0.15 0.08	72	0.00	0.00	0.06	0.07

## 1414	0.15 0.08	75	0.00	0.00	0.05	0.07
## 1415	0.15 0.08	74	0.00	0.00	0.05	0.07
## 1416	0.15 0.08	78	0.00	0.00	0.06	0.07
## 1417	0.15 0.08	77	0.00	0.00	0.05	0.07
## 1418	0.15 0.08	78	0.00	0.00	0.06	0.07
## 1419	0.15 0.08	84	0.00	0.00	0.06	0.07
## 1420	0.15 0.07	70	0.00	0.00	0.05	0.06
## 1421	0.15 0.08	78	0.00	0.00	0.05	0.07
## 1422	0.15 0.08	78	0.00	0.00	0.05	0.07
## 1423	0.15 0.08	75	0.00	0.00	0.05	0.07
## 1424	0.15 0.08	76	0.00	0.00	0.05	0.07
## 1425	0.15 0.08	79	0.00	0.00	0.04	0.07
## 1426	0.15 0.08	76	0.00	0.00	0.06	0.07
## 1427	0.15 0.08	75	0.00	0.00	0.06	0.07
## 1428	0.15 0.08	72	0.00	0.00	0.05	0.07
## 1429	0.15 0.08	74	0.00	0.00	0.05	0.07
## 1430	0.15 0.08	77	0.00	0.00	0.05	0.07
## 1431	0.15 0.08	76	0.00	0.00	0.05	0.07
## 1432	0.15 0.08	74	0.00	0.00	0.05	0.07
## 1433	0.15 0.08	77	0.00	0.00	0.06	0.07
## 1434	0.15 0.08	74	0.00	0.00	0.06	0.07
## 1435	0.15 0.08	74	0.00	0.00	0.06	0.07
## 1436	0.15 0.08	74	0.00	0.00	0.06	0.07
## 1437	0.15 0.08	79	0.00	0.00	0.06	0.07
## 1438	0.15 0.08	85	0.00	0.00	0.06	0.07
## 1439	0.13 0.08	85	0.00	0.00	0.06	0.07
## 1440	0.14 0.07	77	0.00	0.00	0.05	0.06
## 1441	0.15 0.08	76	0.00	0.00	0.06	0.07
## 1442	0.14 0.08	78	0.00	0.00	0.06	0.07
## 1443	0.14 0.08	77	0.00	0.00	0.06	0.07
## 1444	0.15 0.08	74	0.00	0.00	0.06	0.07
## 1445	0.15 0.08	74	0.00	0.00	0.06	0.08
## 1446	0.15 0.08	76	0.00	0.00	0.06	0.07
## 1447	0.15 0.08	76	0.00	0.00	0.06	0.07
## 1448	0.15 0.08	74	0.00	0.00	0.06	0.07
## 1449	0.15 0.08	69	0.00	0.00	0.06	0.07
## 1450	0.15 0.08	73	0.00	0.00	0.06	0.07
## 1451	0.15 0.08	74	0.00	0.00	0.06	0.07
## 1452	0.15 0.08	73	0.00	0.00	0.06	0.07
## 1453	0.15 0.08	71	0.00	0.00	0.06	0.07
## 1454	0.15 0.08	72	0.00	0.00	0.06	0.07
## 1455	0.15 0.08	69	0.00	0.00	0.06	0.07
## 1456	0.15 0.08	69	0.00	0.00	0.06	0.07
## 1457	0.17 0.08	71	0.00	0.00	0.06	0.07
## 1458	0.14 0.05	316	0.00	0.00	0.01	0.05
## 1459	0.14 0.05	315	0.00	0.00	0.01	0.05
## 1460	0.14 0.05	308	0.00	0.00	0.01	0.05
## 1461	0.14 0.05	307	0.00	0.00	0.01	0.05
## 1462	0.15 0.05	302	0.00	0.00	0.01	0.05
## 1463	0.14 0.05	321	0.00	0.00	0.01	0.05
## 1464	0.12 0.05	325	0.00	0.00	0.01	0.05
## 1465	0.12 0.05	325	0.00	0.00	0.01	0.05
## 1466	0.12 0.05	329	0.00	0.00	0.01	0.05
## 1467	0.12 0.05	330	0.00	0.00	0.01	0.05

## 1468	0.12 0.05	336	0.00	0.00	0.01	0.05
## 1469	0.12 0.05	338	0.00	0.00	0.01	0.05
## 1470	0.12 0.05	339	0.00	0.00	0.01	0.05
## 1471	0.12 0.05	341	0.00	0.00	0.01	0.05
## 1472	0.12 0.05	333	0.00	0.00	0.01	0.05
## 1473	0.14 0.05	346	0.00	0.00	0.01	0.05
## 1474	0.14 0.05	339	0.00	0.00	0.01	0.05
## 1475	0.14 0.05	337	0.00	0.00	0.01	0.05
## 1476	0.14 0.05	328	0.00	0.00	0.01	0.05
## 1477	0.14 0.05	322	0.00	0.00	0.01	0.05
## 1478	0.14 0.05	336	0.00	0.00	0.01	0.05
## 1479	0.14 0.05	333	0.00	0.00	0.01	0.05
## 1480	0.14 0.05	333	0.00	0.00	0.01	0.05
## 1481	0.14 0.05	332	0.00	0.00	0.01	0.05
## 1482	0.14 0.05	343	0.00	0.00	0.01	0.05
## 1483	0.12 0.05	336	0.00	0.00	0.01	0.05
## 1484	0.12 0.05	328	0.00	0.00	0.01	0.05
## 1485	0.14 0.05	332	0.00	0.00	0.01	0.05
## 1486	0.14 0.05	334	0.00	0.00	0.01	0.05
## 1487	0.14 0.05	335	0.00	0.00	0.01	0.05
## 1488	0.14 0.05	335	0.00	0.00	0.01	0.05
## 1489	0.12 0.05	343	0.00	0.00	0.01	0.05
## 1490	0.12 0.05	337	0.00	0.00	0.01	0.05
## 1491	0.14 0.05	329	0.00	0.00	0.01	0.05
## 1492	0.14 0.05	325	0.00	0.00	0.01	0.05
## 1493	0.14 0.05	332	0.00	0.00	0.01	0.05
## 1494	0.14 0.05	335	0.00	0.00	0.01	0.05
## 1495	0.14 0.05	340	0.00	0.00	0.01	0.05
## 1496	0.14 0.05	335	0.00	0.00	0.01	0.05
## 1497	0.14 0.05	332	0.00	0.00	0.01	0.05
## 1498	0.14 0.05	326	0.00	0.00	0.01	0.05
## 1499	0.14 0.05	332	0.00	0.00	0.01	0.05
## 1500	0.14 0.05	347	0.00	0.00	0.01	0.05
## 1501	0.14 0.05	351	0.00	0.00	0.01	0.05
## 1502	0.14 0.05	361	0.00	0.00	0.01	0.05
## 1503	0.14 0.05	355	0.00	0.00	0.01	0.05
## 1504	0.14 0.05	354	0.00	0.00	0.01	0.05
## 1505	0.14 0.05	355	0.00	0.00	0.01	0.05
## 1506	0.14 0.05	355	0.00	0.00	0.01	0.05
## 1507	0.13 0.05	358	0.00	0.00	0.01	0.05
## 1508	0.14 0.05	357	0.00	0.00	0.01	0.05
## 1509	0.13 0.05	355	0.00	0.00	0.01	0.05
## 1510	0.13 0.05	357	0.00	0.00	0.01	0.05
## 1511	0.12 0.05	353	0.00	0.00	0.01	0.05
## 1512	0.14 0.05	360	0.00	0.00	0.01	0.05
## 1513	0.14 0.05	364	0.00	0.00	0.01	0.05
## 1514	0.35 0.30	365	0.00	0.00	0.10	0.30
## 1515	0.36 0.30	371	0.00	0.00	0.23	0.30
## 1516	0.35 0.30	371	0.00	0.00	0.10	0.30
## 1517	0.35 0.30	353	0.00	0.00	0.22	0.30
## 1518	0.36 0.30	344	0.00	0.00	0.10	0.30
## 1519	0.36 0.30	339	0.00	0.00	0.10	0.30
## 1520	0.36 0.30	328	0.00	0.00	0.16	0.30
## 1521	0.36 0.30	328	0.00	0.00	0.10	0.30

## 1522	0.36 0.30	320	0.00	0.00	0.10	0.30
## 1523	0.38 0.30	310	0.00	0.00	0.15	0.29
## 1524	0.39 0.30	288	0.00	0.00	0.20	0.29
## 1525	0.36 0.30	321	0.00	0.00	0.22	0.29
## 1526	0.36 0.30	319	0.00	0.00	0.10	0.29
## 1527	0.36 0.30	323	0.00	0.00	0.10	0.29
## 1528	0.36 0.30	322	0.00	0.00	0.20	0.29
## 1529	0.36 0.30	327	0.00	0.00	0.15	0.29
## 1530	0.36 0.30	328	0.00	0.00	0.24	0.29
## 1531	0.36 0.30	327	0.00	0.00	0.10	0.29
## 1532	0.36 0.30	327	0.00	0.00	0.20	0.28
## 1533	0.37 0.30	330	0.00	0.00	0.23	0.28
## 1534	0.36 0.30	328	0.00	0.00	0.22	0.28
## 1535	0.45 0.29	896	0.00	0.00	0.10	0.27
## 1536	0.45 0.28	895	0.00	0.00	0.21	0.26
## 1537	0.45 0.27	912	0.00	0.00	0.20	0.24
## 1538	0.45 0.26	906	0.00	0.00	0.19	0.23
## 1539	0.45 0.27	901	0.00	0.00	0.20	0.24
## 1540	0.45 0.27	898	0.00	0.00	0.15	0.25
## 1541	0.45 0.27	897	0.00	0.00	0.20	0.25
## 1542	0.45 0.28	882	0.00	0.00	0.21	0.26
## 1543	0.45 0.28	892	0.00	0.00	0.21	0.26
## 1544	0.45 0.28	915	0.00	0.00	0.10	0.26
## 1545	0.45 0.30	984	0.00	0.00	0.23	0.27
## 1546	0.45 0.30	923	0.00	0.00	0.23	0.28
## 1547	0.45 0.30	947	0.00	0.00	0.22	0.27
## 1548	0.95 0.79	992	0.00	0.00	0.72	0.77
## 1549	0.95 0.78	979	0.00	0.00	0.72	0.76
## 1550	0.95 0.78	931	0.00	0.00	0.72	0.76
## 1551	0.95 0.78	914	0.00	0.00	0.72	0.76
## 1552	0.95 0.78	925	0.00	0.00	0.72	0.76
## 1553	0.95 0.79	922	0.00	0.00	0.71	0.77
## 1554	0.95 0.79	917	0.00	0.00	0.71	0.77
## 1555	0.95 0.80	1013	0.00	0.00	0.65	0.78
## 1556	0.95 0.80	977	0.00	0.00	0.70	0.78
## 1557	0.95 0.79	939	0.00	0.00	0.73	0.77
## 1558	0.95 0.79	982	0.00	0.00	0.71	0.77
## 1559	0.95 0.78	943	0.00	0.00	0.71	0.76
## 1560	0.95 0.78	984	0.00	0.00	0.71	0.76
## 1561	0.95 0.78	968	0.00	0.00	0.72	0.76
## 1562	0.95 0.78	942	0.00	0.00	0.72	0.76
## 1563	0.95 0.78	955	0.00	0.00	0.70	0.76
## 1564	0.95 0.78	963	0.00	0.00	0.72	0.76
## 1565	0.95 0.79	1040	0.00	0.00	0.71	0.77
## 1566	0.95 0.80	994	0.00	0.00	0.73	0.77
## 1567	0.95 0.79	974	0.00	0.00	0.70	0.77
## 1568	0.95 0.78	954	0.00	0.00	0.73	0.76
## 1569	0.95 0.78	959	0.00	0.00	0.72	0.76
## 1570	0.95 0.77	947	0.00	0.00	0.70	0.75
## 1571	0.95 0.76	959	0.00	0.00	0.70	0.74
## 1572	0.95 0.75	985	0.00	0.00	0.65	0.74
## 1573	0.95 0.75	960	0.00	0.00	0.60	0.73
## 1574	0.95 0.73	970	0.00	0.00	0.65	0.71
## 1575	0.95 0.69	925	0.00	0.00	0.60	0.67

## 1576	0.95 0.70	917	0.00	0.00	0.63	0.68
## 1577	1.70 1.45	976	0.00	0.00	1.00	1.42
## 1578	1.70 1.45	923	0.00	0.00	1.38	1.43
## 1579	1.70 1.45	957	0.00	0.00	1.00	1.43
## 1580	1.70 1.45	942	0.00	0.00	1.37	1.43
## 1581	1.70 1.44	944	0.00	0.00	1.35	1.42
## 1582	1.70 1.46	926	0.00	0.00	1.38	1.43
## 1583	1.70 1.50	945	0.00	0.00	1.40	1.47
## 1584	1.70 1.52	929	0.00	0.00	1.42	1.48
## 1585	1.70 1.51	940	0.00	0.00	1.42	1.48
## 1586	1.70 1.50	995	0.00	0.00	0.75	1.47
## 1587	1.70 1.52	1001	0.00	0.00	1.43	1.48
## 1588	1.70 1.54	1042	0.00	0.00	1.40	1.50
## 1589	1.70 1.54	966	0.00	0.00	1.45	1.50
## 1590	1.70 1.54	966	0.00	0.00	1.45	1.50
## 1591	1.70 1.53	942	0.00	0.00	1.00	1.50
## 1592	1.70 1.53	930	0.00	0.00	1.44	1.50
## 1593	1.70 1.54	941	0.00	0.00	1.45	1.50
## 1594	1.70 1.53	924	0.00	0.00	1.44	1.50
## 1595	1.70 1.53	934	0.00	0.00	1.45	1.50
## 1596	1.70 1.54	950	0.00	0.00	1.45	1.51
## 1597	1.70 1.54	947	0.00	0.00	1.45	1.51
## 1598	1.70 1.54	933	0.00	0.00	1.45	1.51
## 1599	1.70 1.53	916	0.00	0.00	1.43	1.50
## 1600	1.70 1.53	960	0.00	0.00	1.20	1.50
## 1601	1.70 1.52	931	0.00	0.00	1.45	1.50
## 1602	1.70 1.53	985	0.00	0.00	1.41	1.50
## 1603	1.70 1.53	951	0.00	0.00	1.45	1.50
## 1604	1.70 1.53	941	0.00	0.00	1.40	1.50
## 1605	2.45 2.28	965	0.00	0.00	1.55	2.25
## 1606	2.45 2.27	949	0.00	0.00	2.19	2.25
## 1607	2.45 2.28	1035	0.00	0.00	2.18	2.25
## 1608	2.45 2.30	1015	0.00	0.00	2.20	2.27
## 1609	2.45 2.29	984	0.00	0.00	2.18	2.26
## 1610	2.45 2.29	981	0.00	0.00	2.20	2.26
## 1611	2.45 2.28	965	0.00	0.00	2.19	2.26
## 1612	2.45 2.28	950	0.00	0.00	2.19	2.26
## 1613	2.45 2.29	947	0.00	0.00	2.20	2.26
## 1614	2.45 2.28	970	0.00	0.00	2.19	2.26
## 1615	2.45 2.28	965	0.00	0.00	2.18	2.26
## 1616	2.45 2.28	966	0.00	0.00	2.19	2.26
## 1617	2.45 2.29	1014	0.00	0.00	2.19	2.26
## 1618	2.45 2.29	974	0.00	0.00	2.20	2.26
## 1619	2.45 2.29	966	0.00	0.00	2.19	2.26
## 1620	2.45 2.28	973	0.00	0.00	2.18	2.26
## 1621	2.45 2.28	960	0.00	0.00	2.18	2.26
## 1622	2.45 2.28	994	0.00	0.00	2.15	2.25
## 1623	2.45 2.27	952	0.00	0.00	2.18	2.25
## 1624	2.45 2.27	969	0.00	0.00	2.18	2.25
## 1625	2.45 2.28	970	0.00	0.00	2.20	2.25
## 1626	2.45 2.28	953	0.00	0.00	2.20	2.25
## 1627	2.45 2.28	963	0.00	0.00	2.19	2.25
## 1628	2.45 2.29	948	0.00	0.00	2.20	2.26
## 1629	2.45 2.29	1024	0.00	0.00	2.15	2.26

## 1630	2.45 2.29	979	0.00	0.00	2.20	2.26
## 1631	2.45 2.29	965	0.00	0.00	2.19	2.26
## 1632	2.45 2.29	989	0.00	0.00	2.18	2.26
## 1633	2.45 2.28	958	0.00	0.00	2.19	2.26
## 1634	2.45 2.28	981	0.00	0.00	2.18	2.26
## 1635	2.45 2.28	958	0.00	0.00	2.20	2.26
## 1636	2.45 2.28	980	0.00	0.00	2.20	2.26
## 1637	2.45 2.28	957	0.00	0.00	2.18	2.26
## 1638	2.45 2.27	951	0.00	0.00	2.20	2.25
## 1639	2.45 2.28	981	0.00	0.00	2.18	2.26
## 1640	2.45 2.27	952	0.00	0.00	2.10	2.25
## 1641	2.45 2.27	948	0.00	0.00	2.15	2.25
## 1642	2.45 2.26	967	0.00	0.00	2.05	2.24
## 1643	2.45 2.25	951	0.00	0.00	2.12	2.23
## 1644	3.20 2.99	1023	0.00	0.00	2.26	2.97
## 1645	3.20 2.99	968	0.00	0.00	2.90	2.97
## 1646	3.20 2.99	976	0.00	0.00	2.80	2.96
## 1647	3.20 2.98	949	0.00	0.00	2.83	2.96
## 1648	3.20 2.98	911	0.00	0.00	2.88	2.95
## 1649	3.20 2.96	906	0.00	0.00	2.88	2.94
## 1650	3.20 2.98	956	0.00	0.00	2.88	2.95
## 1651	3.20 3.00	1009	0.00	0.00	2.93	2.97
## 1652	3.20 3.04	996	0.00	0.00	2.95	3.00
## 1653	3.20 3.04	992	0.00	0.00	2.95	3.00
## 1654	3.20 3.05	985	0.00	0.00	2.95	3.00
## 1655	3.20 3.05	968	0.00	0.00	2.95	3.00
## 1656	3.20 3.05	993	0.00	0.00	2.95	3.00
## 1657	3.20 3.04	972	0.00	0.00	2.95	3.00
## 1658	3.20 3.04	1000	0.00	0.00	2.95	3.00
## 1659	3.20 3.04	958	0.00	0.00	2.95	3.00
## 1660	3.20 3.05	979	0.00	0.00	2.95	3.00
## 1661	3.20 3.04	967	0.00	0.00	2.95	3.00
## 1662	3.20 3.04	919	0.00	0.00	2.94	3.00
## 1663	3.20 3.03	963	0.00	0.00	2.93	3.00
## 1664	3.20 3.02	955	0.00	0.00	2.93	2.99
## 1665	3.20 3.01	962	0.00	0.00	2.93	2.99
## 1666	3.20 3.02	961	0.00	0.00	2.93	3.00
## 1667	3.20 3.03	972	0.00	0.00	2.95	3.00
## 1668	3.20 3.04	973	0.00	0.00	2.94	3.00
## 1669	3.20 3.05	951	0.00	0.00	2.95	3.00
## 1670	3.20 3.05	1075	0.00	0.00	2.93	3.01
## 1671	3.20 3.05	1079	0.00	0.00	2.95	3.01
## 1672	3.20 3.05	1021	0.00	0.00	2.95	3.01
## 1673	3.95 3.80	1074	0.00	0.00	3.25	3.76
## 1674	3.95 3.80	1014	0.00	0.00	3.70	3.76
## 1675	3.95 3.78	981	0.00	0.00	3.70	3.75
## 1676	3.95 3.78	978	0.00	0.00	3.69	3.75
## 1677	3.95 3.78	969	0.00	0.00	3.70	3.75
## 1678	3.95 3.78	987	0.00	0.00	3.70	3.75
## 1679	3.95 3.79	1041	0.00	0.00	3.70	3.75
## 1680	3.95 3.80	1149	0.00	0.00	3.70	3.78
## 1681	3.95 3.81	1096	0.00	0.00	3.72	3.78
## 1682	3.95 3.80	1075	0.00	0.00	3.71	3.78
## 1683	3.95 3.80	1037	0.00	0.00	3.71	3.77

## 1684	3.95 3.80	1015	0.00	0.00	3.70	3.76
## 1685	3.95 3.80	1038	0.00	0.00	3.71	3.76
## 1686	3.95 3.79	984	0.00	0.00	3.70	3.76
## 1687	3.95 3.80	1003	0.00	0.00	3.71	3.77
## 1688	3.95 3.80	1058	0.00	0.00	3.71	3.77
## 1689	3.95 3.81	1026	0.00	0.00	3.72	3.78
## 1690	3.95 3.82	1113	0.00	0.00	3.71	3.80
## 1691	3.95 3.82	1174	0.00	0.00	3.73	3.80
## 1692	3.95 3.81	1132	0.00	0.00	3.72	3.80
## 1693	3.95 3.81	1096	0.00	0.00	3.72	3.79
## 1694	3.95 3.80	1088	0.00	0.00	3.72	3.78
## 1695	3.95 3.80	1088	0.00	0.00	3.72	3.76
## 1696	3.95 3.80	1087	0.00	0.00	3.72	3.77
## 1697	3.95 3.80	1058	0.00	0.00	3.71	3.77
## 1698	3.95 3.80	1042	0.00	0.00	3.72	3.77
## 1699	3.95 3.80	1051	0.00	0.00	3.72	3.77
## 1700	3.95 3.80	1045	0.00	0.00	3.72	3.77
## 1701	4.45 4.32	1144	0.00	0.00	4.20	4.30
## 1702	4.45 4.32	1091	0.00	0.00	4.23	4.30
## 1703	4.45 4.30	1087	0.00	0.00	4.22	4.28
## 1704	4.45 4.30	1048	0.00	0.00	4.20	4.27
## 1705	4.45 4.30	1031	0.00	0.00	4.20	4.26
## 1706	4.45 4.30	1013	0.00	0.00	4.20	4.26
## 1707	4.45 4.30	991	0.00	0.00	4.21	4.26
## 1708	4.45 4.30	1048	0.00	0.00	4.15	4.27
## 1709	4.45 4.30	1005	0.00	0.00	4.21	4.27
## 1710	4.45 4.30	1037	0.00	0.00	4.20	4.26
##	PercentileS75	PercentileS99	IORR	RRPONT	TSYAWARD	
## 1	0.37	0.52	0.00		0.00	
## 2	0.37	0.50	0.00		0.00	
## 3	0.37	0.50	0.00		0.00	
## 4	0.37	0.52	0.00		0.00	
## 5	0.37	0.75	0.00		0.00	
## 6	0.37	0.50	0.00		0.00	
## 7	0.37	0.50	0.00		0.00	
## 8	0.37	0.50	0.00		0.00	
## 9	0.37	0.50	0.00		0.00	
## 10	0.37	0.50	0.00		0.00	
## 11	0.37	0.55	0.00		0.00	
## 12	0.37	0.56	0.00		0.00	
## 13	0.37	0.55	0.00		0.00	
## 14	0.37	0.55	0.00		0.00	
## 15	0.37	0.56	0.00		0.00	
## 16	0.37	0.56	0.00		0.00	
## 17	0.37	0.56	0.00		0.00	
## 18	0.37	0.55	0.00		0.00	
## 19	0.37	0.56	0.00		0.00	
## 20	0.26	0.56	0.00		0.00	
## 21	0.37	0.55	0.00		0.00	
## 22	0.37	0.55	0.00		0.00	
## 23	0.37	0.55	0.00		0.00	
## 24	0.37	0.55	0.00		0.00	
## 25	0.37	0.53	0.00		0.00	
## 26	0.37	0.53	0.00		0.00	

## 27	0.37	0.50 0.00	0.00
## 28	0.37	0.50 0.00	0.00
## 29	0.37	0.53 0.00	0.00
## 30	0.37	0.56 0.00	0.00
## 31	0.38	0.50 0.00	0.00
## 32	0.37	0.56 0.00	0.00
## 33	0.37	0.56 0.00	0.00
## 34	0.37	0.56 0.00	0.00
## 35	0.37	0.56 0.00	0.00
## 36	0.37	0.56 0.00	0.00
## 37	0.37	0.56 0.00	0.00
## 38	0.37	0.56 0.00	0.00
## 39	0.37	0.56 0.00	0.00
## 40	0.38	0.56 0.00	0.00
## 41	0.30	0.56 0.00	0.00
## 42	0.37	0.56 0.00	0.00
## 43	0.38	0.56 0.00	0.00
## 44	0.38	0.56 0.00	0.00
## 45	0.38	0.56 0.00	0.00
## 46	0.38	0.56 0.00	0.00
## 47	0.38	0.56 0.00	0.00
## 48	0.38	0.53 0.00	0.00
## 49	0.38	0.55 0.00	0.00
## 50	0.38	0.55 0.00	0.00
## 51	0.38	0.56 0.00	0.00
## 52	0.38	0.56 0.00	0.00
## 53	0.38	0.56 0.00	0.00
## 54	0.38	0.55 0.00	0.00
## 55	0.38	0.56 0.00	0.00
## 56	0.38	0.56 0.00	0.00
## 57	0.38	0.56 0.00	0.00
## 58	0.38	0.56 0.00	0.00
## 59	0.38	0.50 0.00	0.00
## 60	0.38	0.56 0.00	0.00
## 61	0.38	0.56 0.00	0.00
## 62	0.30	0.56 0.00	0.00
## 63	0.38	0.53 0.00	0.00
## 64	0.38	0.53 0.00	0.00
## 65	0.38	0.50 0.00	0.00
## 66	0.38	0.54 0.00	0.00
## 67	0.38	0.55 0.00	0.00
## 68	0.38	0.54 0.00	0.00
## 69	0.38	0.54 0.00	0.00
## 70	0.38	0.52 0.00	0.00
## 71	0.38	0.54 0.00	0.00
## 72	0.38	0.55 0.00	0.00
## 73	0.38	0.56 0.00	0.00
## 74	0.38	0.56 0.00	0.00
## 75	0.38	0.53 0.00	0.00
## 76	0.39	0.56 0.00	0.00
## 77	0.39	0.56 0.00	0.00
## 78	0.39	0.56 0.00	0.00
## 79	0.39	0.56 0.00	0.00
## 80	0.42	0.56 0.00	0.00



## 81	0.42	0.56 0.00	0.00
## 82	0.42	0.56 0.00	0.00
## 83	0.42	0.56 0.00	0.00
## 84	0.32	0.56 0.00	0.00
## 85	0.41	0.56 0.00	0.00
## 86	0.41	0.75 0.00	0.00
## 87	0.41	0.55 0.00	0.00
## 88	0.41	0.56 0.00	0.00
## 89	0.41	0.55 0.00	0.00
## 90	0.41	0.56 0.00	0.00
## 91	0.41	0.56 0.00	0.00
## 92	0.41	0.51 0.00	0.00
## 93	0.41	0.56 0.00	0.00
## 94	0.41	0.50 0.00	0.00
## 95	0.41	0.55 0.00	0.00
## 96	0.41	0.50 0.00	0.00
## 97	0.41	0.50 0.00	0.00
## 98	0.41	0.56 0.00	0.00
## 99	0.41	0.55 0.00	0.00
## 100	0.41	0.56 0.00	0.00
## 101	0.41	0.56 0.00	0.00
## 102	0.41	0.56 0.50	0.00
## 103	0.41	0.56 0.50	0.00
## 104	0.31	0.56 0.50	0.00
## 105	0.41	0.53 0.50	0.00
## 106	0.41	0.50 0.50	0.00
## 107	0.41	0.50 0.50	0.00
## 108	0.41	0.50 0.50	0.00
## 109	0.41	0.51 0.50	0.00
## 110	0.41	0.53 0.50	0.00
## 111	0.41	0.50 0.50	0.00
## 112	0.41	0.50 0.50	0.00
## 113	0.41	0.50 0.50	0.00
## 114	0.41	0.50 0.50	0.00
## 115	0.41	0.50 0.50	0.00
## 116	0.41	0.50 0.50	0.00
## 117	0.41	0.50 0.50	0.00
## 118	0.41	0.50 0.50	0.00
## 119	0.41	0.53 0.50	0.00
## 120	0.41	0.56 0.50	0.00
## 121	0.41	0.53 0.50	0.00
## 122	0.41	0.55 0.50	0.00
## 123	0.41	0.55 0.50	0.00
## 124	0.41	0.50 0.50	0.00
## 125	0.41	0.53 0.50	0.00
## 126	0.41	0.55 0.50	0.00
## 127	0.31	0.50 0.50	0.00
## 128	0.41	0.50 0.50	0.00
## 129	0.41	0.50 0.50	0.00
## 130	0.41	0.50 0.50	0.00
## 131	0.41	0.55 0.50	0.00
## 132	0.41	0.50 0.50	0.00
## 133	0.41	0.50 0.50	0.00
## 134	0.41	0.55 0.50	0.00

## 135	0.41	0.50 0.50	0.00
## 136	0.41	0.50 0.50	0.00
## 137	0.41	0.55 0.50	0.00
## 138	0.41	0.50 0.50	0.00
## 139	0.41	0.53 0.50	0.00
## 140	0.41	0.53 0.50	0.00
## 141	0.41	0.50 0.50	0.00
## 142	0.41	0.53 0.50	0.00
## 143	0.41	0.50 0.50	0.00
## 144	0.41	0.50 0.50	0.00
## 145	0.41	0.50 0.50	0.00
## 146	0.41	0.50 0.50	0.00
## 147	0.41	0.50 0.50	0.00
## 148	0.30	0.50 0.50	0.00
## 149	0.41	0.50 0.50	0.00
## 150	0.41	0.50 0.50	0.00
## 151	0.41	0.50 0.50	0.00
## 152	0.41	0.50 0.50	0.00
## 153	0.41	0.50 0.50	0.00
## 154	0.41	0.55 0.50	0.00
## 155	0.41	0.50 0.50	0.00
## 156	0.41	0.50 0.50	0.00
## 157	0.41	0.50 0.50	0.00
## 158	0.41	0.50 0.50	0.00
## 159	0.41	0.50 0.50	0.00
## 160	0.41	0.50 0.50	0.00
## 161	0.41	0.50 0.50	0.00
## 162	0.41	0.55 0.50	0.00
## 163	0.41	0.55 0.50	0.00
## 164	0.41	0.50 0.50	0.00
## 165	0.41	0.50 0.50	0.00
## 166	0.41	0.50 0.50	0.00
## 167	0.41	0.50 0.50	0.00
## 168	0.32	0.50 0.50	0.00
## 169	0.41	0.50 0.50	0.00
## 170	0.41	0.50 0.50	0.00
## 171	0.41	0.50 0.50	0.00
## 172	0.41	0.50 0.50	0.00
## 173	0.41	0.50 0.50	0.00
## 174	0.41	0.50 0.50	0.00
## 175	0.41	0.50 0.50	0.00
## 176	0.41	0.50 0.50	0.00
## 177	0.41	0.50 0.50	0.00
## 178	0.41	0.50 0.50	0.00
## 179	0.41	0.50 0.50	0.00
## 180	0.41	0.50 0.50	0.00
## 181	0.41	0.52 0.50	0.00
## 182	0.41	0.56 0.50	0.00
## 183	0.41	0.53 0.50	0.00
## 184	0.41	0.50 0.50	0.00
## 185	0.41	0.50 0.50	0.00
## 186	0.41	0.53 0.50	0.00
## 187	0.41	0.50 0.50	0.00
## 188	0.32	0.55 0.50	0.00

## 189	0.41	0.50 0.50	0.00
## 190	0.41	0.49 0.50	0.00
## 191	0.41	0.50 0.50	0.00
## 192	0.41	0.50 0.50	0.00
## 193	0.41	0.50 0.50	0.00
## 194	0.41	0.50 0.50	0.00
## 195	0.41	0.50 0.50	0.00
## 196	0.41	0.53 0.50	0.00
## 197	0.41	0.50 0.50	0.00
## 198	0.41	0.50 0.75	0.00
## 199	0.66	0.75 0.75	0.00
## 200	0.66	0.75 0.75	0.00
## 201	0.66	0.80 0.75	0.00
## 202	0.66	0.75 0.75	0.00
## 203	0.66	0.78 0.75	0.00
## 204	0.66	0.80 0.75	0.00
## 205	0.66	0.80 0.75	0.00
## 206	0.66	0.80 0.75	0.00
## 207	0.67	0.81 0.75	0.00
## 208	0.66	0.80 0.75	0.00
## 209	0.55	0.82 0.75	0.00
## 210	0.66	0.80 0.75	0.00
## 211	0.66	0.75 0.75	0.00
## 212	0.66	0.78 0.75	0.00
## 213	0.66	0.80 0.75	0.00
## 214	0.67	0.75 0.75	0.00
## 215	0.67	0.80 0.75	0.00
## 216	0.67	0.75 0.75	0.00
## 217	0.67	0.75 0.75	0.00
## 218	0.67	0.75 0.75	0.00
## 219	0.68	0.80 0.75	0.00
## 220	0.67	0.75 0.75	0.00
## 221	0.68	0.80 0.75	0.00
## 222	0.68	0.78 0.75	0.00
## 223	0.68	0.81 0.75	0.00
## 224	0.67	0.80 0.75	0.00
## 225	0.68	0.78 0.75	0.00
## 226	0.67	0.78 0.75	0.00
## 227	0.67	0.78 0.75	0.00
## 228	0.67	0.80 0.75	0.00
## 229	0.57	0.80 0.75	0.00
## 230	0.67	0.80 0.75	0.00
## 231	0.67	0.80 0.75	0.00
## 232	0.67	0.80 0.75	0.00
## 233	0.67	0.80 0.75	0.00
## 234	0.67	0.80 0.75	0.00
## 235	0.67	0.80 0.75	0.00
## 236	0.67	0.80 0.75	0.00
## 237	0.67	0.80 0.75	0.00
## 238	0.67	0.80 0.75	0.00
## 239	0.67	0.80 0.75	0.00
## 240	0.67	0.80 0.75	0.00
## 241	0.67	0.80 0.75	0.00
## 242	0.67	0.80 0.75	0.00

## 243	0.67	0.80 0.75	0.00
## 244	0.67	0.80 0.75	0.00
## 245	0.67	0.80 0.75	0.00
## 246	0.67	0.80 0.75	0.00
## 247	0.67	0.78 0.75	0.00
## 248	0.57	0.78 0.75	0.00
## 249	0.67	0.75 0.75	0.00
## 250	0.67	0.78 0.75	0.00
## 251	0.67	0.75 0.75	0.00
## 252	0.67	0.80 0.75	0.00
## 253	0.67	0.75 0.75	0.00
## 254	0.67	0.80 0.75	0.00
## 255	0.67	0.80 0.75	0.00
## 256	0.67	0.78 0.75	0.00
## 257	0.67	0.75 0.75	0.00
## 258	0.67	0.75 0.75	0.00
## 259	0.67	0.80 1.00	0.00
## 260	0.91	1.03 1.00	0.00
## 261	0.91	1.03 1.00	0.00
## 262	0.91	1.05 1.00	0.00
## 263	0.91	1.03 1.00	0.00
## 264	0.91	1.00 1.00	0.00
## 265	0.91	1.03 1.00	0.00
## 266	0.91	1.05 1.00	0.00
## 267	0.91	1.03 1.00	0.00
## 268	0.91	1.00 1.00	0.00
## 269	0.91	1.00 1.00	0.00
## 270	0.91	1.00 1.00	0.00
## 271	0.82	1.00 1.00	0.00
## 272	0.91	1.00 1.00	0.00
## 273	0.91	0.97 1.00	0.00
## 274	0.91	0.97 1.00	0.00
## 275	0.91	1.00 1.00	0.00
## 276	0.91	1.00 1.00	0.00
## 277	0.92	1.00 1.00	0.00
## 278	0.92	1.00 1.00	0.00
## 279	0.92	1.00 1.00	0.00
## 280	0.92	1.00 1.00	0.00
## 281	0.91	1.00 1.00	0.00
## 282	0.91	1.00 1.00	0.00
## 283	0.92	1.00 1.00	0.00
## 284	0.92	1.00 1.00	0.00
## 285	0.92	1.00 1.00	0.00
## 286	0.92	1.00 1.00	0.00
## 287	0.92	1.05 1.00	0.00
## 288	0.92	1.05 1.00	0.00
## 289	0.92	1.00 1.00	0.00
## 290	0.92	1.05 1.00	0.00
## 291	0.84	1.06 1.00	0.00
## 292	0.92	1.05 1.00	0.00
## 293	0.92	1.03 1.00	0.00
## 294	0.92	1.00 1.00	0.00
## 295	0.92	1.03 1.00	0.00
## 296	0.92	1.00 1.00	0.00

## 297	0.92	1.00 1.00	0.00
## 298	0.92	1.00 1.00	0.00
## 299	0.92	1.00 1.00	0.00
## 300	0.92	0.97 1.00	0.00
## 301	0.92	0.97 1.00	0.00
## 302	0.92	0.97 1.00	0.00
## 303	0.92	1.00 1.00	0.00
## 304	0.92	1.00 1.00	0.00
## 305	0.92	1.00 1.00	0.00
## 306	0.92	1.00 1.00	0.00
## 307	0.92	1.05 1.00	0.00
## 308	0.92	1.05 1.00	0.00
## 309	0.92	1.00 1.00	0.00
## 310	0.92	1.05 1.00	0.00
## 311	0.92	1.00 1.00	0.00
## 312	0.92	1.00 1.00	0.00
## 313	0.83	1.05 1.00	0.00
## 314	0.92	1.05 1.00	0.00
## 315	0.92	1.00 1.00	0.00
## 316	0.92	1.05 1.00	0.00
## 317	0.92	1.00 1.00	0.00
## 318	0.92	1.00 1.00	0.00
## 319	0.92	1.00 1.00	0.00
## 320	0.92	1.00 1.00	0.00
## 321	0.92	1.03 1.00	0.00
## 322	0.92	1.05 1.00	0.00
## 323	0.92	1.00 1.25	0.00
## 324	1.17	1.22 1.25	0.00
## 325	1.17	1.25 1.25	0.00
## 326	1.17	1.25 1.25	0.00
## 327	1.17	1.28 1.25	0.00
## 328	1.17	1.28 1.25	0.00
## 329	1.17	1.31 1.25	0.00
## 330	1.17	1.31 1.25	0.00
## 331	1.17	1.31 1.25	0.00
## 332	1.17	1.31 1.25	0.00
## 333	1.17	1.30 1.25	0.00
## 334	1.17	1.30 1.25	0.00
## 335	1.06	1.31 1.25	0.00
## 336	1.17	1.31 1.25	0.00
## 337	1.17	1.30 1.25	0.00
## 338	1.17	1.30 1.25	0.00
## 339	1.17	1.28 1.25	0.00
## 340	1.17	1.30 1.25	0.00
## 341	1.17	1.25 1.25	0.00
## 342	1.17	1.25 1.25	0.00
## 343	1.17	1.25 1.25	0.00
## 344	1.17	1.25 1.25	0.00
## 345	1.17	1.30 1.25	0.00
## 346	1.17	1.25 1.25	0.00
## 347	1.17	1.25 1.25	0.00
## 348	1.17	1.30 1.25	0.00
## 349	1.17	1.31 1.25	0.00
## 350	1.17	1.30 1.25	0.00

## 351	1.17	1.25 1.25	0.00
## 352	1.17	1.28 1.25	0.00
## 353	1.17	1.25 1.25	0.00
## 354	1.17	1.25 1.25	0.00
## 355	1.07	1.25 1.25	0.00
## 356	1.17	1.22 1.25	0.00
## 357	1.17	1.25 1.25	0.00
## 358	1.17	1.25 1.25	0.00
## 359	1.17	1.25 1.25	0.00
## 360	1.17	1.25 1.25	0.00
## 361	1.17	1.25 1.25	0.00
## 362	1.17	1.25 1.25	0.00
## 363	1.17	1.25 1.25	0.00
## 364	1.17	1.25 1.25	0.00
## 365	1.17	1.25 1.25	0.00
## 366	1.17	1.25 1.25	0.00
## 367	1.17	1.22 1.25	0.00
## 368	1.17	1.25 1.25	0.00
## 369	1.17	1.25 1.25	0.00
## 370	1.17	1.25 1.25	0.00
## 371	1.17	1.25 1.25	0.00
## 372	1.17	1.25 1.25	0.00
## 373	1.17	1.25 1.25	0.00
## 374	1.17	1.25 1.25	0.00
## 375	1.17	1.25 1.25	0.00
## 376	1.17	1.25 1.25	0.00
## 377	1.17	1.25 1.25	0.00
## 378	1.08	1.28 1.25	0.00
## 379	1.17	1.25 1.25	0.00
## 380	1.17	1.25 1.25	0.00
## 381	1.17	1.22 1.25	0.00
## 382	1.17	1.25 1.25	0.00
## 383	1.17	1.25 1.25	0.00
## 384	1.17	1.25 1.25	0.00
## 385	1.17	1.25 1.25	0.00
## 386	1.17	1.22 1.25	0.00
## 387	1.17	1.25 1.25	0.00
## 388	1.17	1.25 1.25	0.00
## 389	1.17	1.30 1.25	0.00
## 390	1.17	1.25 1.25	0.00
## 391	1.17	1.30 1.25	0.00
## 392	1.17	1.30 1.25	0.00
## 393	1.17	1.25 1.25	0.00
## 394	1.17	1.25 1.25	0.00
## 395	1.17	1.25 1.25	0.00
## 396	1.17	1.25 1.25	0.00
## 397	1.17	1.25 1.25	0.00
## 398	1.07	1.30 1.25	0.00
## 399	1.17	1.25 1.25	0.00
## 400	1.17	1.25 1.25	0.00
## 401	1.17	1.22 1.25	0.00
## 402	1.17	1.25 1.25	0.00
## 403	1.17	1.25 1.25	0.00
## 404	1.17	1.25 1.25	0.00

## 405	1.17	1.25 1.25	0.00
## 406	1.17	1.25 1.25	0.00
## 407	1.17	1.25 1.25	0.00
## 408	1.17	1.28 1.25	0.00
## 409	1.17	1.25 1.25	0.00
## 410	1.17	1.25 1.25	0.00
## 411	1.17	1.25 1.25	0.00
## 412	1.17	1.25 1.25	0.00
## 413	1.17	1.25 1.25	0.00
## 414	1.17	1.25 1.25	0.00
## 415	1.17	1.25 1.25	0.00
## 416	1.17	1.25 1.25	0.00
## 417	1.17	1.25 1.25	0.00
## 418	1.17	1.25 1.25	0.00
## 419	1.08	1.28 1.25	0.00
## 420	1.17	1.25 1.25	0.00
## 421	1.17	1.25 1.25	0.00
## 422	1.17	1.25 1.25	0.00
## 423	1.17	1.25 1.25	0.00
## 424	1.17	1.25 1.25	0.00
## 425	1.17	1.25 1.25	0.00
## 426	1.17	1.22 1.25	0.00
## 427	1.17	1.25 1.25	0.00
## 428	1.17	1.25 1.25	0.00
## 429	1.17	1.25 1.25	0.00
## 430	1.17	1.28 1.25	0.00
## 431	1.17	1.28 1.25	0.00
## 432	1.17	1.30 1.25	0.00
## 433	1.17	1.28 1.25	0.00
## 434	1.17	1.28 1.25	0.00
## 435	1.17	1.28 1.25	0.00
## 436	1.17	1.30 1.25	0.00
## 437	1.17	1.30 1.25	0.00
## 438	1.17	1.30 1.25	0.00
## 439	1.17	1.25 1.25	0.00
## 440	1.08	1.30 1.25	0.00
## 441	1.17	1.28 1.25	0.00
## 442	1.17	1.25 1.25	0.00
## 443	1.17	1.28 1.25	0.00
## 444	1.17	1.30 1.25	0.00
## 445	1.17	1.30 1.25	0.00
## 446	1.17	1.25 1.25	0.00
## 447	1.17	1.30 1.25	0.00
## 448	1.17	1.30 1.25	0.00
## 449	1.17	1.30 1.50	0.00
## 450	1.42	1.50 1.50	0.00
## 451	1.42	1.50 1.25	0.00
## 452	1.42	1.55 1.25	0.00
## 453	1.43	1.53 1.25	0.00
## 454	1.42	1.55 1.50	0.00
## 455	1.42	1.55 1.50	0.00
## 456	1.42	1.50 1.50	0.00
## 457	1.42	1.55 1.50	0.00
## 458	1.42	1.55 1.50	0.00

## 459	1.42	1.56 1.50	0.00
## 460	1.33	1.56 1.50	0.00
## 461	1.42	1.56 1.50	0.00
## 462	1.42	1.53 1.50	0.00
## 463	1.43	1.50 1.50	0.00
## 464	1.43	1.50 1.50	0.00
## 465	1.43	1.50 1.50	0.00
## 466	1.43	1.50 1.50	0.00
## 467	1.43	1.50 1.50	0.00
## 468	1.43	1.50 1.50	0.00
## 469	1.43	1.50 1.50	0.00
## 470	1.43	1.50 1.50	0.00
## 471	1.43	1.65 1.50	0.00
## 472	1.43	1.50 1.50	0.00
## 473	1.43	1.50 1.50	0.00
## 474	1.43	1.55 1.50	0.00
## 475	1.43	1.55 1.50	0.00
## 476	1.44	1.55 1.50	0.00
## 477	1.44	1.50 1.50	0.00
## 478	1.44	1.50 1.50	0.00
## 479	1.44	1.50 1.50	0.00
## 480	1.43	1.48 1.50	0.00
## 481	1.34	1.50 1.50	0.00
## 482	1.43	1.50 1.50	0.00
## 483	1.43	1.50 1.50	0.00
## 484	1.43	1.50 1.50	0.00
## 485	1.43	1.50 1.50	0.00
## 486	1.43	1.50 1.50	0.00
## 487	1.43	1.50 1.50	0.00
## 488	1.43	1.50 1.50	0.00
## 489	1.44	1.50 1.50	0.00
## 490	1.43	1.50 1.50	0.00
## 491	1.42	1.50 1.50	0.00
## 492	1.42	1.50 1.50	0.00
## 493	1.43	1.55 1.50	0.00
## 494	1.43	1.55 1.50	0.00
## 495	1.43	1.55 1.50	0.00
## 496	1.43	1.50 1.50	1.25
## 497	1.43	1.56 1.50	1.25
## 498	1.43	1.55 1.50	1.25
## 499	1.43	1.55 1.50	1.25
## 500	1.35	1.53 1.50	1.25
## 501	1.43	1.53 1.50	1.25
## 502	1.43	1.50 1.50	1.25
## 503	1.43	1.53 1.50	1.25
## 504	1.43	1.55 1.50	1.25
## 505	1.43	1.53 1.50	1.25
## 506	1.43	1.55 1.50	1.25
## 507	1.43	1.53 1.50	1.25
## 508	1.44	1.55 1.50	1.25
## 509	1.44	1.53 1.50	1.25
## 510	1.44	1.50 1.50	1.25
## 511	1.44	1.56 1.50	1.25
## 512	1.44	1.62 1.50	1.25



## 513	1.44	1.62 1.50	1.25
## 514	1.47	1.62 1.50	1.25
## 515	1.46	1.55 1.75	1.50
## 516	1.69	1.81 1.75	1.50
## 517	1.70	1.81 1.75	1.50
## 518	1.69	1.81 1.75	1.50
## 519	1.69	1.81 1.75	1.50
## 520	1.69	1.81 1.75	1.50
## 521	0.66	0.80 1.75	1.50
## 522	1.69	1.81 1.75	1.50
## 523	1.69	1.80 1.75	1.50
## 524	1.70	1.80 1.75	1.50
## 525	1.70	1.81 1.75	1.50
## 526	1.70	1.81 1.75	1.50
## 527	1.70	1.81 1.75	1.50
## 528	1.70	1.80 1.75	1.50
## 529	1.70	1.80 1.75	1.50
## 530	1.70	1.80 1.75	1.50
## 531	1.70	1.81 1.75	1.50
## 532	1.70	1.85 1.75	1.50
## 533	1.71	1.82 1.75	1.50
## 534	1.71	1.82 1.75	1.50
## 535	1.71	1.81 1.75	1.50
## 536	1.71	1.82 1.75	1.50
## 537	1.71	1.85 1.75	1.50
## 538	1.72	1.85 1.75	1.50
## 539	1.72	1.85 1.75	1.50
## 540	1.72	1.81 1.75	1.50
## 541	1.71	1.81 1.75	1.50
## 542	1.70	1.84 1.75	1.50
## 543	1.70	1.81 1.75	1.50
## 544	1.71	1.81 1.75	1.50
## 545	1.71	1.81 1.75	1.50
## 546	1.71	1.81 1.75	1.50
## 547	1.72	1.81 1.75	1.50
## 548	1.72	1.81 1.75	1.50
## 549	1.72	1.81 1.75	1.50
## 550	1.72	1.81 1.75	1.50
## 551	1.72	1.81 1.75	1.50
## 552	1.72	1.81 1.75	1.50
## 553	1.72	1.81 1.75	1.50
## 554	1.72	1.80 1.75	1.50
## 555	1.72	1.81 1.75	1.50
## 556	1.72	1.81 1.75	1.50
## 557	1.72	1.87 1.75	1.50
## 558	1.72	1.81 1.75	1.50
## 559	1.71	1.83 1.75	1.50
## 560	1.70	1.81 1.75	1.50
## 561	1.71	1.81 1.75	1.50
## 562	1.70	1.84 1.75	1.50
## 563	1.71	1.83 1.75	1.50
## 564	1.70	1.84 1.75	1.50
## 565	1.70	1.81 1.75	1.50
## 566	1.70	1.80 1.75	1.50

## 567	1.70	1.80 1.75	1.50
## 568	1.70	1.80 1.75	1.50
## 569	1.70	1.80 1.75	1.50
## 570	1.70	1.80 1.75	1.50
## 571	1.71	1.81 1.75	1.50
## 572	1.71	1.80 1.75	1.50
## 573	1.71	1.80 1.95	1.50
## 574	1.91	2.00 1.95	1.50
## 575	1.91	2.01 1.95	1.75
## 576	1.91	2.06 1.95	1.75
## 577	1.93	2.06 1.95	1.75
## 578	1.94	2.06 1.95	1.75
## 579	1.94	2.06 1.95	1.75
## 580	1.93	2.06 1.95	1.75
## 581	1.92	2.06 1.95	1.75
## 582	1.92	2.06 1.95	1.75
## 583	1.92	2.06 1.95	1.75
## 584	1.92	2.06 1.95	1.75
## 585	1.91	2.06 1.95	1.75
## 586	1.92	2.06 1.95	1.75
## 587	1.91	2.06 1.95	1.75
## 588	1.91	2.06 1.95	1.75
## 589	1.91	2.05 1.95	1.75
## 590	1.91	2.06 1.95	1.75
## 591	1.91	2.06 1.95	1.75
## 592	1.91	2.06 1.95	1.75
## 593	1.91	2.06 1.95	1.75
## 594	1.91	2.06 1.95	1.75
## 595	1.92	2.05 1.95	1.75
## 596	1.91	2.06 1.95	1.75
## 597	1.92	2.00 1.95	1.75
## 598	1.92	2.06 1.95	1.75
## 599	1.92	2.06 1.95	1.75
## 600	1.92	2.06 1.95	1.75
## 601	1.92	2.06 1.95	1.75
## 602	1.92	2.06 1.95	1.75
## 603	1.92	2.06 1.95	1.75
## 604	1.92	2.06 1.95	1.75
## 605	1.91	2.06 1.95	1.75
## 606	1.91	2.06 1.95	1.75
## 607	1.91	2.06 1.95	1.75
## 608	1.92	2.06 1.95	1.75
## 609	1.91	2.06 1.95	1.75
## 610	1.92	2.01 1.95	1.75
## 611	1.92	2.06 1.95	1.75
## 612	1.92	2.00 1.95	1.75
## 613	1.92	2.06 1.95	1.75
## 614	1.91	2.06 1.95	1.75
## 615	1.92	2.06 1.95	1.75
## 616	1.92	2.06 1.95	1.75
## 617	1.92	2.00 1.95	1.75
## 618	1.93	2.07 1.95	1.75
## 619	1.93	2.07 1.95	1.75
## 620	1.93	2.10 1.95	1.75

## 621	1.93	2.06 1.95	1.75
## 622	1.93	2.06 1.95	1.75
## 623	1.93	2.06 1.95	1.75
## 624	1.93	2.06 1.95	1.75
## 625	1.93	2.06 1.95	1.75
## 626	1.93	2.06 1.95	1.75
## 627	1.93	2.00 1.95	1.75
## 628	1.93	2.06 1.95	1.75
## 629	1.93	2.06 1.95	1.75
## 630	1.93	2.06 1.95	1.75
## 631	1.93	2.06 1.95	1.75
## 632	1.93	2.06 1.95	1.75
## 633	1.92	2.06 1.95	1.75
## 634	1.93	2.06 1.95	1.75
## 635	1.93	2.06 1.95	1.75
## 636	1.93	2.06 1.95	1.75
## 637	1.92	2.06 1.95	1.75
## 638	1.92	2.06 1.95	1.75
## 639	1.93	2.09 1.95	1.75
## 640	1.93	2.10 1.95	1.75
## 641	1.93	2.10 1.95	1.75
## 642	1.93	2.10 1.95	1.75
## 643	1.93	2.10 1.95	1.75
## 644	1.93	2.07 1.95	1.75
## 645	1.93	2.10 1.95	1.75
## 646	1.93	2.06 2.20	1.75
## 647	2.18	2.35 2.20	1.75
## 648	2.18	2.35 2.20	1.75
## 649	2.18	2.35 2.20	1.75
## 650	2.18	2.35 2.20	2.00
## 651	2.19	2.35 2.20	2.00
## 652	2.19	2.35 2.20	2.00
## 653	2.19	2.35 2.20	2.00
## 654	2.19	2.35 2.20	2.00
## 655	2.19	2.35 2.20	2.00
## 656	2.19	2.35 2.20	2.00
## 657	2.19	2.35 2.20	2.00
## 658	2.19	2.35 2.20	2.00
## 659	2.19	2.35 2.20	2.00
## 660	2.19	2.35 2.20	2.00
## 661	2.19	2.35 2.20	2.00
## 662	2.19	2.35 2.20	2.00
## 663	2.19	2.35 2.20	2.00
## 664	2.20	2.35 2.20	2.00
## 665	2.20	2.35 2.20	2.00
## 666	2.20	2.35 2.20	2.00
## 667	2.20	2.35 2.20	2.00
## 668	2.20	2.35 2.20	2.00
## 669	2.20	2.35 2.20	2.00
## 670	2.20	2.35 2.20	2.00
## 671	2.20	2.35 2.20	2.00
## 672	2.20	2.35 2.20	2.00
## 673	2.20	2.35 2.20	2.00
## 674	2.20	2.35 2.20	2.00

## 675	2.20	2.35 2.20	2.00
## 676	2.20	2.35 2.20	2.00
## 677	2.20	2.35 2.20	2.00
## 678	2.20	2.35 2.20	2.00
## 679	2.20	2.35 2.20	2.00
## 680	2.20	2.35 2.20	2.00
## 681	2.20	2.35 2.20	2.00
## 682	2.20	2.35 2.20	2.00
## 683	2.20	2.35 2.20	2.00
## 684	2.20	2.35 2.20	2.00
## 685	2.20	2.35 2.20	2.00
## 686	2.20	2.35 2.20	2.00
## 687	2.20	2.35 2.20	2.00
## 688	2.20	2.35 2.20	2.00
## 689	2.20	2.35 2.20	2.00
## 690	2.20	2.35 2.20	2.00
## 691	2.20	2.35 2.20	2.00
## 692	2.20	2.35 2.20	2.00
## 693	2.32	2.35 2.20	2.00
## 694	2.28	2.32 2.20	2.00
## 695	2.21	2.25 2.20	2.00
## 696	2.17	2.21 2.20	2.00
## 697	2.17	2.22 2.20	2.00
## 698	2.18	2.22 2.20	2.00
## 699	2.20	2.23 2.20	2.00
## 700	2.28	2.33 2.20	2.00
## 701	2.31	2.34 2.20	2.00
## 702	2.30	2.33 2.40	2.00
## 703	2.40	2.43 2.40	2.00
## 704	2.39	2.42 2.40	2.00
## 705	2.41	2.46 2.40	2.00
## 706	2.43	2.46 2.40	2.00
## 707	2.43	2.46 2.40	2.00
## 708	2.45	2.48 2.40	2.00
## 709	2.95	3.20 2.40	2.00
## 710	3.10	3.15 2.40	2.25
## 711	2.70	2.73 2.40	2.25
## 712	2.43	2.47 2.40	2.25
## 713	2.39	2.43 2.40	2.25
## 714	2.41	2.45 2.40	2.25
## 715	2.44	2.46 2.40	2.25
## 716	2.41	2.44 2.40	2.25
## 717	2.38	2.41 2.40	2.25
## 718	2.38	2.42 2.40	2.25
## 719	2.41	2.46 2.40	2.25
## 720	2.37	2.41 2.40	2.25
## 721	2.37	2.41 2.40	2.25
## 722	2.37	2.41 2.40	2.25
## 723	2.38	2.42 2.40	2.25
## 724	2.38	2.41 2.40	2.25
## 725	2.40	2.43 2.40	2.25
## 726	2.38	2.41 2.40	2.25
## 727	2.37	2.40 2.40	2.25
## 728	2.37	2.40 2.40	2.25

## 729	2.37	2.40 2.40	2.25
## 730	2.56	2.59 2.40	2.25
## 731	2.45	2.49 2.40	2.25
## 732	2.39	2.43 2.40	2.25
## 733	2.37	2.41 2.40	2.25
## 734	2.35	2.40 2.40	2.25
## 735	2.36	2.41 2.40	2.25
## 736	2.35	2.41 2.40	2.25
## 737	2.40	2.45 2.40	2.25
## 738	2.36	2.41 2.40	2.25
## 739	2.36	2.41 2.40	2.25
## 740	2.37	2.42 2.40	2.25
## 741	2.42	2.44 2.40	2.25
## 742	2.38	2.41 2.40	2.25
## 743	2.38	2.41 2.40	2.25
## 744	2.37	2.41 2.40	2.25
## 745	2.37	2.41 2.40	2.25
## 746	2.37	2.41 2.40	2.25
## 747	2.37	2.41 2.40	2.25
## 748	2.37	2.40 2.40	2.25
## 749	2.58	2.60 2.40	2.25
## 750	2.37	2.41 2.40	2.25
## 751	2.37	2.41 2.40	2.25
## 752	2.36	2.40 2.40	2.25
## 753	2.36	2.40 2.40	2.25
## 754	2.37	2.41 2.40	2.25
## 755	2.36	2.40 2.40	2.25
## 756	2.36	2.41 2.40	2.25
## 757	2.37	2.41 2.40	2.25
## 758	2.38	2.42 2.40	2.25
## 759	2.39	2.42 2.40	2.25
## 760	2.43	2.46 2.40	2.25
## 761	2.38	2.43 2.40	2.25
## 762	2.40	2.48 2.40	2.25
## 763	2.46	2.49 2.40	2.25
## 764	2.43	2.47 2.40	2.25
## 765	2.38	2.42 2.40	2.25
## 766	2.37	2.41 2.40	2.25
## 767	2.37	2.43 2.40	2.25
## 768	2.38	2.43 2.40	2.25
## 769	2.42	2.46 2.40	2.25
## 770	2.60	2.95 2.40	2.25
## 771	2.42	2.53 2.40	2.25
## 772	2.43	2.48 2.40	2.25
## 773	2.43	2.47 2.40	2.25
## 774	2.43	2.47 2.40	2.25
## 775	2.44	2.47 2.40	2.25
## 776	2.43	2.47 2.40	2.25
## 777	2.43	2.47 2.40	2.25
## 778	2.42	2.47 2.40	2.25
## 779	2.41	2.46 2.40	2.25
## 780	2.40	2.47 2.40	2.25
## 781	2.43	2.48 2.40	2.25
## 782	2.43	2.55 2.40	2.25

## 783	2.47	2.51 2.40	2.25
## 784	2.46	2.50 2.40	2.25
## 785	2.52	2.59 2.40	2.25
## 786	2.53	2.59 2.40	2.25
## 787	2.49	2.56 2.40	2.25
## 788	2.50	2.57 2.40	2.25
## 789	2.53	2.60 2.40	2.25
## 790	2.55	2.62 2.40	2.25
## 791	2.87	3.06 2.40	2.25
## 792	2.60	2.65 2.40	2.25
## 793	2.57	2.63 2.35	2.25
## 794	2.50	2.56 2.35	2.25
## 795	2.48	2.54 2.35	2.25
## 796	2.50	2.55 2.35	2.25
## 797	2.48	2.54 2.35	2.25
## 798	2.46	2.52 2.35	2.25
## 799	2.44	2.50 2.35	2.25
## 800	2.43	2.49 2.35	2.25
## 801	2.45	2.51 2.35	2.25
## 802	2.54	2.60 2.35	2.25
## 803	2.49	2.54 2.35	2.25
## 804	2.47	2.52 2.35	2.25
## 805	2.44	2.50 2.35	2.25
## 806	2.44	2.50 2.35	2.25
## 807	2.43	2.49 2.35	2.25
## 808	2.43	2.49 2.35	2.25
## 809	2.43	2.49 2.35	2.25
## 810	2.47	2.53 2.35	2.25
## 811	2.47	2.53 2.35	2.25
## 812	2.46	2.54 2.35	2.25
## 813	0.00	2.49 2.35	2.25
## 814	2.45	2.52 2.35	2.25
## 815	2.45	2.50 2.35	2.25
## 816	2.45	2.50 2.35	2.25
## 817	2.46	2.51 2.35	2.25
## 818	2.45	2.51 2.35	2.25
## 819	2.45	2.50 2.35	2.25
## 820	2.44	2.50 2.35	2.25
## 821	2.43	2.50 2.35	2.25
## 822	2.42	2.49 2.35	2.25
## 823	2.39	2.45 2.35	2.25
## 824	2.47	2.53 2.35	2.25
## 825	2.44	2.51 2.35	2.25
## 826	2.42	2.49 2.35	2.25
## 827	2.41	2.48 2.35	2.25
## 828	2.43	2.50 2.35	2.25
## 829	2.46	2.52 2.35	2.25
## 830	2.48	2.54 2.35	2.25
## 831	2.50	2.57 2.35	2.25
## 832	2.48	2.57 2.35	2.25
## 833	2.65	3.03 2.35	2.25
## 834	2.47	3.85 2.35	2.25
## 835	2.58	3.10 2.35	2.25
## 836	2.65	2.75 2.35	2.25

## 837	2.68	2.76 2.35	2.25
## 838	2.54	2.60 2.35	2.25
## 839	2.53	2.60 2.35	2.25
## 840	2.52	2.59 2.35	2.25
## 841	2.47	2.55 2.35	2.25
## 842	2.42	2.53 2.35	2.25
## 843	2.52	2.60 2.35	2.25
## 844	2.53	2.60 2.35	2.25
## 845	2.54	2.62 2.35	2.25
## 846	2.52	2.62 2.35	2.25
## 847	2.48	2.55 2.35	2.25
## 848	2.47	2.53 2.35	2.25
## 849	2.47	2.53 2.35	2.25
## 850	2.48	2.56 2.35	2.25
## 851	2.50	2.57 2.35	2.25
## 852	2.48	2.56 2.35	2.25
## 853	2.47	2.54 2.35	2.25
## 854	2.46	2.53 2.35	2.25
## 855	2.63	2.78 2.35	2.25
## 856	2.27	2.33 2.10	2.25
## 857	2.25	2.33 2.10	2.25
## 858	2.20	2.28 2.10	2.25
## 859	2.18	2.25 2.10	2.25
## 860	2.16	2.23 2.10	2.25
## 861	2.15	2.25 2.10	2.25
## 862	2.18	2.25 2.10	2.25
## 863	2.19	2.26 2.10	2.25
## 864	2.24	2.32 2.10	2.25
## 865	2.20	2.27 2.10	2.25
## 866	2.26	2.34 2.10	2.25
## 867	2.20	2.27 2.10	2.25
## 868	2.17	2.24 2.10	2.25
## 869	2.19	2.26 2.10	2.25
## 870	2.16	2.24 2.10	2.00
## 871	2.16	2.22 2.10	2.00
## 872	2.16	2.22 2.10	2.00
## 873	2.17	2.23 2.10	2.00
## 874	2.22	2.30 2.10	2.00
## 875	2.19	2.26 2.10	2.00
## 876	2.19	2.26 2.10	2.00
## 877	2.23	2.33 2.10	2.00
## 878	2.25	2.40 2.10	2.00
## 879	2.29	2.39 2.10	2.00
## 880	2.28	2.35 2.10	2.00
## 881	2.23	2.30 2.10	2.00
## 882	2.19	2.27 2.10	2.00
## 883	2.22	2.28 2.10	2.00
## 884	2.23	2.30 2.10	2.00
## 885	2.28	2.35 2.10	2.00
## 886	2.27	2.40 2.10	2.00
## 887	2.55	4.60 2.10	2.00
## 888	5.85	9.00 2.10	2.00
## 889	3.00	5.00 2.10	2.00
## 890	2.05	2.50 1.80	2.00

## 891	1.90	2.08 1.80	2.00
## 892	1.91	2.10 1.80	2.00
## 893	2.02	2.10 1.80	2.00
## 894	2.10	2.23 1.80	2.00
## 895	1.90	2.03 1.80	2.00
## 896	1.88	1.96 1.80	2.00
## 897	2.50	3.20 1.80	2.00
## 898	1.96	2.05 1.80	2.00
## 899	1.90	1.98 1.80	2.00
## 900	1.89	1.96 1.80	2.00
## 901	1.88	1.94 1.80	2.00
## 902	1.89	1.95 1.80	2.00
## 903	1.91	1.98 1.80	2.00
## 904	1.90	1.97 1.80	2.00
## 905	1.91	1.98 1.80	1.70
## 906	1.90	1.97 1.80	1.70
## 907	2.07	2.40 1.80	1.70
## 908	2.11	2.20 1.80	1.70
## 909	2.01	2.10 1.80	1.70
## 910	1.95	2.02 1.80	1.70
## 911	1.92	1.99 1.80	1.70
## 912	1.94	2.01 1.80	1.70
## 913	1.92	2.01 1.80	1.70
## 914	1.93	2.02 1.80	1.70
## 915	1.90	1.97 1.80	1.70
## 916	1.88	1.96 1.80	1.70
## 917	1.86	1.94 1.80	1.70
## 918	1.88	1.95 1.80	1.70
## 919	1.85	2.02 1.55	1.70
## 920	1.63	1.70 1.55	1.70
## 921	1.62	1.69 1.55	1.70
## 922	1.63	1.70 1.55	1.70
## 923	1.61	1.69 1.55	1.70
## 924	1.62	1.69 1.55	1.70
## 925	1.61	1.68 1.55	1.70
## 926	1.63	1.70 1.55	1.70
## 927	1.63	1.70 1.55	1.70
## 928	1.64	1.71 1.55	1.70
## 929	1.63	1.70 1.55	1.70
## 930	1.61	1.68 1.55	1.70
## 931	1.63	1.68 1.55	1.70
## 932	1.63	1.69 1.55	1.70
## 933	1.64	1.70 1.55	1.70
## 934	1.64	1.70 1.55	1.70
## 935	1.62	1.69 1.55	1.45
## 936	1.59	1.68 1.55	1.45
## 937	1.59	1.66 1.55	1.45
## 938	1.70	1.80 1.55	1.45
## 939	1.68	1.75 1.55	1.45
## 940	1.59	1.66 1.55	1.45
## 941	1.59	1.65 1.55	1.45
## 942	1.60	1.66 1.55	1.45
## 943	1.60	1.67 1.55	1.45
## 944	1.61	1.67 1.55	1.45



## 945	1.59	1.66 1.55	1.45
## 946	1.58	1.65 1.55	1.45
## 947	1.57	1.65 1.55	1.45
## 948	1.58	1.66 1.55	1.45
## 949	1.67	1.74 1.55	1.45
## 950	1.59	1.64 1.55	1.45
## 951	1.58	1.65 1.55	1.45
## 952	1.58	1.65 1.55	1.45
## 953	1.57	1.64 1.55	1.45
## 954	1.57	1.64 1.55	1.45
## 955	1.57	1.64 1.55	1.45
## 956	1.57	1.64 1.55	1.45
## 957	1.58	1.64 1.55	1.45
## 958	1.60	1.67 1.55	1.45
## 959	1.66	2.00 1.55	1.45
## 960	1.60	1.65 1.55	1.45
## 961	1.60	1.66 1.55	1.45
## 962	1.60	1.66 1.55	1.45
## 963	1.61	1.67 1.55	1.45
## 964	1.59	1.66 1.55	1.45
## 965	1.59	1.66 1.55	1.45
## 966	1.59	1.65 1.55	1.45
## 967	1.58	1.65 1.55	1.45
## 968	1.59	1.65 1.55	1.45
## 969	1.60	1.66 1.55	1.45
## 970	1.58	1.64 1.55	1.45
## 971	1.58	1.64 1.55	1.45
## 972	1.57	1.64 1.55	1.45
## 973	1.57	1.64 1.55	1.45
## 974	1.57	1.63 1.55	1.45
## 975	1.57	1.63 1.55	1.45
## 976	1.57	1.63 1.55	1.45
## 977	1.57	1.63 1.55	1.45
## 978	1.57	1.63 1.55	1.45
## 979	1.62	1.68 1.60	1.45
## 980	1.65	1.72 1.60	1.45
## 981	1.64	1.71 1.60	1.45
## 982	1.65	1.72 1.60	1.45
## 983	1.64	1.71 1.60	1.45
## 984	1.64	1.70 1.60	1.45
## 985	1.63	1.69 1.60	1.45
## 986	1.62	1.69 1.60	1.45
## 987	1.62	1.70 1.60	1.45
## 988	1.62	1.68 1.60	1.45
## 989	1.62	1.68 1.60	1.45
## 990	1.63	1.69 1.60	1.45
## 991	1.65	1.71 1.60	1.45
## 992	1.64	1.70 1.60	1.45
## 993	1.65	1.71 1.60	1.45
## 994	1.62	1.69 1.60	1.45
## 995	1.62	1.69 1.60	1.45
## 996	1.63	1.70 1.60	1.45
## 997	1.63	1.70 1.60	1.45
## 998	1.63	1.70 1.60	1.45

## 999	1.65	1.72 1.60	1.45
## 1000	1.64	1.76 1.60	1.50
## 1001	1.71	1.81 1.60	1.50
## 1002	1.28	1.37 1.10	1.50
## 1003	1.17	1.25 1.10	1.50
## 1004	1.15	1.22 1.10	1.50
## 1005	1.14	1.22 1.10	1.50
## 1006	1.17	1.23 1.10	1.50
## 1007	1.20	1.28 1.10	1.50
## 1008	1.25	1.42 1.10	1.50
## 1009	1.15	1.22 1.10	1.50
## 1010	0.35	2.00 0.10	1.50
## 1011	0.74	1.00 0.10	1.50
## 1012	0.16	0.42 0.10	1.50
## 1013	0.11	0.27 0.10	1.50
## 1014	0.07	0.18 0.10	1.50
## 1015	0.04	0.20 0.10	1.50
## 1016	0.03	0.20 0.10	1.50
## 1017	0.02	0.22 0.10	1.50
## 1018	0.02	0.23 0.10	1.50
## 1019	0.01	0.20 0.10	1.50
## 1020	0.01	0.18 0.10	1.50
## 1021	0.01	0.17 0.10	1.50
## 1022	0.03	0.17 0.10	1.50
## 1023	0.03	0.17 0.10	1.50
## 1024	0.02	0.16 0.10	1.00
## 1025	0.02	0.15 0.10	1.00
## 1026	0.02	0.16 0.10	1.00
## 1027	0.03	0.16 0.10	1.00
## 1028	0.05	0.16 0.10	1.00
## 1029	0.06	0.60 0.10	1.00
## 1030	0.05	0.50 0.10	1.00
## 1031	0.06	0.55 0.10	1.00
## 1032	0.05	0.50 0.10	0.00
## 1033	0.05	0.50 0.10	0.00
## 1034	0.05	0.42 0.10	0.00
## 1035	0.05	0.42 0.10	0.00
## 1036	0.05	0.50 0.10	0.00
## 1037	0.05	0.50 0.10	0.00
## 1038	0.05	0.45 0.10	0.00
## 1039	0.05	0.30 0.10	0.00
## 1040	0.05	0.40 0.10	0.00
## 1041	0.05	0.35 0.10	0.00
## 1042	0.05	0.30 0.10	0.00
## 1043	0.05	0.30 0.10	0.00
## 1044	0.05	0.40 0.10	0.00
## 1045	0.05	0.30 0.10	0.00
## 1046	0.05	0.30 0.10	0.00
## 1047	0.05	0.27 0.10	0.00
## 1048	0.05	0.30 0.10	0.00
## 1049	0.05	0.25 0.10	0.00
## 1050	0.05	0.23 0.10	0.00
## 1051	0.05	0.20 0.10	0.00
## 1052	0.05	0.20 0.10	0.00

## 1053	0.05	0.20 0.10	0.00
## 1054	0.05	0.20 0.10	0.00
## 1055	0.05	0.25 0.10	0.00
## 1056	0.05	0.20 0.10	0.00
## 1057	0.05	0.23 0.10	0.00
## 1058	0.05	0.20 0.10	0.00
## 1059	0.05	0.20 0.10	0.00
## 1060	0.06	0.20 0.10	0.00
## 1061	0.06	0.18 0.10	0.00
## 1062	0.06	0.20 0.10	0.00
## 1063	0.06	0.20 0.10	0.00
## 1064	0.06	0.18 0.10	0.00
## 1065	0.06	0.18 0.10	0.00
## 1066	0.06	0.18 0.10	0.00
## 1067	0.07	0.18 0.10	0.00
## 1068	0.07	0.16 0.10	0.00
## 1069	0.08	0.18 0.10	0.00
## 1070	0.08	0.18 0.10	0.00
## 1071	0.08	0.18 0.10	0.00
## 1072	0.08	0.18 0.10	0.00
## 1073	0.08	0.18 0.10	0.00
## 1074	0.09	0.18 0.10	0.00
## 1075	0.09	0.19 0.10	0.00
## 1076	0.09	0.19 0.10	0.00
## 1077	0.09	0.19 0.10	0.00
## 1078	0.09	0.18 0.10	0.00
## 1079	0.09	0.15 0.10	0.00
## 1080	0.09	0.18 0.10	0.00
## 1081	0.09	0.18 0.10	0.00
## 1082	0.09	0.18 0.10	0.00
## 1083	0.09	0.18 0.10	0.00
## 1084	0.09	0.18 0.10	0.00
## 1085	0.09	0.19 0.10	0.00
## 1086	0.09	0.18 0.10	0.00
## 1087	0.09	0.14 0.10	0.00
## 1088	0.09	0.15 0.10	0.00
## 1089	0.09	0.15 0.10	0.00
## 1090	0.08	0.14 0.10	0.00
## 1091	0.08	0.15 0.10	0.00
## 1092	0.08	0.15 0.10	0.00
## 1093	0.08	0.15 0.10	0.00
## 1094	0.09	0.15 0.10	0.00
## 1095	0.11	0.17 0.10	0.00
## 1096	0.09	0.14 0.10	0.00
## 1097	0.09	0.15 0.10	0.00
## 1098	0.09	0.14 0.10	0.00
## 1099	0.09	0.14 0.10	0.00
## 1100	0.08	0.14 0.10	0.00
## 1101	0.08	0.13 0.10	0.00
## 1102	0.08	0.14 0.10	0.00
## 1103	0.08	0.14 0.10	0.00
## 1104	0.08	0.14 0.10	0.00
## 1105	0.07	0.14 0.10	0.00
## 1106	0.07	0.12 0.10	0.00

## 1107	0.08	0.14 0.10	0.00
## 1108	0.08	0.13 0.10	0.00
## 1109	0.07	0.13 0.10	0.00
## 1110	0.07	0.13 0.10	0.00
## 1111	0.07	0.13 0.10	0.00
## 1112	0.07	0.13 0.10	0.00
## 1113	0.07	0.13 0.10	0.00
## 1114	0.07	0.14 0.10	0.00
## 1115	0.07	0.13 0.10	0.00
## 1116	0.07	0.13 0.10	0.00
## 1117	0.07	0.13 0.10	0.00
## 1118	0.07	0.14 0.10	0.00
## 1119	0.07	0.12 0.10	0.00
## 1120	0.07	0.12 0.10	0.00
## 1121	0.05	0.12 0.10	0.00
## 1122	0.05	0.12 0.10	0.00
## 1123	0.06	0.11 0.10	0.00
## 1124	0.06	0.12 0.10	0.00
## 1125	0.06	0.11 0.10	0.00
## 1126	0.05	0.11 0.10	0.00
## 1127	0.05	0.11 0.10	0.00
## 1128	0.07	0.13 0.10	0.00
## 1129	0.06	0.14 0.10	0.00
## 1130	0.06	0.13 0.10	0.00
## 1131	0.07	0.14 0.10	0.00
## 1132	0.07	0.13 0.10	0.00
## 1133	0.07	0.13 0.10	0.00
## 1134	0.07	0.13 0.10	0.00
## 1135	0.07	0.13 0.10	0.00
## 1136	0.07	0.13 0.10	0.00
## 1137	0.07	0.12 0.10	0.00
## 1138	0.08	0.13 0.10	0.00
## 1139	0.07	0.13 0.10	0.00
## 1140	0.07	0.13 0.10	0.00
## 1141	0.07	0.10 0.10	0.00
## 1142	0.06	0.12 0.10	0.00
## 1143	0.05	0.09 0.10	0.00
## 1144	0.04	0.08 0.10	0.00
## 1145	0.04	0.12 0.10	0.00
## 1146	0.06	0.12 0.10	0.00
## 1147	0.06	0.12 0.10	0.00
## 1148	0.05	0.11 0.10	0.00
## 1149	0.06	0.12 0.10	0.00
## 1150	0.05	0.13 0.10	0.00
## 1151	0.06	0.14 0.10	0.00
## 1152	0.07	0.13 0.10	0.00
## 1153	0.07	0.13 0.10	0.00
## 1154	0.07	0.12 0.10	0.00
## 1155	0.06	0.13 0.10	0.00
## 1156	0.06	0.15 0.10	0.00
## 1157	0.07	0.13 0.10	0.00
## 1158	0.06	0.12 0.10	0.00
## 1159	0.07	0.14 0.10	0.00
## 1160	0.06	0.12 0.10	0.00

## 1161	0.06	0.13 0.10	0.00
## 1162	0.06	0.12 0.10	0.00
## 1163	0.05	0.10 0.10	0.00
## 1164	0.05	0.11 0.10	0.00
## 1165	0.06	0.12 0.10	0.00
## 1166	0.06	0.13 0.10	0.00
## 1167	0.07	0.13 0.10	0.00
## 1168	0.06	0.12 0.10	0.00
## 1169	0.06	0.13 0.10	0.00
## 1170	0.07	0.13 0.10	0.00
## 1171	0.07	0.13 0.10	0.00
## 1172	0.07	0.14 0.10	0.00
## 1173	0.08	0.13 0.10	0.00
## 1174	0.08	0.14 0.10	0.00
## 1175	0.08	0.13 0.10	0.00
## 1176	0.08	0.13 0.10	0.00
## 1177	0.07	0.13 0.10	0.00
## 1178	0.07	0.12 0.10	0.00
## 1179	0.07	0.12 0.10	0.00
## 1180	0.08	0.13 0.10	0.00
## 1181	0.07	0.12 0.10	0.00
## 1182	0.05	0.11 0.10	0.00
## 1183	0.04	0.09 0.10	0.00
## 1184	0.04	0.08 0.10	0.00
## 1185	0.04	0.07 0.10	0.00
## 1186	0.05	0.12 0.10	0.00
## 1187	0.06	0.12 0.10	0.00
## 1188	0.07	0.12 0.10	0.00
## 1189	0.08	0.12 0.10	0.00
## 1190	0.06	0.15 0.10	0.00
## 1191	0.06	0.15 0.10	0.00
## 1192	0.06	0.15 0.10	0.00
## 1193	0.07	0.15 0.10	0.00
## 1194	0.07	0.15 0.10	0.00
## 1195	0.06	0.15 0.10	0.00
## 1196	0.06	0.15 0.10	0.00
## 1197	0.06	0.15 0.10	0.00
## 1198	0.06	0.15 0.10	0.00
## 1199	0.06	0.15 0.10	0.00
## 1200	0.07	0.15 0.10	0.00
## 1201	0.07	0.15 0.10	0.00
## 1202	0.07	0.15 0.10	0.00
## 1203	0.07	0.15 0.10	0.00
## 1204	0.07	0.15 0.10	0.00
## 1205	0.06	0.15 0.10	0.00
## 1206	0.05	0.15 0.10	0.00
## 1207	0.06	0.15 0.10	0.00
## 1208	0.07	0.15 0.10	0.00
## 1209	0.08	0.15 0.10	0.00
## 1210	0.08	0.15 0.10	0.00
## 1211	0.06	0.15 0.10	0.00
## 1212	0.07	0.15 0.10	0.00
## 1213	0.08	0.15 0.10	0.00
## 1214	0.08	0.15 0.10	0.00

## 1215	0.08	0.15 0.10	0.00
## 1216	0.07	0.15 0.10	0.00
## 1217	0.07	0.15 0.10	0.00
## 1218	0.07	0.15 0.10	0.00
## 1219	0.06	0.15 0.10	0.00
## 1220	0.05	0.15 0.10	0.00
## 1221	0.06	0.15 0.10	0.00
## 1222	0.05	0.15 0.10	0.00
## 1223	0.04	0.15 0.10	0.00
## 1224	0.02	0.15 0.10	0.00
## 1225	0.04	0.15 0.10	0.00
## 1226	0.05	0.15 0.10	0.00
## 1227	0.02	0.15 0.10	0.00
## 1228	0.02	0.15 0.10	0.00
## 1229	0.03	0.15 0.10	0.00
## 1230	0.04	0.15 0.10	0.00
## 1231	0.06	0.15 0.10	0.00
## 1232	0.06	0.15 0.10	0.00
## 1233	0.06	0.15 0.10	0.00
## 1234	0.04	0.15 0.10	0.00
## 1235	0.01	0.15 0.10	0.00
## 1236	0.01	0.15 0.10	0.00
## 1237	0.04	0.15 0.10	0.00
## 1238	0.05	0.15 0.10	0.00
## 1239	0.04	0.15 0.10	0.00
## 1240	0.03	0.15 0.10	0.00
## 1241	0.05	0.15 0.10	0.00
## 1242	0.05	0.15 0.10	0.00
## 1243	0.03	0.15 0.10	0.00
## 1244	0.02	0.15 0.10	0.00
## 1245	0.02	0.15 0.10	0.00
## 1246	0.01	0.15 0.10	0.00
## 1247	0.01	0.15 0.10	0.00
## 1248	0.02	0.15 0.10	0.00
## 1249	0.01	0.15 0.10	0.00
## 1250	0.01	0.15 0.10	0.00
## 1251	0.02	0.15 0.10	0.00
## 1252	0.03	0.15 0.10	0.00
## 1253	0.01	0.15 0.10	0.00
## 1254	0.01	0.15 0.10	0.00
## 1255	0.01	0.15 0.10	0.00
## 1256	0.01	0.15 0.10	0.00
## 1257	0.01	0.15 0.10	0.00
## 1258	0.01	0.15 0.10	0.00
## 1259	0.01	0.15 0.10	0.00
## 1260	0.01	0.15 0.10	0.00
## 1261	0.01	0.15 0.10	0.00
## 1262	0.01	0.15 0.10	0.00
## 1263	0.01	0.15 0.10	0.00
## 1264	0.01	0.15 0.10	0.00
## 1265	0.01	0.15 0.10	0.00
## 1266	0.01	0.15 0.10	0.00
## 1267	0.01	0.15 0.10	0.00
## 1268	0.01	0.15 0.10	0.00

## 1269	0.01	0.15 0.10	0.00
## 1270	0.01	0.15 0.10	0.00
## 1271	0.01	0.15 0.10	0.00
## 1272	0.01	0.15 0.10	0.00
## 1273	0.01	0.15 0.10	0.00
## 1274	0.08	0.10 0.10	0.00
## 1275	0.08	0.10 0.10	0.00
## 1276	0.08	0.10 0.10	0.00
## 1277	0.08	0.10 0.10	0.00
## 1278	0.08	0.10 0.10	0.00
## 1279	0.08	0.10 0.10	0.00
## 1280	0.08	0.10 0.10	0.00
## 1281	0.08	0.10 0.10	0.00
## 1282	0.08	0.10 0.10	0.00
## 1283	0.08	0.10 0.10	0.00
## 1284	0.08	0.10 0.10	0.00
## 1285	0.08	0.10 0.10	0.00
## 1286	0.08	0.10 0.10	0.00
## 1287	0.08	0.10 0.10	0.00
## 1288	0.08	0.10 0.10	0.00
## 1289	0.08	0.10 0.10	0.00
## 1290	0.07	0.10 0.10	0.00
## 1291	0.08	0.10 0.10	0.00
## 1292	0.08	0.10 0.10	0.00
## 1293	0.08	0.10 0.10	0.00
## 1294	0.07	0.10 0.10	0.00
## 1295	0.07	0.13 0.10	0.00
## 1296	0.07	0.10 0.10	0.00
## 1297	0.07	0.13 0.10	0.00
## 1298	0.07	0.10 0.10	0.00
## 1299	0.07	0.10 0.10	0.00
## 1300	0.07	0.10 0.10	0.00
## 1301	0.07	0.10 0.10	0.00
## 1302	0.07	0.10 0.10	0.00
## 1303	0.07	0.10 0.10	0.00
## 1304	0.07	0.10 0.10	0.00
## 1305	0.07	0.10 0.10	0.00
## 1306	0.07	0.10 0.10	0.00
## 1307	0.07	0.10 0.10	0.00
## 1308	0.07	0.10 0.10	0.00
## 1309	0.07	0.10 0.10	0.00
## 1310	0.07	0.10 0.10	0.00
## 1311	0.07	0.11 0.10	0.00
## 1312	0.07	0.12 0.10	0.00
## 1313	0.07	0.10 0.10	0.00
## 1314	0.07	0.12 0.10	0.00
## 1315	0.07	0.14 0.10	0.00
## 1316	0.07	0.10 0.10	0.00
## 1317	0.07	0.10 0.10	0.00
## 1318	0.07	0.10 0.10	0.00
## 1319	0.06	0.10 0.10	0.00
## 1320	0.07	0.10 0.10	0.00
## 1321	0.07	0.10 0.10	0.00
## 1322	0.07	0.10 0.10	0.00

## 1323	0.07	0.10 0.10	0.00
## 1324	0.07	0.10 0.10	0.00
## 1325	0.07	0.10 0.10	0.00
## 1326	0.07	0.10 0.15	0.00
## 1327	0.10	0.11 0.15	0.00
## 1328	0.10	0.11 0.15	0.00
## 1329	0.10	0.11 0.15	0.00
## 1330	0.10	0.11 0.15	0.00
## 1331	0.10	0.11 0.15	0.00
## 1332	0.10	0.11 0.15	0.00
## 1333	0.10	0.11 0.15	0.00
## 1334	0.10	0.11 0.15	0.00
## 1335	0.10	0.11 0.15	0.00
## 1336	0.10	0.11 0.15	0.00
## 1337	0.10	0.11 0.15	0.00
## 1338	0.10	0.11 0.15	0.00
## 1339	0.10	0.11 0.15	0.00
## 1340	0.10	0.11 0.15	0.00
## 1341	0.10	0.11 0.15	0.00
## 1342	0.10	0.11 0.15	0.00
## 1343	0.10	0.11 0.15	0.00
## 1344	0.10	0.11 0.15	0.00
## 1345	0.10	0.11 0.15	0.00
## 1346	0.10	0.11 0.15	0.00
## 1347	0.10	0.11 0.15	0.00
## 1348	0.10	0.11 0.15	0.00
## 1349	0.10	0.11 0.15	0.00
## 1350	0.10	0.11 0.15	0.00
## 1351	0.10	0.11 0.15	0.00
## 1352	0.10	0.11 0.15	0.00
## 1353	0.10	0.11 0.15	0.00
## 1354	0.10	0.11 0.15	0.00
## 1355	0.10	0.11 0.15	0.00
## 1356	0.10	0.11 0.15	0.00
## 1357	0.08	0.11 0.15	0.00
## 1358	0.10	0.11 0.15	0.00
## 1359	0.10	0.11 0.15	0.00
## 1360	0.10	0.11 0.15	0.05
## 1361	0.10	0.11 0.15	0.05
## 1362	0.10	0.11 0.15	0.05
## 1363	0.10	0.11 0.15	0.05
## 1364	0.10	0.11 0.15	0.05
## 1365	0.10	0.11 0.15	0.05
## 1366	0.10	0.11 0.15	0.05
## 1367	0.10	0.11 0.15	0.05
## 1368	0.10	0.11 0.15	0.05
## 1369	0.10	0.11 0.15	0.05
## 1370	0.10	0.11 0.15	0.05
## 1371	0.10	0.11 0.15	0.05
## 1372	0.10	0.11 0.15	0.05
## 1373	0.10	0.11 0.15	0.05
## 1374	0.09	0.10 0.15	0.05
## 1375	0.09	0.10 0.15	0.05
## 1376	0.09	0.10 0.15	0.05



## 1377	0.09	0.11 0.15	0.05
## 1378	0.09	0.10 0.15	0.05
## 1379	0.08	0.10 0.15	0.05
## 1380	0.08	0.10 0.15	0.05
## 1381	0.08	0.11 0.15	0.05
## 1382	0.08	0.10 0.15	0.05
## 1383	0.08	0.10 0.15	0.05
## 1384	0.08	0.10 0.15	0.05
## 1385	0.08	0.09 0.15	0.05
## 1386	0.08	0.09 0.15	0.05
## 1387	0.08	0.09 0.15	0.05
## 1388	0.08	0.09 0.15	0.05
## 1389	0.08	0.09 0.15	0.05
## 1390	0.08	0.09 0.15	0.05
## 1391	0.08	0.10 0.15	0.05
## 1392	0.08	0.10 0.15	0.05
## 1393	0.08	0.09 0.15	0.05
## 1394	0.08	0.10 0.15	0.05
## 1395	0.08	0.10 0.15	0.05
## 1396	0.08	0.09 0.15	0.05
## 1397	0.08	0.09 0.15	0.05
## 1398	0.08	0.09 0.15	0.05
## 1399	0.08	0.09 0.15	0.05
## 1400	0.07	0.09 0.15	0.05
## 1401	0.08	0.10 0.15	0.05
## 1402	0.08	0.10 0.15	0.05
## 1403	0.08	0.09 0.15	0.05
## 1404	0.08	0.09 0.15	0.05
## 1405	0.08	0.09 0.15	0.05
## 1406	0.08	0.09 0.15	0.05
## 1407	0.08	0.09 0.15	0.05
## 1408	0.08	0.09 0.15	0.05
## 1409	0.08	0.09 0.15	0.05
## 1410	0.08	0.09 0.15	0.05
## 1411	0.08	0.09 0.15	0.05
## 1412	0.08	0.10 0.15	0.05
## 1413	0.09	0.15 0.15	0.05
## 1414	0.08	0.12 0.15	0.05
## 1415	0.08	0.10 0.15	0.05
## 1416	0.08	0.10 0.15	0.05
## 1417	0.08	0.10 0.15	0.05
## 1418	0.09	0.10 0.15	0.05
## 1419	0.08	0.11 0.15	0.05
## 1420	0.08	0.15 0.15	0.05
## 1421	0.08	0.12 0.15	0.05
## 1422	0.08	0.10 0.15	0.05
## 1423	0.08	0.09 0.15	0.05
## 1424	0.08	0.10 0.15	0.05
## 1425	0.08	0.10 0.15	0.05
## 1426	0.08	0.10 0.15	0.05
## 1427	0.08	0.10 0.15	0.05
## 1428	0.09	0.09 0.15	0.05
## 1429	0.08	0.09 0.15	0.05
## 1430	0.08	0.09 0.15	0.05

## 1431	0.08	0.09 0.15	0.05
## 1432	0.09	0.09 0.15	0.05
## 1433	0.08	0.10 0.15	0.05
## 1434	0.08	0.10 0.15	0.05
## 1435	0.08	0.12 0.15	0.05
## 1436	0.09	0.12 0.15	0.05
## 1437	0.08	0.12 0.15	0.05
## 1438	0.08	0.11 0.15	0.05
## 1439	0.09	0.12 0.15	0.05
## 1440	0.08	0.12 0.15	0.05
## 1441	0.09	0.12 0.15	0.05
## 1442	0.09	0.17 0.15	0.05
## 1443	0.09	0.17 0.15	0.05
## 1444	0.09	0.20 0.15	0.05
## 1445	0.09	0.20 0.15	0.05
## 1446	0.09	0.17 0.15	0.05
## 1447	0.09	0.20 0.15	0.05
## 1448	0.09	0.17 0.15	0.05
## 1449	0.09	0.20 0.15	0.05
## 1450	0.08	0.11 0.15	0.05
## 1451	0.08	0.10 0.15	0.05
## 1452	0.08	0.10 0.15	0.05
## 1453	0.08	0.20 0.15	0.05
## 1454	0.08	0.20 0.15	0.05
## 1455	0.08	0.20 0.15	0.05
## 1456	0.08	0.20 0.15	0.05
## 1457	0.09	0.20 0.15	0.05
## 1458	0.05	0.15 0.15	0.05
## 1459	0.05	0.15 0.15	0.05
## 1460	0.05	0.15 0.15	0.05
## 1461	0.05	0.15 0.15	0.05
## 1462	0.05	0.15 0.15	0.05
## 1463	0.05	0.15 0.15	0.05
## 1464	0.05	0.15 0.15	0.05
## 1465	0.05	0.15 0.15	0.05
## 1466	0.05	0.15 0.15	0.05
## 1467	0.05	0.15 0.15	0.05
## 1468	0.05	0.15 0.15	0.05
## 1469	0.05	0.15 0.15	0.05
## 1470	0.05	0.15 0.15	0.05
## 1471	0.05	0.15 0.15	0.05
## 1472	0.05	0.15 0.15	0.05
## 1473	0.05	0.15 0.15	0.05
## 1474	0.05	0.15 0.15	0.05
## 1475	0.05	0.15 0.15	0.05
## 1476	0.05	0.15 0.15	0.05
## 1477	0.05	0.15 0.15	0.05
## 1478	0.05	0.15 0.15	0.05
## 1479	0.05	0.15 0.15	0.05
## 1480	0.05	0.15 0.15	0.05
## 1481	0.05	0.15 0.15	0.05
## 1482	0.05	0.15 0.15	0.05
## 1483	0.05	0.15 0.15	0.05
## 1484	0.05	0.15 0.15	0.05

## 1485	0.05	0.15 0.15	0.05
## 1486	0.05	0.15 0.15	0.05
## 1487	0.05	0.15 0.15	0.05
## 1488	0.05	0.15 0.15	0.05
## 1489	0.05	0.15 0.15	0.05
## 1490	0.05	0.15 0.15	0.05
## 1491	0.05	0.15 0.15	0.05
## 1492	0.05	0.15 0.15	0.05
## 1493	0.05	0.15 0.15	0.05
## 1494	0.05	0.15 0.15	0.05
## 1495	0.05	0.15 0.15	0.05
## 1496	0.05	0.15 0.15	0.05
## 1497	0.05	0.15 0.15	0.05
## 1498	0.05	0.15 0.15	0.05
## 1499	0.05	0.15 0.15	0.05
## 1500	0.05	0.15 0.15	0.05
## 1501	0.05	0.15 0.15	0.05
## 1502	0.05	0.15 0.15	0.05
## 1503	0.05	0.15 0.15	0.05
## 1504	0.05	0.15 0.15	0.05
## 1505	0.05	0.15 0.15	0.05
## 1506	0.05	0.15 0.15	0.05
## 1507	0.05	0.15 0.15	0.05
## 1508	0.05	0.15 0.15	0.05
## 1509	0.05	0.15 0.15	0.05
## 1510	0.05	0.15 0.15	0.05
## 1511	0.05	0.15 0.15	0.05
## 1512	0.05	0.15 0.15	0.05
## 1513	0.05	0.15 0.40	0.05
## 1514	0.30	0.45 0.40	0.05
## 1515	0.30	0.45 0.40	0.05
## 1516	0.30	0.45 0.40	0.05
## 1517	0.30	0.45 0.40	0.05
## 1518	0.30	0.45 0.40	0.05
## 1519	0.30	0.45 0.40	0.05
## 1520	0.30	0.45 0.40	0.05
## 1521	0.30	0.45 0.40	0.05
## 1522	0.30	0.45 0.40	0.05
## 1523	0.30	0.45 0.40	0.05
## 1524	0.30	0.45 0.40	0.05
## 1525	0.30	0.45 0.40	0.05
## 1526	0.30	0.45 0.40	0.05
## 1527	0.30	0.45 0.40	0.05
## 1528	0.30	0.45 0.40	0.05
## 1529	0.30	0.45 0.40	0.05
## 1530	0.30	0.45 0.40	0.05
## 1531	0.30	0.45 0.40	0.05
## 1532	0.30	0.45 0.40	0.05
## 1533	0.30	0.45 0.40	0.05
## 1534	0.30	0.45 0.40	0.05
## 1535	0.30	0.45 0.40	0.05
## 1536	0.30	0.45 0.40	0.05
## 1537	0.30	0.45 0.40	0.05
## 1538	0.30	0.45 0.40	0.05

## 1539	0.30	0.45 0.40	0.05
## 1540	0.30	0.45 0.40	0.05
## 1541	0.30	0.45 0.40	0.05
## 1542	0.30	0.45 0.40	0.05
## 1543	0.30	0.45 0.40	0.05
## 1544	0.30	0.45 0.40	0.05
## 1545	0.30	0.45 0.40	0.05
## 1546	0.30	0.45 0.40	0.05
## 1547	0.30	0.45 0.40	0.05
## 1548	0.80	0.86 0.90	0.05
## 1549	0.80	0.95 0.90	0.05
## 1550	0.80	0.95 0.90	0.05
## 1551	0.80	0.95 0.90	0.05
## 1552	0.80	0.95 0.90	0.05
## 1553	0.80	0.95 0.90	0.05
## 1554	0.80	0.95 0.90	0.05
## 1555	0.81	0.87 0.90	0.30
## 1556	0.81	0.95 0.90	0.30
## 1557	0.80	0.95 0.90	0.30
## 1558	0.80	0.95 0.90	0.30
## 1559	0.80	0.95 0.90	0.30
## 1560	0.80	0.95 0.90	0.30
## 1561	0.80	0.95 0.90	0.30
## 1562	0.80	0.95 0.90	0.30
## 1563	0.80	0.95 0.90	0.30
## 1564	0.80	0.95 0.90	0.30
## 1565	0.80	0.87 0.90	0.30
## 1566	0.80	0.95 0.90	0.30
## 1567	0.80	0.95 0.90	0.30
## 1568	0.80	0.95 0.90	0.30
## 1569	0.80	0.95 0.90	0.30
## 1570	0.80	0.95 0.90	0.30
## 1571	0.80	0.95 0.90	0.30
## 1572	0.80	0.95 0.90	0.30
## 1573	0.79	0.95 0.90	0.30
## 1574	0.78	0.95 0.90	0.30
## 1575	0.75	0.95 0.90	0.30
## 1576	0.75	0.95 0.90	0.30
## 1577	1.49	1.70 1.65	0.30
## 1578	1.49	1.70 1.65	0.30
## 1579	1.48	1.70 1.65	0.30
## 1580	1.49	1.70 1.65	0.30
## 1581	1.48	1.70 1.65	0.30
## 1582	1.50	1.70 1.65	0.30
## 1583	1.54	1.70 1.65	0.30
## 1584	1.55	1.70 1.65	0.30
## 1585	1.54	1.70 1.65	0.30
## 1586	1.53	1.62 1.65	0.30
## 1587	1.55	1.70 1.65	0.30
## 1588	1.55	1.65 1.65	0.30
## 1589	1.55	1.70 1.65	0.30
## 1590	1.55	1.70 1.65	0.80
## 1591	1.55	1.70 1.65	0.80
## 1592	1.55	1.70 1.65	0.80

## 1593	1.55	1.70 1.65	0.80
## 1594	1.55	1.70 1.65	0.80
## 1595	1.55	1.70 1.65	0.80
## 1596	1.55	1.70 1.65	0.80
## 1597	1.55	1.70 1.65	0.80
## 1598	1.55	1.70 1.65	0.80
## 1599	1.55	1.70 1.65	0.80
## 1600	1.55	1.70 1.65	0.80
## 1601	1.54	1.70 1.65	0.80
## 1602	1.55	1.70 1.65	0.80
## 1603	1.55	1.70 1.65	0.80
## 1604	1.55	1.70 1.65	0.80
## 1605	2.30	2.45 2.40	0.80
## 1606	2.29	2.45 2.40	0.80
## 1607	2.30	2.38 2.40	0.80
## 1608	2.32	2.37 2.40	0.80
## 1609	2.31	2.45 2.40	0.80
## 1610	2.30	2.45 2.40	0.80
## 1611	2.30	2.45 2.40	0.80
## 1612	2.30	2.45 2.40	0.80
## 1613	2.30	2.45 2.40	0.80
## 1614	2.30	2.45 2.40	0.80
## 1615	2.30	2.45 2.40	0.80
## 1616	2.30	2.45 2.40	0.80
## 1617	2.31	2.45 2.40	0.80
## 1618	2.31	2.45 2.40	0.80
## 1619	2.30	2.45 2.40	0.80
## 1620	2.30	2.45 2.40	1.55
## 1621	2.30	2.45 2.40	1.55
## 1622	2.30	2.37 2.40	1.55
## 1623	2.30	2.45 2.40	1.55
## 1624	2.30	2.45 2.40	1.55
## 1625	2.30	2.45 2.40	1.55
## 1626	2.30	2.45 2.40	1.55
## 1627	2.30	2.45 2.40	1.55
## 1628	2.30	2.45 2.40	1.55
## 1629	2.31	2.45 2.40	1.55
## 1630	2.31	2.45 2.40	1.55
## 1631	2.31	2.45 2.40	1.55
## 1632	2.30	2.45 2.40	1.55
## 1633	2.30	2.45 2.40	1.55
## 1634	2.30	2.45 2.40	1.55
## 1635	2.30	2.45 2.40	1.55
## 1636	2.30	2.45 2.40	1.55
## 1637	2.30	2.45 2.40	1.55
## 1638	2.30	2.45 2.40	1.55
## 1639	2.30	2.45 2.40	1.55
## 1640	2.30	2.45 2.40	1.55
## 1641	2.30	2.45 2.40	1.55
## 1642	2.28	2.45 2.40	1.55
## 1643	2.27	2.45 2.40	1.55
## 1644	3.01	3.13 3.15	1.55
## 1645	3.01	3.20 3.15	1.55
## 1646	3.00	3.20 3.15	1.55

## 1647	3.00	3.20 3.15	1.55
## 1648	3.00	3.20 3.15	1.55
## 1649	2.99	3.20 3.15	1.55
## 1650	3.03	3.20 3.15	2.30
## 1651	3.05	3.20 3.15	2.30
## 1652	3.06	3.20 3.15	2.30
## 1653	3.06	3.20 3.15	2.30
## 1654	3.07	3.20 3.15	2.30
## 1655	3.06	3.20 3.15	2.30
## 1656	3.07	3.20 3.15	2.30
## 1657	3.06	3.20 3.15	2.30
## 1658	3.06	3.20 3.15	2.30
## 1659	3.05	3.20 3.15	2.30
## 1660	3.06	3.20 3.15	2.30
## 1661	3.06	3.20 3.15	2.30
## 1662	3.05	3.20 3.15	2.30
## 1663	3.05	3.20 3.15	2.30
## 1664	3.04	3.20 3.15	2.30
## 1665	3.04	3.20 3.15	2.30
## 1666	3.05	3.20 3.15	2.30
## 1667	3.05	3.20 3.15	2.30
## 1668	3.06	3.20 3.15	2.30
## 1669	3.06	3.20 3.15	2.30
## 1670	3.07	3.20 3.15	2.30
## 1671	3.08	3.13 3.15	2.30
## 1672	3.08	3.20 3.15	2.30
## 1673	3.83	3.89 3.90	2.30
## 1674	3.82	3.95 3.90	2.30
## 1675	3.81	3.95 3.90	2.30
## 1676	3.80	3.95 3.90	2.30
## 1677	3.80	3.95 3.90	2.30
## 1678	3.80	3.95 3.90	2.30
## 1679	3.81	3.95 3.90	2.30
## 1680	3.85	3.95 3.90	2.30
## 1681	3.85	3.92 3.90	2.30
## 1682	3.84	3.90 3.90	2.30
## 1683	3.83	3.92 3.90	2.30
## 1684	3.82	3.89 3.90	2.30
## 1685	3.82	3.95 3.90	2.30
## 1686	3.81	3.95 3.90	2.30
## 1687	3.82	3.93 3.90	2.30
## 1688	3.84	3.90 3.90	2.30
## 1689	3.85	3.95 3.90	2.30
## 1690	3.87	3.94 3.90	3.05
## 1691	3.86	3.92 3.90	3.05
## 1692	3.86	3.94 3.90	3.05
## 1693	3.85	3.94 3.90	3.05
## 1694	3.84	3.93 3.90	3.05
## 1695	3.81	3.91 3.90	3.05
## 1696	3.81	3.91 3.90	3.05
## 1697	3.83	3.91 3.90	3.05
## 1698	3.83	3.91 3.90	3.05
## 1699	3.83	3.92 3.90	3.05
## 1700	3.84	3.92 3.90	3.05

```
## 1701      4.37      4.45 3.90      3.05
## 1702      4.36      4.45 3.90      3.05
## 1703      4.34      4.42 3.90      3.05
## 1704      4.32      4.44 3.90      3.05
## 1705      4.30      4.44 3.90      3.05
## 1706      4.31      4.44 3.90      3.05
## 1707      4.31      4.38 3.90      3.05
## 1708      4.32      4.40 3.90      3.05
## 1709      4.32      4.45 3.90      3.05
## 1710      4.32      4.45 3.90      3.05
```

```
rrbp<- select(spread,EFFR,OBFR,TGCR,BGCR,SOFR);
rrbp<-rrbp*100;
```

```
sdate<-as.Date(spread$Time,"%m/%d/%Y");
```

```
target<- select(spread,TargetDe,TargetUe);
target %>% replace(is.na(.),0)
```

```
##      TargetDe TargetUe
## 1      0.00      0.00
## 2      0.00      0.00
## 3      0.00      0.00
## 4      0.00      0.00
## 5      0.00      0.00
## 6      0.00      0.00
## 7      0.00      0.00
## 8      0.00      0.00
## 9      0.00      0.00
## 10     0.00      0.00
## 11     0.00      0.00
## 12     0.00      0.00
## 13     0.00      0.00
## 14     0.00      0.00
## 15     0.00      0.00
## 16     0.00      0.00
## 17     0.00      0.00
## 18     0.00      0.00
## 19     0.00      0.00
## 20     0.00      0.00
## 21     0.00      0.00
## 22     0.00      0.00
## 23     0.00      0.00
## 24     0.00      0.00
## 25     0.00      0.00
## 26     0.00      0.00
## 27     0.00      0.00
## 28     0.00      0.00
## 29     0.00      0.00
## 30     0.00      0.00
## 31     0.00      0.00
## 32     0.00      0.00
## 33     0.00      0.00
```

## 34	0.00	0.00
## 35	0.00	0.00
## 36	0.00	0.00
## 37	0.00	0.00
## 38	0.00	0.00
## 39	0.00	0.00
## 40	0.00	0.00
## 41	0.00	0.00
## 42	0.00	0.00
## 43	0.00	0.00
## 44	0.00	0.00
## 45	0.00	0.00
## 46	0.00	0.00
## 47	0.00	0.00
## 48	0.00	0.00
## 49	0.00	0.00
## 50	0.00	0.00
## 51	0.00	0.00
## 52	0.00	0.00
## 53	0.00	0.00
## 54	0.00	0.00
## 55	0.00	0.00
## 56	0.00	0.00
## 57	0.00	0.00
## 58	0.00	0.00
## 59	0.00	0.00
## 60	0.00	0.00
## 61	0.00	0.00
## 62	0.00	0.00
## 63	0.00	0.00
## 64	0.00	0.00
## 65	0.00	0.00
## 66	0.00	0.00
## 67	0.00	0.00
## 68	0.00	0.00
## 69	0.00	0.00
## 70	0.00	0.00
## 71	0.00	0.00
## 72	0.00	0.00
## 73	0.00	0.00
## 74	0.00	0.00
## 75	0.00	0.00
## 76	0.00	0.00
## 77	0.00	0.00
## 78	0.00	0.00
## 79	0.00	0.00
## 80	0.00	0.00
## 81	0.00	0.00
## 82	0.00	0.00
## 83	0.00	0.00
## 84	0.00	0.00
## 85	0.00	0.00
## 86	0.00	0.00
## 87	0.00	0.00



## 88	0.00	0.00
## 89	0.00	0.00
## 90	0.00	0.00
## 91	0.00	0.00
## 92	0.00	0.00
## 93	0.00	0.00
## 94	0.00	0.00
## 95	0.00	0.00
## 96	0.00	0.00
## 97	0.00	0.00
## 98	0.00	0.00
## 99	0.00	0.00
## 100	0.00	0.00
## 101	0.00	0.00
## 102	0.00	0.00
## 103	0.00	0.00
## 104	0.00	0.00
## 105	0.00	0.00
## 106	0.00	0.00
## 107	0.00	0.00
## 108	0.00	0.00
## 109	0.00	0.00
## 110	0.00	0.00
## 111	0.00	0.00
## 112	0.00	0.00
## 113	0.00	0.00
## 114	0.00	0.00
## 115	0.00	0.00
## 116	0.00	0.00
## 117	0.00	0.00
## 118	0.00	0.00
## 119	0.00	0.00
## 120	0.00	0.00
## 121	0.00	0.00
## 122	0.00	0.00
## 123	0.00	0.00
## 124	0.00	0.00
## 125	0.00	0.00
## 126	0.00	0.00
## 127	0.00	0.00
## 128	0.00	0.00
## 129	0.00	0.00
## 130	0.00	0.00
## 131	0.00	0.00
## 132	0.00	0.00
## 133	0.00	0.00
## 134	0.00	0.00
## 135	0.00	0.00
## 136	0.00	0.00
## 137	0.00	0.00
## 138	0.00	0.00
## 139	0.00	0.00
## 140	0.00	0.00
## 141	0.00	0.00

## 142	0.00	0.00
## 143	0.00	0.00
## 144	0.00	0.00
## 145	0.00	0.00
## 146	0.00	0.00
## 147	0.00	0.00
## 148	0.00	0.00
## 149	0.00	0.00
## 150	0.00	0.00
## 151	0.00	0.00
## 152	0.00	0.00
## 153	0.00	0.00
## 154	0.00	0.00
## 155	0.00	0.00
## 156	0.00	0.00
## 157	0.00	0.00
## 158	0.00	0.00
## 159	0.00	0.00
## 160	0.00	0.00
## 161	0.00	0.00
## 162	0.00	0.00
## 163	0.00	0.00
## 164	0.00	0.00
## 165	0.00	0.00
## 166	0.00	0.00
## 167	0.00	0.00
## 168	0.00	0.00
## 169	0.00	0.00
## 170	0.00	0.00
## 171	0.00	0.00
## 172	0.00	0.00
## 173	0.00	0.00
## 174	0.00	0.00
## 175	0.00	0.00
## 176	0.00	0.00
## 177	0.00	0.00
## 178	0.00	0.00
## 179	0.00	0.00
## 180	0.00	0.00
## 181	0.00	0.00
## 182	0.00	0.00
## 183	0.00	0.00
## 184	0.00	0.00
## 185	0.00	0.00
## 186	0.00	0.00
## 187	0.00	0.00
## 188	0.00	0.00
## 189	0.00	0.00
## 190	0.00	0.00
## 191	0.00	0.00
## 192	0.00	0.00
## 193	0.00	0.00
## 194	0.00	0.00
## 195	0.00	0.00

## 196	0.00	0.00
## 197	0.00	0.00
## 198	0.00	0.00
## 199	0.00	0.00
## 200	0.00	0.00
## 201	0.00	0.00
## 202	0.00	0.00
## 203	0.00	0.00
## 204	0.00	0.00
## 205	0.00	0.00
## 206	0.00	0.00
## 207	0.00	0.00
## 208	0.00	0.00
## 209	0.00	0.00
## 210	0.00	0.00
## 211	0.00	0.00
## 212	0.00	0.00
## 213	0.00	0.00
## 214	0.00	0.00
## 215	0.00	0.00
## 216	0.00	0.00
## 217	0.00	0.00
## 218	0.00	0.00
## 219	0.00	0.00
## 220	0.00	0.00
## 221	0.00	0.00
## 222	0.00	0.00
## 223	0.00	0.00
## 224	0.00	0.00
## 225	0.00	0.00
## 226	0.00	0.00
## 227	0.00	0.00
## 228	0.00	0.00
## 229	0.00	0.00
## 230	0.00	0.00
## 231	0.00	0.00
## 232	0.00	0.00
## 233	0.00	0.00
## 234	0.00	0.00
## 235	0.00	0.00
## 236	0.00	0.00
## 237	0.00	0.00
## 238	0.00	0.00
## 239	0.00	0.00
## 240	0.00	0.00
## 241	0.00	0.00
## 242	0.00	0.00
## 243	0.00	0.00
## 244	0.00	0.00
## 245	0.00	0.00
## 246	0.00	0.00
## 247	0.00	0.00
## 248	0.00	0.00
## 249	0.00	0.00

## 250	0.00	0.00
## 251	0.00	0.00
## 252	0.00	0.00
## 253	0.00	0.00
## 254	0.00	0.00
## 255	0.00	0.00
## 256	0.00	0.00
## 257	0.00	0.00
## 258	0.00	0.00
## 259	0.00	0.00
## 260	0.00	0.00
## 261	0.00	0.00
## 262	0.00	0.00
## 263	0.00	0.00
## 264	0.00	0.00
## 265	0.00	0.00
## 266	0.00	0.00
## 267	0.00	0.00
## 268	0.00	0.00
## 269	0.00	0.00
## 270	0.00	0.00
## 271	0.00	0.00
## 272	0.00	0.00
## 273	0.00	0.00
## 274	0.00	0.00
## 275	0.00	0.00
## 276	0.00	0.00
## 277	0.00	0.00
## 278	0.00	0.00
## 279	0.00	0.00
## 280	0.00	0.00
## 281	0.00	0.00
## 282	0.00	0.00
## 283	0.00	0.00
## 284	0.00	0.00
## 285	0.00	0.00
## 286	0.00	0.00
## 287	0.00	0.00
## 288	0.00	0.00
## 289	0.00	0.00
## 290	0.00	0.00
## 291	0.00	0.00
## 292	0.00	0.00
## 293	0.00	0.00
## 294	0.00	0.00
## 295	0.00	0.00
## 296	0.00	0.00
## 297	0.00	0.00
## 298	0.00	0.00
## 299	0.00	0.00
## 300	0.00	0.00
## 301	0.00	0.00
## 302	0.00	0.00
## 303	0.00	0.00

## 304	0.00	0.00
## 305	0.00	0.00
## 306	0.00	0.00
## 307	0.00	0.00
## 308	0.00	0.00
## 309	0.00	0.00
## 310	0.00	0.00
## 311	0.00	0.00
## 312	0.00	0.00
## 313	0.00	0.00
## 314	0.00	0.00
## 315	0.00	0.00
## 316	0.00	0.00
## 317	0.00	0.00
## 318	0.00	0.00
## 319	0.00	0.00
## 320	0.00	0.00
## 321	0.00	0.00
## 322	0.00	0.00
## 323	0.00	0.00
## 324	0.00	0.00
## 325	0.00	0.00
## 326	0.00	0.00
## 327	0.00	0.00
## 328	0.00	0.00
## 329	0.00	0.00
## 330	0.00	0.00
## 331	0.00	0.00
## 332	0.00	0.00
## 333	0.00	0.00
## 334	0.00	0.00
## 335	0.00	0.00
## 336	0.00	0.00
## 337	0.00	0.00
## 338	0.00	0.00
## 339	0.00	0.00
## 340	0.00	0.00
## 341	0.00	0.00
## 342	0.00	0.00
## 343	0.00	0.00
## 344	0.00	0.00
## 345	0.00	0.00
## 346	0.00	0.00
## 347	0.00	0.00
## 348	0.00	0.00
## 349	0.00	0.00
## 350	0.00	0.00
## 351	0.00	0.00
## 352	0.00	0.00
## 353	0.00	0.00
## 354	0.00	0.00
## 355	0.00	0.00
## 356	0.00	0.00
## 357	0.00	0.00

## 358	0.00	0.00
## 359	0.00	0.00
## 360	0.00	0.00
## 361	0.00	0.00
## 362	0.00	0.00
## 363	0.00	0.00
## 364	0.00	0.00
## 365	0.00	0.00
## 366	0.00	0.00
## 367	0.00	0.00
## 368	0.00	0.00
## 369	0.00	0.00
## 370	0.00	0.00
## 371	0.00	0.00
## 372	0.00	0.00
## 373	0.00	0.00
## 374	0.00	0.00
## 375	0.00	0.00
## 376	0.00	0.00
## 377	0.00	0.00
## 378	0.00	0.00
## 379	0.00	0.00
## 380	0.00	0.00
## 381	0.00	0.00
## 382	0.00	0.00
## 383	0.00	0.00
## 384	0.00	0.00
## 385	0.00	0.00
## 386	0.00	0.00
## 387	0.00	0.00
## 388	0.00	0.00
## 389	0.00	0.00
## 390	0.00	0.00
## 391	0.00	0.00
## 392	0.00	0.00
## 393	0.00	0.00
## 394	0.00	0.00
## 395	0.00	0.00
## 396	0.00	0.00
## 397	0.00	0.00
## 398	0.00	0.00
## 399	0.00	0.00
## 400	0.00	0.00
## 401	0.00	0.00
## 402	0.00	0.00
## 403	0.00	0.00
## 404	0.00	0.00
## 405	0.00	0.00
## 406	0.00	0.00
## 407	0.00	0.00
## 408	0.00	0.00
## 409	0.00	0.00
## 410	0.00	0.00
## 411	0.00	0.00

## 412	0.00	0.00
## 413	0.00	0.00
## 414	0.00	0.00
## 415	0.00	0.00
## 416	0.00	0.00
## 417	0.00	0.00
## 418	0.00	0.00
## 419	0.00	0.00
## 420	0.00	0.00
## 421	0.00	0.00
## 422	0.00	0.00
## 423	0.00	0.00
## 424	0.00	0.00
## 425	0.00	0.00
## 426	0.00	0.00
## 427	0.00	0.00
## 428	0.00	0.00
## 429	0.00	0.00
## 430	0.00	0.00
## 431	0.00	0.00
## 432	0.00	0.00
## 433	0.00	0.00
## 434	0.00	0.00
## 435	0.00	0.00
## 436	0.00	0.00
## 437	0.00	0.00
## 438	0.00	0.00
## 439	0.00	0.00
## 440	0.00	0.00
## 441	0.00	0.00
## 442	0.00	0.00
## 443	0.00	0.00
## 444	0.00	0.00
## 445	0.00	0.00
## 446	0.00	0.00
## 447	0.00	0.00
## 448	0.00	0.00
## 449	0.00	0.00
## 450	0.00	0.00
## 451	0.00	0.00
## 452	0.00	0.00
## 453	0.00	0.00
## 454	0.00	0.00
## 455	0.00	0.00
## 456	0.00	0.00
## 457	0.00	0.00
## 458	0.00	0.00
## 459	0.00	0.00
## 460	0.00	0.00
## 461	0.00	0.00
## 462	0.00	0.00
## 463	0.00	0.00
## 464	0.00	0.00
## 465	0.00	0.00

## 466	0.00	0.00
## 467	0.00	0.00
## 468	0.00	0.00
## 469	0.00	0.00
## 470	0.00	0.00
## 471	0.00	0.00
## 472	0.00	0.00
## 473	0.00	0.00
## 474	0.00	0.00
## 475	0.00	0.00
## 476	0.00	0.00
## 477	0.00	0.00
## 478	0.00	0.00
## 479	0.00	0.00
## 480	0.00	0.00
## 481	0.00	0.00
## 482	0.00	0.00
## 483	0.00	0.00
## 484	0.00	0.00
## 485	0.00	0.00
## 486	0.00	0.00
## 487	0.00	0.00
## 488	0.00	0.00
## 489	0.00	0.00
## 490	0.00	0.00
## 491	0.00	0.00
## 492	0.00	0.00
## 493	0.00	0.00
## 494	0.00	0.00
## 495	0.00	0.00
## 496	0.00	0.00
## 497	0.00	0.00
## 498	0.00	0.00
## 499	0.00	0.00
## 500	0.00	0.00
## 501	0.00	0.00
## 502	0.00	0.00
## 503	0.00	0.00
## 504	0.00	0.00
## 505	0.00	0.00
## 506	0.00	0.00
## 507	0.00	0.00
## 508	0.00	0.00
## 509	0.00	0.00
## 510	0.00	0.00
## 511	0.00	0.00
## 512	0.00	0.00
## 513	0.00	0.00
## 514	0.00	0.00
## 515	0.00	0.00
## 516	0.00	0.00
## 517	0.00	0.00
## 518	0.00	0.00
## 519	0.00	0.00



## 520	1.50	1.75
## 521	1.50	1.75
## 522	1.50	1.75
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## 524	1.50	1.75
## 525	1.50	1.75
## 526	1.50	1.75
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## 1183	0.00	0.25
## 1184	0.00	0.25
## 1185	0.00	0.25
## 1186	0.00	0.25
## 1187	0.00	0.25
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## 1189	0.00	0.25
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## 1196	0.00	0.25
## 1197	0.00	0.25
## 1198	0.00	0.25
## 1199	0.00	0.25
## 1200	0.00	0.25
## 1201	0.00	0.25
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## 1250	0.00	0.25
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## 1255	0.00	0.25
## 1256	0.00	0.25
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## 1498	0.00	0.25
## 1499	0.00	0.25
## 1500	0.00	0.25
## 1501	0.00	0.25
## 1502	0.00	0.25
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## 1546	0.25	0.50
## 1547	0.25	0.50
## 1548	0.75	1.00
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## 1582	1.50	1.75
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## 1585	1.50	1.75
## 1586	1.50	1.75
## 1587	1.50	1.75
## 1588	1.50	1.75
## 1589	1.50	1.75
## 1590	1.50	1.75
## 1591	1.50	1.75
## 1592	1.50	1.75
## 1593	1.50	1.75
## 1594	1.50	1.75
## 1595	1.50	1.75
## 1596	1.50	1.75
## 1597	1.50	1.75
## 1598	1.50	1.75
## 1599	1.50	1.75

## 1600	1.50	1.75
## 1601	1.50	1.75
## 1602	1.50	1.75
## 1603	1.50	1.75
## 1604	1.50	1.75
## 1605	2.25	2.50
## 1606	2.25	2.50
## 1607	2.25	2.50
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## 1609	2.25	2.50
## 1610	2.25	2.50
## 1611	2.25	2.50
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## 1630	2.25	2.50
## 1631	2.25	2.50
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## 1636	2.25	2.50
## 1637	2.25	2.50
## 1638	2.25	2.50
## 1639	2.25	2.50
## 1640	2.25	2.50
## 1641	2.25	2.50
## 1642	2.25	2.50
## 1643	2.25	2.50
## 1644	3.00	3.25
## 1645	3.00	3.25
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## 1671	3.00	3.25
## 1672	3.00	3.25
## 1673	3.75	4.00
## 1674	3.75	4.00
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## 1696	3.75	4.00
## 1697	3.75	4.00
## 1698	3.75	4.00
## 1699	3.75	4.00
## 1700	3.75	4.00
## 1701	4.25	4.50
## 1702	4.25	4.50
## 1703	4.25	4.50
## 1704	4.25	4.50
## 1705	4.25	4.50
## 1706	4.25	4.50
## 1707	4.25	4.50

```
## 1708      4.25      4.50
## 1709      4.25      4.50
## 1710      4.25      4.50
```

```
targetbp<-target*100;
```

```
rrbp_zoo <- zoo(rrbp);
rrbp2 <- rollapply(rrbp_zoo, width = 2, FUN = mean, na.rm = TRUE, align = "right");
rrbp5 <- rollapply(rrbp_zoo, width = 5, FUN = mean, na.rm = TRUE, align = "right");
rrbp10 <- rollapply(rrbp_zoo, width = 10, FUN = mean, na.rm = TRUE, align = "right");
```

```
normalcy <-rrbp %>% slice(1:856);
adjust <-rrbp %>% slice(857:920);
covid <-rrbp %>% slice(921:1029)
zlb <-rrbp %>% slice(1030:1513);
inflation <-rrbp %>% slice(1514:1710);
normalcy_zoo <- zoo(normalcy);
  adjust_zoo <- zoo( adjust);
  covid_zoo <- zoo(covid);
  zlb_zoo <- zoo(zlb);
  inflation_zoo <- zoo(inflation);

normalcy2 <- rollapply(normalcy_zoo, width = 2, FUN = mean, na.rm = TRUE, align = "right");
normalcy5 <- rollapply(normalcy_zoo, width = 5, FUN = mean, na.rm = TRUE, align = "right");
normalcy10 <- rollapply(normalcy_zoo, width = 10, FUN = mean, na.rm = TRUE, align = "right");
```

```
metrics <- c("constant","Mean","Median","Variance","Skew","Kurtosis","row7");
metricE<-select(spread,EFFR,TargetDe,TargetUe,PercentileE25,PercentileE75);
metricE$EFFR<-metricE$EFFR*100;
metricE$TargetUe<-metricE$TargetUe*100;
metricE$TargetDe<-metricE$TargetDe*100;
metricE$PercentileE25<-metricE$PercentileE25*100;
metricE$PercentileE75<-metricE$PercentileE75*100;

moments_rrbp <- all.moments(rrbp, order.max=6);
momentsrrbp<-as.data.frame(moments_rrbp,row.names=c('constant','mean','variance','skew','kurtosis','r6'
rownames(momentsrrbp) <- metrics;
# Create a sample data frame with named columns
momentsrrbp$EFFR <- momentsrrbp$ V1;
momentsrrbp$OBFR <- momentsrrbp$ V2;
momentsrrbp$TGCR <- momentsrrbp$ V3;
momentsrrbp$BGCR <- momentsrrbp$ V4;
momentsrrbp$SQFR <- momentsrrbp$ V5;
momentsrrbp <- momentsrrbp[, -(1:5)];
str(momentsrrbp)
```

```
## 'data.frame':      7 obs. of  4 variables:
## $ EFFR: num  1.00 1.08e+02 2.14e+04 5.09e+06 1.38e+09 ...
## $ OBFR: num  1.00 1.05e+02 2.09e+04 5.02e+06 1.38e+09 ...
## $ TGCR: num  1.00 1.04e+02 2.06e+04 4.94e+06 1.34e+09 ...
## $ BGCR: num  1.00 1.06e+02 2.09e+04 4.98e+06 1.35e+09 ...
```

```

rrbptable <- xtable(momentsrrbp);

moments_normalcy <- all.moments(normalcy, order.max=6);
momentsnorm<-as.data.frame(moments_normalcy,row.names=c('constant','mean','variance','skew','kurtosis',
momentsnorm$EFFR <- momentsnorm$ V1;
momentsnorm$OBFR <- momentsnorm$ V2;
momentsnorm$TGCR <- momentsnorm$ V3;
momentsnorm$BGCR <- momentsnorm$ V4;
momentsnorm$SOFR <- momentsnorm$ V5;
momentsnorm <- momentsnorm[, -(1:5)];
str(momentsnorm)

```

```

## 'data.frame':    7 obs. of  5 variables:
## $ EFFR: num  1.00 1.34e+02 2.35e+04 4.68e+06 9.98e+08 ...
## $ OBFR: num  1.00 1.28e+02 2.25e+04 4.57e+06 9.87e+08 ...
## $ TGCR: num  1.00 1.28e+02 2.24e+04 4.52e+06 9.69e+08 ...
## $ BGCR: num  1.00 1.30e+02 2.29e+04 4.61e+06 9.86e+08 ...
## $ SOFR: num  1.00 1.34e+02 2.36e+04 4.73e+06 1.01e+09 ...

```

```

normtable <- xtable(momentsnorm)

metrics <- c("constant","Mean","Median","Variance","Skew","Kurtosis","row7");
rownames(momentsnorm) <- metrics;

moments_adjust<- all.moments(adjust, order.max=6);

momentsadjust<-as.data.frame(moments_adjust,row.names=c('constant','mean','variance','skew','kurtosis',
rownames(momentsadjust) <- metrics;
momentsadjust$EFFR <- momentsadjust$ V1;
momentsadjust$OBFR <- momentsadjust$ V2;
momentsadjust$TGCR <- momentsadjust$ V3;
momentsadjust$BGCR <- momentsadjust$ V4;
momentsadjust$SOFR <- momentsadjust$ V5;
momentsadjust <- momentsadjust[, -(1:5)];
str(momentsadjust)

```

```

## 'data.frame':    7 obs. of  5 variables:
## $ EFFR: num  1.00 1.99e+02 3.99e+04 8.06e+06 1.64e+09 ...
## $ OBFR: num  1.00 1.97e+02 3.91e+04 7.79e+06 1.56e+09 ...
## $ TGCR: num  1.00 2.05e+02 4.41e+04 1.04e+07 2.85e+09 ...
## $ BGCR: num  1.00 2.05e+02 4.41e+04 1.04e+07 2.85e+09 ...
## $ SOFR: num  1.00 2.07e+02 4.49e+04 1.06e+07 2.91e+09 ...

```

```

adjusttable <- xtable(momentsadjust)

moments_covid <- all.moments(covid, order.max=6);
momentscovid<-as.data.frame(moments_covid,row.names=c('constant','mean','variance','skew','kurtosis','r
rownames(momentscovid) <- metrics;
momentscovid$EFFR <- momentscovid$ V1;
momentscovid$OBFR <- momentscovid$ V2;
momentscovid$TGCR <- momentscovid$ V3;
momentscovid$BGCR <- momentscovid$ V4;

```





```
inflationtable <- xtable(momentsinflation)
```

# 1 Introduction

Level and volatility of overnight policy and wholesale money market rates move closely together but vary dramatically different central bank policy regimes and other external shocks to these markets. To manage the Federal Funds rates within its target range, this paper investigates the willingness of the US central bank to offset volatility in its policy rate,

- Bertolini, Bertola, Prati () and Gara () observe the effect of Fed interventions on the volatility in interbank rates
- An efficient ample reserves regime minimizes frequency of operations, volatility of interest rates, and balance sheet costs (Schuhlhofer)
- The volume of trade in interbank markets even more volatile than rates

Results section: Hypotheses 1 Volatility: Notable is the high frequency of volatility of the Fed's policy rate EFFR as the FOMC manages the FF rate within target range. The volatility is especially high in the Fed October date ample reserves policy regime. The EFFR and OBFR are respond to changes in FOMC target range for the Federal Funds rate (FFR) and the administered rates - interest on reserves (IOR) and the overnight reverse repurchase rate (ONRRP). But the distributions of secured rates TGCR, BGCR, SOFR share similar characteristics of the distribution of these unsecured rates. (Note mean reversion, no change in distribution. Dispersion, changes in distribution coef of variation standard deviation divided by the mean.)

Hypotheses 2 Although overnight wholesale money market rates change in response to monetary policy and other shocks, they quick revert to changes in the unsecured federal funds rate (FFR) or administered rates. DDuffie Krishnamuthy show evident that ispersion among these secured overnight rights impede passthrough of monetary policy to the economy. Mean reverision versus dispersion hypothesis

Hypothesis 3 The rate data provide evidence of Fed's difference preferences for offsetting volatility in the Federal Funds market to manage the FFR within its target range, The Fed may change target and administered rates. But sometimes temporarily changes in reserves (FF market, TGCR) to manage the FFR through repo markets. A a reverse repo increase in reserves through Fed purchase of reserves with securities, lowers the FFR, a decrease in reserves through a repo with dealers or () increases the FFR>

Hypothesis 4: Puzzle: The demand for each instrument, price versus volume reveals, large changes in demand but relatively stable rates A puzzle: price stable, demand fluctuates? Daily rates versus dollar volumes of transactions illustrate demand for these overnight money market instruments. Volumes more volatile than rates

Hypothesis 5 The volatility response of overnight rates to Fed interventions is greater: the lower reserves, the magnitude of the shock of the monetary policy interventions, the type of change in policy intervention: the Fed Funds targets, or bounds of the channel for the EFFR rate or the administered rates, the IOR and ONRRP.

Other: 6. spreads, indicators of reserves, arbitrage 7. another research question/hypothesis

Structure of article: IMRAD:

Introduction Methodology Results and Discussion

Conclusion Acknowledgements References Supporting Materials

### 1.0.1 The time series properties/characteristics of overnight policy, interbank rates, and reserves held at the Federal Reserve

The federal funds market consists of domestic unsecured borrowings by depository institutions from other depository institutions and certain other entities, primarily government-sponsored enterprises. The effective federal funds rate (EFFR) is calculated as a volume-weighted median of overnight federal funds transactions. Overnight Bank Funding Rate The overnight bank funding rate is a measure of wholesale, unsecured, overnight bank funding costs. It is calculated using federal funds transactions, certain Eurodollar transactions, and certain domestic deposit transactions

The Tri-Party General Collateral Rate (TGCR) is a measure of rates on overnight, specific-counterparty tri-party general collateral repurchase agreement (repo) transactions secured by Treasury securities. Fed uses this market for temporary interventions according to David Gibbs, Education Director Chicago Mercantile Exchange (CME) The Broad General Collateral Rate (BGCR) is a measure of rates on overnight Treasury general collateral repurchase agreement (repo) transactions. This market serves agents looking for specific cusip numbers. The Secured Overnight Financing Rate (SOFR) is a broad measure of the cost of borrowing cash overnight collateralized by Treasury securities. The SOFR includes all trades in the Broad General Collateral Rate plus bilateral Treasury repurchase agreement (repo) transactions cleared through the Delivery-versus-Payment (DVP) service offered by the Fixed Income Clearing Corporation (FICC), which is filtered to remove a portion of transactions considered “specials”.

The distributions of daily rates and transactions, billions of dollars, their medians and standard deviations change dramatically from year to year (Figure ??). And within differing FOMC policy regimes (Table ??). Here volatility as measured by the annual standard deviation of the series.

The median effective Federal Funds rate (EFFR) for the sample of daily rates from 3/03/2016 through 12/29 2022 is some 108 basis points. Volatility as measured by the standard deviation is 98 points. The overnight money market rates TGCR and BGCR share a similar distribution. The unsecured daily median effective Federal Funds rate (EFFR) is... The secured overnight financing rate (SOFR) is a broad measure of the general cost of financing Treasury securities for a broad range of repurchase market participants. SOFR is a measure of the cost of borrowing cash overnight collateralized by Treasury securities. TGCR and BGCR. The OBFR is designed to track the EFFR

Regular text above.

Year	EFFR	OBFR	TGCR	BGCR	SOHR
<hr/>					
<hr/>					
<hr/>					
Sample					
mean	91.00	81.00	79.00	80.00	91.00
median	108.29	104.77	104.39	105.53	108.09
stdev	98.14	98.14	98.14	98.14	98.14

Table 1: Statistics: daily policy and money market overnight rates (basis points)

The volume of transactions in these markets is even more volatile than the rates. Changes in the volume of transactions, is greater than changes in rates, both in median volumes and their volatility #daily-volume sample 1 brush.png} #Table 4 Median daily transactions, billions of dollars for the sample range from \$283 billion in EFFR transactions to \$562 in the BGCR.

The level of rates and changes in volatility as measured by the standard deviation is more evident in the latter three years of the sample, 2020, 2021, and 2022 than in the earlier years 2016 and 2017 Table 3 ). Annual changes in median rates in the early years of the sample, 2016-2019 (Table 3), are not as volatile as the later years 2020-2022. Annual changes in EFFR rates changed some 70 to 87 bp (basis points) in 2017 and 2018, 46 to 52 basis points in 2019. The most volatile changes in the later years are the fall in the EFFR in 2020 of 228 bp and the 158 basis point increase in 2022

This difference in rate volatility is borne out by the changes in the standard deviation of the EFFR, 3.56 to 14.94 bp in the earlier years, but 24.07 bp in 2020, -55.07 in 2021, and 139.14 in 2022

Year	EFFR	OBFR	TGCR	BGCR	SOHR
<hr/>					
<hr/>					
Sample					
mean	210.00	312.00	359.00	637.00	103.00
median	283.83	339.47	347.78	562.13	383.56
stdev	250.54	225.27	179.02	247.01	405.24

Table 2: Statistics: daily policy and money market overnight transactions (\$ billions)

## 1.1 Rates

Year	EFFR	OBFR	TGCR	BGCR	SOHR
<hr/>					
<hr/>					
2016					
mean	40.04	32.73	32.98	38.73	39.86
median	40.00	30.00	30.00	36.00	40.00
st dev	6.47	6.47	6.47	6.47	6.47
2017					
mean	100.37	86.29	86.68	89.31	100.06
median	116	101	101	101	116
stdev	21.41	23.51	23.56	24.17	21.51
2018					
mean	183.12	181.26	180.62	183.24	182.85
median	191	186	186	188	191
stdev	29.59	32.74	31.47	30.44	29.07
2019					
mean	216.55	216.27	217.84	217.70	219.89/
median	237	237	238	238	237
stdev	33.15	33.98	38.98	38.89	39.00
2020					
mean	35.96	35.79	35.25	34.54	34.95
median	9	9	8	7	7
stdev	57.22	56.98	56.84	57.17	58.03
2021					
mean	5.97	4.83	4.74	3.56	6.64
median	7	5	5	5	8
stdev	2.18	2.34	2.21	1.96	2.77
2022					
mean	165.66	165.24	161.69	161.43	162.00
median	158	157	150	150	152
stdev	141.29	141.76	137.77	138.12	140.34
<hr/>					
Sample 1					
mean	91.00	81.00	79.00	80.00	91.00
median	108.29	104.77	104.39	105.53	108.09
stdev	98.14	98.14	98.14	98.14	98.14

Table 3: Statistics: daily policy and money market overnight rates (basis points)

```
''{r} rates<-ggplot(rrbp, aes(x = sdate)) + geom_point(aes(y = rrbp[,1], color = "EFFR"), shape = 16,
size = 1) + geom_point(aes(y = rrbp[,2], color = "OBFR"), shape = 16, size = 1) + geom_point(aes(y =
```

```
rrbp[,3], color = "TGCR"), shape = 16, size = 1) + geom_point(aes(y = rrbp[,4], color = "BGCR"), shape = 16, size = 1) + geom_point(aes(y = rrbp[,5], color = "SOFR"), shape = 16, size = 1) + labs(x = "X-axis", y = "Y-axis", color = "Lines") + scale_color_manual(values = c("EFFR" = "black", "OBFR" = "blue", "TGCR" = "green", "BGCR" = "orange", "SOFR" = "red")) + #scale_x_date(labels = date_format("%Y-%m-%d")) + #scale_x_date(labels = date_format("%Y-%m-%d")) + theme_minimal()''
''{r} summary(rrbp)''
''{r} with(rrbp,boxplot(rrbp, + col= "lightgray",
+ main= "Overnight rates", + xlab= "", + ylab="basis points (bp)", + ylim= c(0,450), +
#abline(h=quantile(rrbp,c(0.25,0.75)),col="blue"), + names= c("EFFR","OBFR","TGCR","BGCR","SOFR"),
# group names + las= 1,
+ boxwex =0.6))''
```

## 1.2 Times series behavior of rates within different FOMC policy regimes

For the sample period 2016 through 2022, median transactions in unsecured rates were \$\$\$210 billion (EFFR), \$\$\$312 billion (OBFR) (Table 4). Volumes in secured rights were much higher \$\$\$359 (TGCR), \$\$\$637 (BGCR). It's notable how lower were the volume of transactions in the unsecured rates, the EFFR and OBFR. Trade in SOFR was a small \$\$\$103 billion where volatility was also the highest, \$\$\$405 billion. The standard deviations for EFFR, OBFR and BGCR were around \$\$\$250 billion, TGCR a lower \$\$\$179 billion. The dollar volume of transactions in the EFFR and SOFR exhibit more volatility than their rates (Table 4).

The standard deviation of the volume of EFFR transactions increased 108 \$62.5 billion in 2019 and 197 \$62.5 billion in 2020 but fell 170\$62.5billion in 2022. SOFR 234 \$62.5 billion in 2019 and 168\$62.5 billion in 2022 but fell 258 \$62.5 billion in 2021.

The largest increases in volatility in EFFR occurred in 2019, 108 billion and 197 billion in 2020. The standard deviation of EFFR fell 38 billion in 2017, 87 billion in 2021, and 170 billion in 2022. Volatility in SOFR fell in 2017, 9 billion , and 258 billion in 2021. Major increases occurred in 2019, 234 billion, and 2022, 168 billion.

DUPLICATE OF ABOVE OR INTEGRATE ## Daily volumes of transactions in the interbank market  
The times series behavior of the dollar volume in overnight rate securities is similar to that of the rates, high levels and volatility in 2020-2022, the tendency to cluster around volumes of the unsecured rates, EFFR and OBFR (Table ~4). #Figure ?? #(Figure ??).

The same can be said for the annual changes in volumes traded, small changes in 2016-2019, large changes in 2020-2022. Volumes in EFFR traded increased by \$\$\$407 billion in 2020, then dropped off \$\$\$216 billion in 2021, and fell a further \$\$\$164 billion in 2022. Traded volumes are volatile during these years, the standard deviation increasing \$\$\$197,19 in 2020, falling \$\$\$87.03 billion in 2021, and dropping another \$\$\$170 billion in 2022.

During the earlier years 2016 and 2017, BGCR volume exceeds TGCR volume until both rates achieve their maximum, then the reverse as rates and volumes of transactions decline. During the period of the zero lower bound, there is little trading in any of the overnight rate products. The volume of Effective Federal Funds rate (EFFR) transactions rose 407 in 2020 and fell 216 in 2021 and 164 in 2022 4). Then TCGR and BGCR volumes surge as the FOMC raises the Federal Funds rate in 2022. (Figure ??). mean, medias, and standard deviations daily volumes (\$ billions) characterize their distribution (Table 4).

The increases in SOFR volumes dwarf the EFFR increased 068 %268 in 2019 and 878 in 2022. SOFR volumes fell 682 in 2020 and 292 in 2021. Daily SOFR trading volumes, \$1.1 trillion dwarf the Federal funds market, \$62.5 billion. (2020? Gibbs CME webinar on repo).

### 1.3 Daily volumes of transactions in the interbank market

The times series behavior of the dollar volume in overnight rate securities is similar to that of the rates, high levels and volatility in 2020-2022, the tendency to cluster around volumes of the unsecured rates, EFR and OFR (Table ~4). #Figure ?? #Figure ??).

The same can be said for the annual changes in volumes traded, small changes in 2016-2019, large changes in 2020-2022 (Table 4). Volumes in EFR traded increased by \$\$\$407 billion in 2020, then dropped off \$\$\$216 billion in 2021, and fell a further \$\$\$164 billion in 2022. Traded volumes are volatile during these years, the standard deviation increasing \$\$\$197,19 in 2020, falling \$\$\$87.03 billion in 2021, and dropping another \$\$\$170 billion in 2022.

During the earlier years 2016 and 2017, BGCR volume exceeds TGR volume until both rates achieve their maximum, then the reverse as rates and volumes of transactions decline. During the period of the zero lower bound, there is little trading in any of the overnight rate products. The volume of Effective Federal Funds rate (EFR) transactions rose 407 in 2020 and fell 216 in 2021 and 164 in 2022 4). Then TGR and BGCR volumes surge as the FOMC raises the Federal Funds rate in 2022. (Figure ??). mean, medias, and standard deviations daily volumes (\$ billions) characterize their distribution (Table 4).

The increases in SOFR volumes dwarf the EFR increased 068 %268 in 2019 and 878 in 2022. SOFR volumes fell 682 in 2020 and 292 in 2021. Daily SOFR trading volumes, \$1.1 trillion dwarf the Federal funds market, \$62.5 billion. (2020? Gibbs CME webinar on repo).

Table 4

ADD Table and figures display changes in the Fed funds rate and the administered rates IOR and the reward rate ON RRP

A more detailed look at the time series properties of reference rates and transactions is evident subsets of the sample that reflect five distinct policy regimes in the data: 1. normalcy 3/4/2016-7/31/2019 % 4 859 2. mid cycle adjustment 8/1/2019-10/31/2019 737660 %860 - 923 3. covid 11/1/2019-3/16/2020 %924 1032 4. Zero lower bound (zlb) 3/17/2020-3/16/2022 %1032-1516 5. Taming inflation 03/17/2022-12/29/2022 %1517-1741

The median EFR changes from 116 bp during the normalcy period, increases to 212 bp during the adjustment period, then falls precipitously to 127 during covid, reaching a low 7 bp during the zero lower bound (Table ]ref{table:FOMCrateepochs}). The Federal Funds rate has gone through several increases during the taming of inflation to 233 bp over the period. Volatility is low under the two earlier regimes 2016 to 2018. 55 bp during covid, 2 during the ZLB, then rising to 127 pb during the taming of inflation.

### 1.4 Weekly rates and reserves}

#(Hypothesis 1 continued With weekly data on reserves, rates are higher when reserves are low, and the converse when reserves are high or ‘ample’ (Tables ~?? and ~??). Daily reserve data are available only to Federal Reserve staff, NYFed staff recommended this analysis use the weekly series of reserves Reserve Balances with Federal Reserve Banks: Week Average (WRESBAL) \$S billions normalized by deposits of commercial banks (DPSACBW02SBOG) \$S billions to control for the growth of the banking industry. Both weekly series ending on Wednesday.

DISCUSS NUMBERS OF NORMALIZED RESERVES Total reserves in the U. S. banking system now exceed \$\$\$3.081237 trillion (Totresns). At the beginning of 2009, reserves were \$\$\$800 billion, compared to approximately \$\$\$10 billion pre-crisis. Reserves continued to increase until late 2014. Fed’s quantitative easing programs raised reserves to a peak of \$\$\$2.8 trillion in September 2014. Peak reserves peaked \$\$\$4.275 at then end of 2021 In November 2022, From late 2017, when the Federal Open Market Committee began implementing its policy of “balance sheet normalization” aggregate reserves began to decline, reaching a low of \$\$\$1.4 trillion in early September 2019 (Table ~??, Figure ~??).

Year	EFFR	OBFR	TGCR	BGCR	SOHR
2016					
mean 237.46	287.31	328.90	682.20	68.34	
median 248	290	334	683	67	
st dev 53.99	27.39	24.03	33.23	17.6699	
2017					
mean 203.82	331.35	352.49	744.82	85.08	
median 206	340	357	756	85	
st dev 16.1908 34.5731 31.2719 50.5360 8.8775					
2018					
mean 179.69	413.85	371.08	759.5	99.78	
median 160	382	394	804	79	
st dev 69.8150 140.5001 86.9368 173.7034 80.3122					
2019					
mean 183.37	401.34	331.30	368.31	896.70	
median 72	175	430	456	1047	
st dev 177.66	364.78	176.10	160.64	313.27	
2020					
mean 586.42	186.74	446.44	308.84	544.14	
median 479	148	350	341	365	
st dev 374.84	160.51	370.92	136.61	386.78	
2021					
mean 419.83	285.00	319.51	746.34	147.5378	
median 263	339	362	879	73	
st dev 287.82	146.76	85.11	260.05	128.51	
2022					
mean	166.68	463.54	281.25	344.80	791.5743
median	99	282	353	368	951
st dev	117.04	304.40	135.86	65.15	297.0925
Sample 1					
mean	210.00	312.00	359.00	637.00	103.00
median	283.83	339.47	347.78	562.13	383.56
stdev	250.54	225.27	179.02	247.01	405.24

Table 4: Statistics: daily policy and money market overnight transactions (\$ billions)

During 2016 and 2017 reserves were \$\$\$180 to \$\$\$200 million reaching a low of \$\$\$160 million on 1/4/2017 (Table ~??). During the initial years of the sample from 3/02/2016 until. reserves were around \$\$\$200 million until 9/28/2016 when reserves fell to \$\$\$180 million. Then returned to \$\$\$200 million on 2/15/2017 until 6/24/2018

From 7/28/2017 to 6/24/2018, volume weighted median overnight money market rates are higher and normalized reserves are low, 0.19 or \$\$\$190 million the week of 7/26/2017 (Figure ??). All rates reach a maximum at the end of June or first week of July 2018. The EFFR and OBFR reach their maximum value 179.56 and 387.74 basis points respectively during the week 6/24/2018. The money market rates TGCR, BGCR, and SOFR reach their maxima the following week 7/1/2018, Reserves per deposits fell to 0.16 or \$\$\$160 million on 6/27/2018. All rates then decline, reaching their lowest level 4/5/2020 just as reserves begin to increase to 0.18 or or \$\$\$180 million . The EFFR reaches a low of 1.74 basis points. Reserves increase from 4/5/2020 to 9/15/2021, 0.24 or \$\$\$240 million then begin to decline. From 3/13/2022 to the present, all rates rise steeply with the successive increases in the Fed policy rate response to inflation. The EFFR rises on 3/13/2022 from 1,74 to 27.36 basis points. Reserves decline slightly to 0.17 or \$\$\$170 million at the end of the sample 12/29/2022 (revise data)

e:weeklyreserves} \end{table}

FOMC rate statistics by policy regimes (bps)					
	EFFR	OBFR	TGCR	BGCR	SOFR
<b>2016 to 2018: Returning to Normalcy</b>					
mean	133.75	127.42	127.32	130.22	133.85
median	116.00	104.00	104.00	109.50	116.00
stdev	74.48	74.48	74.48	74.48	74.48
<b>mid cycle adjustment 3/4/2016 - 7/31/2019</b>					
mean	200.09	197.84	206.30	206.34	208.22
median	212.00	210.00	207.50	207.50	210.00
stdev	15.62	15.62	15.62	15.62	15.62
<b>Covid</b>					
mean	155.00	154.00	152.00	152.00	155.00
median	127.40	126.50	124.84	124.84	127.04
stdev	54.92	54.92	54.92	54.92	54.92
<b>ZLB</b>					
mean	6.4070	5.8678	6.1240	5.0599	6.37
median	7.00	5.00	7.00	5.00	7.00
stdev	2.40	2.40	2.40	2.40	2.40
<b>Inflation</b>					
mean	207.04	206.54	201.28	201.21	202.43
median	233.00	232.00	226.00	226.00	227.00
stdev	129.33	129.33	129.33	129.33	129.33
<b>Sample</b>					
mean	91.00	81.00	79.00	80.00	91.00
median	108.29	104.77	104.39	105.53	108.09
stdev	98.14	98.14	98.14	98.14	98.14

Table 5: FOMC rate distributions by policy regime 2016 to 2022

### Similar cross section behavior of overnight rates HYPOTHESIS2: The evidence that daily policy and money market reference rates vary widely with the prevailing monetary policy, a second puzzle is that daily money market rates hover around Fed targets and quickly revert to them in times of shocks. Bertolini et al note the tendency of short term rates to hover around official targets and quickly revert to them in times of shocks.

Annual average daily median unsecured rates - EFFR, OBFR, and secured rates - TGCR, BGCR, and SOHR, median rates are at most 15 basis points of each other at any year during the sample period 2016-2022. For example, 10 bp in 2016, 15 bp in 2017 5 bp in 2018, 1 bp in 2019 2 bp in 2020, 3 bp in 2021, 8 bp in 2022. But disperions of the EFFR and SOFR rate between the 25th and 75th percentiles are large as 250 basis points (Figure ??, Figure ??). In contrast, the dispersion among volumes traded (the bottom plot) is relatively small except for SOFR (Figure). The New York Fed only provides quintiles for the EFFR and SOFR. The sample standard deviations of the EFFR and SOFR (Figure) vary about 50 basis points between the 25th and 75th percentiles.

```

'''{r, echo=FALSE} with(rrbp,boxplot(rrbp, col= "lightgray",
main= "Overnight rates", xlab= "", ylab="basis points (bp)", ylim= c(0,450), #abline(h=quantile(rrbp,c(0.25,0.75)),col="black",lty=1),
names= c("EFFR","OBFR","TGCR","BGCR","SOFR"), # group names las= 1,
boxwex =0.6))

boxplot<-ggplot(rrbp,aes(sdate,rrbp)) ...

'''{r, echo=FALSE} plot + geom_boxplot(outlier.col="red")+ stat_summary() # qqplot plot(sort(rrbp[,1]),sort(rrbp[,5]))
abline(0,1) qq(plot)'''

```



Year	WRESBAL (\$ billions)	DPSACBW027SBOG (\$ billions) (1.0e+04 )	Normalized
2016			
mean	0.2592	1.4275	0.1786
median	0.2309	1.3047	0.0349
stdev	0.0840	0.2503	0.0349
2017			
mean	0.2622	1.4486	0.1777
median	0.2334	1.3249	0.0358
stdev	0.0861	0.2465	0.0358
2018			
mean	0.2697	1.5041	0.1749
median	0.2857	1.5507	0.0386
stdev	0.0927	0.2346	0.0386
2019			
mean	0.2882	1.5757	0.1783
median	0.3117	1.6149	0.0418
stdev	0.0948	0.2079	0.0418
2020			
mean	0.3327	1.6743	0.1975
median	0.3268	1.7144	0.0293
stdev	0.0637	0.1367	0.0293
2021			
mean	0.3646	1.7571	0.2077
median	0.3796	1.7788	0.0242
stdev	0.0405	0.0550	0.0242
2022			
mean	0.3387	1.7962	0.1885
median	0.3285	1.8008	0.0165
stdev	0.0312	0.0117	0.0165
Sample 1 3/9/2016 - 12/29/2022			
mean	0.2580	1.4093	0.1807
median	0.2332	1.2812	0.1858
stdev	0.8159	2.5530	0.0349

Table 6: Statistics: Weekly reserves, WRESBAL (\$ billions 1.0E+04), commercial bank deposits DP-SACBW027SBOG (\$ billions 1.0E+04), normalized reserves WRESBAL/DPSACBW027SBOG Sample 2 7/28/2016 - 12/29/2022 (basis points)

## 2 {dispersionSofr.png}{dispersionffr.png}

### 2.1 Mean reversion tests:

From the point of view of finance, overnight federal funds represent the shortest-term security that is actively traded and thus form the base of any term structure relation.

There is controversy if overnight rates, the FFR in particular, follow a random walk. Hamilton (1996) and others have concluded that the hypothesis that the FFR follows a martingale is inconsistent with observed daily changes in the federal funds rate. (Bertolini, Bertola, Prati ,) site frictions such as transactions costs, interbank credit limits, overdraft penalties, obstacles to intra-period arbitrage preclude the FFR from following a martingale process.

if the FFR were to follow a random walk, then Federal Funds are perfect substitutes on any business day for satisfying banks' liquidity needs,  $i_t = E_t i_{t+1}$ . A natural hypothesis would be that the federal funds rate on day  $t$  should be equal to the rate that banks' funds traders expect to hold the following day. Otherwise,

profits for trading. If  $i_t > E_t i_{t+1}$ , it would pay a bank to lend one more dollar on today's federal funds market. That leaves the bank the possibilities of borrow one more dollar at date  $t + 1$  to fulfill its desired level at an expected lower cost  $i_{t+1}$ , or it leaves the bank with one less dollar of excess reserves available for lending tomorrow, an expected opportunity cost  $i_{t+1}$  of forgone revenue. In either case, the bank would profit by lending today.

To test for mean reversion, Fama and French (1988b) Fama and French use regressions tests to study serial correlation in many-period returns. They regress multiperiod returns on lagged multiperiod returns. If  $R_t$  denotes the de-meanned  $k$ -period return, the regression coefficient is (3) Regress  $R_t$  on  $R_{t-k}$ . Their regression tests reject the null hypothesis of serially independent returns. Their results are stronger than the variance-ratio test

To gain insight into the idea that FFR rates on any day are substitutes, I repeated Fama French regressions of the five daily overnight rates on their lags of 1, 2, 3, 5, 7, up to 10 days;

$$r_t = a + b_t r_{t-k}$$

Note ADD t,se F stats The coefficients of the EFFR on prior days are close to 1, different from other evidence the Fed Funds rate is not a martingale (Hamilton, 1996 and others). The regression coefficient of the EFFR on the prior day is 1.02, 1.06 two days, 1.07 three days, and 1.12 five days (Table ~7). This suggests the Federal Funds rate is a martingale in the high frequency data, over one or two trading days. With 1710 observations, standard errors are small. Intercepts  $\gamma_0$ , however, are non zero.

That other rates are substitutes for the FFR for bank liquidity needs is low on a daily basis but the adjustment to the EFFR increases at longer lags. All rates OBFR, TGCR, BGCR, SOFR load significantly on the prior lag of the EFFR. For a one day lag, the OBFR coefficient on the EFFR is 0.4, TGCR 0.53, BGCR 0.54 but 0.85 on SOFR. Loadings on longer lags are higher, on five days the OBFR reaching 0.78, 0.81 TGCR, 0.84 BGCR, and 1.06 SOFR (Table ~7). This high frequency evidence that other rates adjust within days to settings of the FFR.

```
k=1
lhv<- rrbp[2:1710,1:5]
T<-nrow(lhv)
ones_v <- rep(1, times = T)
nrow(ones_v)

## NULL

rhv1<- rrbp[1:1709,1:5]
rhv<- cbind(rhv1, ones_v) # Add a column of ones
nrow(lhv)

## [1] 1709

nrow(rhv)

## [1] 1709

nlag<-1
nw<-1

result <-olsgmmv2(lhv,rhv,nlag,nw) #constant
```

		gamma0	EFFR	OBFR	TGCR	BGCR	SOHR		
1 day									
		gamma	beta1	beta2	beta3	beta4	beta5	R2adj	chi
EFFR	coefficient	0.29	1.02	0.01	0.03	0.02	-0.08	0.996	70447
	standard deviation	0.18	0.13	0.14	0.15	0.06	0.14		
OBFR	coefficient	-0.86	0.40	0.64	0.18	0.03	-0.24	0.995	37746
	standard deviation	0.28	0.09	0.10	0.11	0.05	0.09		
TGCR	coefficient	-0.63	0.53	0.23	0.56	0.00	-0.33	0.989	39616
	standard deviation	0.30	1 0.13	0.10 0.11	0.054	0.12			
BGCR	coefficient	-0.52	0.54	0.22	-0.27	0.83	-0.33	0.989	39610
	standard deviation	0.29	0.13	0.10	0.11	0.06	0.12		
SOFR	coefficient	-0.28	0.85	-0.01	-0.02	0.04	0.14	0.992	26405
	standard deviation	0.27	0.11	0.10	0.12	0.04	0.09		
2 days									
EFFR	coefficient	0.42	1.06	0.07	-0.08	0.11	-0.15	0.993	19109
	standard deviation	0.33	0.21	0.24	0.26	0.07	0.20		
OBFR	coefficient	-1.29	0.60	0.54	0.22	-0.05	-0.30	0.991	11358
	standard deviation	0.45	0.13	0.16 0.18	0.06	0.14			
TGCR	coefficient	-0.82	0.58	0.42	0.20	-0.02	-0.27	0.985	14932
	standard deviation	0.47	0.15	0.18	0.19	0.07	0.15		
BGCR	coefficient	-0.68	0.60	0.40	-0.49	0.75	-0.26	0.985	15204
	standard deviation	0.44	0.15	0.18	0.20	0.08	0.15		
SOFR	coefficient	0.10	0.90	0.15	-0.16 0.08	0.03	0.988	139321.66	5
	standard deviation	0.38	0.20	0.21	0.22	0.06	0.19		
3 days									
EFFR	coefficient	0.49	1.07	0.07	-0.09	0.11	-0.16	0.990	80998
	standard deviation	0.43	0.21	0.25	0.27	0.07	0.20		
OBFR	coefficient	-1.70	0.68	0.47	0.25	-0.14	-0.25	0.987	52944
	standard deviation	0.66	0.16	0.20	0.23	0.10	0.17		
TGCR	coefficient	-1.23	0.66	0.38	0.27	-0.11	-0.21	0.982	76868
	standard deviation	0.65	0.16	0.21	0.23	0.10	0.18		
BGCR	coefficient	-1.06	0.69	0.36	-0.45	0.60	-0.20	0.982	78734
	standard deviation		0.60	0.17	0.21	0.23	0.11	0.17	
SOFR	coefficient	0.08	0.98	0.09	-0.15	0.14	-0.07	0.985	80680
	standard deviation	0.46	0.21	0.25	0.26	0.08	0.21		
5 days									
EFFR	coefficient	0.55	1.12	0.07	-0.08	0.11	-0.21	0.985	29175
	standard deviation	0.69	0.21	0.26	0.27	0.09	0.21		
OBFR	coefficient	-1.73	0.78	0.41	0.34	-0.22	-0.30	0.982	21739
	standard deviation	0.90	0.18	0.21	0.23	0.12	0.17		
TGCR	coefficient	-1.34	0.81	0.28	0.40	-0.18	-0.32	0.977	26547
	standard deviation	0.86	0.17	0.20	0.22	0.12	0.16		
BGCR	coefficient* -1.19	0.84	0.25	-0.28	0.48	-0.29	0.977	26814.02	5
	standard deviation	0.81	0.17	0.21	0.24	0.15	0.17		
SOFR	coefficient	0.10	1.06	0.05	-0.10	0.13	-0.13	0.980	28707
	standard deviation	0.68	0.21	0.25	0.27	0.09	0.20		

Table 7: Daily policy and money market rates regressed on lagged rates

```
##
## Attaching package: 'matlab'

## The following object is masked from 'package:stats':
```

```

##
##      reshape

## The following objects are masked from 'package:utils':
##
##      find, fix

## The following object is masked from 'package:base':
##
##      sum

## [1] 1709
## [1] 1709
## [1] 1709
## [1] 5
## [1] 6
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 108.3745 104.8578 104.4833 105.6173 108.1761
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 2      4.782925e-02 -1.112729e+00 -1.513994241 -2.759384459 -8.569612e-01
## 3      7.838396e-02 -1.058840e+00  0.494630239  1.910081349 -7.862948e-01
## 4     -4.645607e-02  4.973513e-01 -0.637795342  0.945479442 -8.489813e-01
## 5     -7.725806e-02 -8.072520e-01 -1.110043621 -0.323038732 -8.655997e-01
## 6     -7.725806e-02 -8.072520e-01 -0.110043621  3.676961268 -8.655997e-01
## 7     -1.778715e-01 -9.651799e-02 -1.687037011 -2.392171945 -9.852760e-01
## 8     -1.002977e-01 -1.473026e+00 -1.348323880 -0.374664271  1.084244e-01
## 9     -1.129689e-02 -5.897292e-01 -2.787206603 -2.829882198 -4.566556e-02
## 10     1.135431e-01 -2.145920e+00 -2.654781022 -4.865280291  1.702087e-02
## 11     2.296812e-01 -1.578995e+00 -2.609851593 -4.362361808  1.179824e-01
## 12     3.227795e-01 -1.677845e+00 -0.803202423  0.088931136  1.929680e-01
## 13     2.604832e-01 -2.743922e-01  2.862396686  6.906156366  1.346009e-01
## 14     -2.751392e-02  2.145271e+00  0.354953025  2.090594110 -5.208105e-02
## 15     -7.384054e-02 -4.369908e-01 -0.585231292  0.388290665 -4.998483e-02
## 16     -7.384054e-02 -4.369908e-01  0.414768708  0.388290665 -4.998483e-02
## 17     -1.133445e-01 -6.184785e-01 -3.144975723 -2.341910933 -2.832824e-02
## 18     5.099949e-02 -2.993182e+00  0.547194288  6.352892572  1.270161e-02
## 19     -1.211166e+01  3.717188e-01  0.099423806 -0.299963043 -2.193897e-01
## 20     1.214402e+01  3.975996e+00  4.980721690  4.482309084 -1.882633e+00
## 21     -9.861592e-01 -3.523337e+00 -5.712997698 -5.764555454  1.691126e+00
## 22     5.876180e-02 -1.354352e+00 -1.218837692 -1.430214793  3.344255e-03
## 23     8.180148e-02 -6.885785e-01  0.019442567  0.621410746  2.932010e-02
## 24     2.702014e-02 -8.970107e-01 -0.544614103  0.056476245  1.564348e-02
## 25     2.702014e-02 -8.970107e-01 -0.544614103  1.056476245  1.564348e-02
## 26     1.174278e-02  7.604470e-02 -0.548926343 -0.778256659 -1.968972e-02
## 27     1.925782e-02 -5.358400e-01 -0.778582123 -0.160416391  2.500084e-02
## 28     1.925782e-02 -5.358400e-01 -0.778582123 -0.160416391  2.500084e-02
## 29     1.925782e-02 -5.358400e-01 -0.778582123  3.839583609  2.500084e-02
## 30     -4.185160e-02 -6.436184e-01 -0.795831083 -1.499348005 -1.163320e-01
## 31     -1.129689e-02 -1.589729e+00 -2.787206603 -5.829882198 -4.566556e-02
## 32     1.671375e-01 -2.426257e+00 -2.407876283 -2.144188945  1.136631e-01
## 33     2.374435e-01 -9.401661e-01 -2.375883574 -1.145469173  1.086250e-01
## 34     2.769475e-01 -1.758678e+00  2.183860857  4.584732425  8.696844e-02
## 35     3.502974e-02  9.925327e-01 -1.847022285 -3.127578753 -4.776179e-02

```

```

## 36 1.518602e-01 -1.453202e+00 -2.412188523 -2.978921849 7.832992e-02
## 37 2.296812e-01 -1.578995e+00 -1.609851593 -2.362361808 1.179824e-01
## 38 2.527208e-01 -9.132215e-01 -2.371571334 -2.310736269 1.439582e-01
## 39 3.075022e-01 -1.704789e+00 1.192485337 1.254198232 1.576348e-01
## 40 -6.849080e+00 3.087433e-01 -2.265716655 -1.223712637 1.072476e-01
## 41 7.370062e+00 1.237365e+00 3.088837249 3.456483286 -9.043820e-01
## 42 -3.860075e-01 -1.859870e+00 -3.229985050 -3.005629740 1.108077e+00
## 43 1.748998e-01 -7.874277e-01 -0.173908263 1.072703690 1.043058e-01
## 44 1.048411e-01 -2.280453e-02 0.257722826 1.673036285 5.529594e-02
## 45 2.702014e-02 1.029893e-01 -1.544614103 0.056476245 1.564348e-02
## 46 5.876180e-02 -1.354352e+00 -1.218837692 -0.430214793 3.344255e-03
## 47 6.652412e-02 -7.155231e-01 -0.984869673 -0.213322157 -6.013101e-03
## 48 6.652412e-02 -7.155231e-01 -0.984869673 -0.213322157 -6.013101e-03
## 49 6.652412e-02 -7.155231e-01 -0.984869673 -0.213322157 -6.013101e-03
## 50 6.652412e-02 -7.155231e-01 0.015130327 2.786677843 -6.013101e-03
## 51 -1.881192e-02 2.215551e-02 -1.557550823 -0.447722466 -9.035612e-02
## 52 2.820710e-02 -1.408242e+00 -2.227462172 -3.099680600 -6.732214e-02
## 53 1.213055e-01 -1.507091e+00 -2.420813003 -4.648387656 7.663517e-03
## 54 2.296812e-01 -1.578995e+00 -2.609851593 -3.362361808 1.179824e-01
## 55 3.075022e-01 -1.704789e+00 -1.807514663 -3.745801768 1.576348e-01
## 56 3.458192e-01 -1.012071e+00 1.435077836 4.140556675 2.189439e-01
## 57 1.356431e-01 2.817987e-01 -2.270028895 -4.058445541 7.191443e-02
## 58 2.602359e-01 -5.251063e-01 -1.601227113 0.307103999 1.886488e-01
## 59 2.296812e-01 -2.578995e+00 -2.609851593 -5.362361808 1.179824e-01
## 60 3.458192e-01 -1.012071e+00 1.435077836 7.140556675 2.189439e-01
## 61 -7.910189e+00 1.200965e+00 -1.282965615 -0.562644252 -3.408517e-02
## 62 8.281740e+00 1.711607e+00 2.806259959 3.716006738 -1.160753e+00
## 63 -5.208404e-01 -2.824000e+00 -3.804039047 -3.054610524 1.156167e+00
## 64 1.290678e-01 -8.682615e-01 -1.186844983 0.568504979 -1.693838e-03
## 65 1.137904e-01 -8.952061e-01 -0.191157223 0.733772076 -3.702704e-02
## 66 5.900909e-02 -1.036383e-01 0.244786106 2.168837574 -5.070366e-02
## 67 -1.881192e-02 2.215551e-02 -0.557550823 -0.447722466 -9.035612e-02
## 68 -1.129689e-02 -5.897292e-01 2.212793397 3.170117802 -4.566556e-02
## 69 -1.756409e-01 7.849740e-01 0.520623386 1.475314297 -8.669542e-02
## 70 -1.911655e-01 -4.926846e-01 -0.947312652 -0.958470973 -6.798071e-02
## 71 -1.211068e-01 -2.573078e-01 1.621056258 4.441196432 -1.897089e-02
## 72 7.387758e-01 2.719385e-01 -0.515681563 2.641861622 -1.169905e-01
## 73 -2.648143e-01 -6.146850e-01 -1.722601512 -1.225111618 -1.018571e+00
## 74 -1.947556e-01 -2.379308e+00 -1.154232601 -1.825444213 3.043891e-02
## 75 -6.743770e-02 1.967070e-01 -0.350522825 1.605696302 -6.234201e-02
## 76 -9.047737e-02 -4.690669e-01 0.411196916 2.554070764 -8.831786e-02
## 77 -1.605361e-01 2.955563e-01 1.842828005 8.154403358 -1.373277e-01
## 78 6.457522e-01 1.105139e+00 15.459185445 8.633977202 -3.319896e-01
## 79 -7.405069e-02 7.541161e+00 1.040825392 9.693221241 -5.437327e-02
## 80 5.343585e-02 -1.817227e+00 -0.948272251 0.236551671 -1.644054e-01
## 81 -7.372530e-01 -6.147997e-01 -4.315177475 -3.365828378 -1.284716e-01
## 82 -3.590681e-01 -2.662397e+00 2.070535394 14.838359107 -1.788453e-01
## 83 -1.166041e+01 9.712328e-01 -2.733197180 -11.170935796 -6.459698e-01
## 84 1.094711e+01 1.276348e+00 -0.080934335 -0.327145926 -1.755123e+00
## 85 -1.831598e+00 -6.187134e+00 -5.727021586 -8.573263179 1.545129e+00
## 86 1.742389e-01 -4.325610e-01 -0.646874591 2.785572093 -8.907882e-02
## 87 4.716833e-02 -7.578621e-01 0.013039431 3.953483945 -5.034580e-02
## 88 -5.344507e-02 -4.712813e-02 -0.563953959 -1.115649268 -1.700220e-01
## 89 -3.065267e-02 -1.632068e+00 -2.789297498 -1.663076096 -8.999826e-02

```

## 90	8.667232e-02	-1.576374e+00	-1.427216138	-1.316314457	-7.200238e-02
## 91	1.097120e-01	-9.106005e-01	-0.188935879	0.735311082	-4.602654e-02
## 92	5.493065e-02	-1.190328e-01	-0.752992549	2.170376580	-5.970316e-02
## 93	1.661363e-02	-8.117513e-01	-1.995585049	-3.715981862	-1.210122e-01
## 94	1.172270e-01	-2.522485e+00	-4.418591658	-3.646848650	-1.335982e-03
## 95	2.970957e-01	-2.619530e+00	-2.258485609	-3.518259875	2.097916e-02
## 96	3.431750e-01	7.271202e+01	71.218074910	67.584991203	7.293085e-02
## 97	-4.169165e+00	-6.266913e+01	-56.254446491	-50.366350810	-9.168517e-02
## 98	1.010100e-01	2.125151e-01	-1.276432031	-1.726372342	-7.751467e-03
## 99	1.555441e-01	-8.297667e-01	-2.175999159	-1.760490208	5.997306e-02
## 100	2.103254e-01	-1.621334e+00	-1.611942489	-1.195555706	7.364968e-02
## 101	2.180877e-01	-9.825052e-01	-1.377974469	0.021336929	6.429232e-02
## 102	2.028104e-01	-1.009450e+00	-1.382286709	-0.813395974	2.895912e-02
## 103	-9.797190e+00	1.990550e+00	1.617713291	6.186604026	2.895912e-02
## 104	1.015461e+01	7.236436e+01	72.490231464	64.957683993	-1.585852e+00
## 105	-4.981550e+00	6.886198e+00	9.474060929	10.354754811	1.355641e+00
## 106	-4.161402e+00	9.969701e+00	12.979521528	13.850541826	-1.010425e-01
## 107	-4.161402e+00	-5.803030e+01	-55.020478472	-46.149458174	-1.010425e-01
## 108	-3.065267e-02	-6.320683e-01	-1.789297498	-3.663076096	-8.999826e-02
## 109	6.996073e-02	-1.342802e+00	-2.212304108	-2.593942883	2.967795e-02
## 110	1.477817e-01	-1.468596e+00	-1.409967178	-0.977382843	6.933042e-02
## 111	1.555441e-01	-8.297667e-01	0.824000841	2.239509792	5.997306e-02
## 112	3.070402e-02	-2.735758e-01	-0.308424740	2.274907886	-2.713374e-03
## 113	-7.613003e-03	-9.662943e-01	-0.551017239	1.388549443	-6.402242e-02
## 114	-2.289036e-02	6.761057e-03	-0.555329479	-0.446183460	-9.935562e-02
## 115	-1.537532e-02	-6.051237e-01	-1.784985258	-0.828343192	-5.466506e-02
## 116	3.940602e-02	-1.396691e+00	-0.220928588	0.736591309	-4.098844e-02
## 117	-7.613003e-03	-9.662943e-01	-2.551017239	0.388549443	-6.402242e-02
## 118	7.139496e-02	-1.603319e+00	-2.431528378	-6.151047361	-1.073356e-01
## 119	2.103254e-01	-1.621334e+00	-3.611942489	-5.195555706	-9.926350e+00
## 120	-4.541801e-01	-4.956425e+00	-3.512729228	-0.458222640	1.609638e+00
## 121	2.183350e-01	2.682089e-01	-0.914350671	-1.379610704	1.024441e-02
## 122	2.180877e-01	-9.825052e-01	-0.377974469	4.021336929	6.429232e-02
## 123	1.021970e-01	-2.987158e-01	-1.959280100	-0.882529187	-9.071709e-02
## 124	1.492160e-01	-1.729113e+00	-1.629191449	0.465512680	-6.768312e-02
## 125	1.417009e-01	-1.117228e+00	0.600464330	6.847672411	-1.123737e-01
## 126	-1.004425e+01	3.311844e-01	-0.549210210	-1.455861110	-3.163929e-01
## 127	1.018660e+01	3.157732e+00	3.279631673	4.070045322	-1.652199e+00
## 128	-7.562676e-01	-4.074937e+00	-4.707333198	-4.264674644	1.304657e+00
## 129	7.915728e-02	-1.964490e+00	-1.197560359	-4.934154726	-1.166929e-01
## 130	1.633064e-01	-1.190937e+00	-0.942031140	2.456402428	5.061571e-02
## 131	1.174743e-01	-2.717712e-01	1.045032140	3.952203717	-5.538389e-02
## 132	-3.040539e-02	6.186458e-01	-1.325673700	-1.064023729	-1.440462e-01
## 133	2.412866e-02	-1.423636e+00	-1.225240828	-0.098141594	-7.632164e-02
## 134	3.189098e-02	-7.848067e-01	-0.991272809	0.118751041	-8.567900e-02
## 135	3.189098e-02	-7.848067e-01	0.008727191	2.118751041	-8.567900e-02
## 136	-3.816771e-02	-2.018354e-02	-1.559641719	-4.280916364	-1.346888e-01
## 137	6.996073e-02	-2.342802e+00	-5.212304108	-2.593942883	2.967795e-02
## 138	2.740560e-01	-3.285304e+00	-1.496765868	-2.569885414	-4.996683e-03
## 139	2.731163e-01	-1.523359e+00	-2.350294001	-0.814676202	2.392103e-02
## 140	3.126203e-01	-1.341871e+00	-0.790549570	-0.084474604	2.264450e-03
## 141	2.578390e-01	-5.503034e-01	0.645393759	7.350590894	-1.141217e-02
## 142	4.884985e-02	2.323352e-01	-0.742561041	0.995431834	-2.414072e-01
## 143	3.332522e-02	-1.045324e+00	4.789502921	11.561646564	-2.226925e-01

## 144	-3.717496e-01	3.569360e+00	4.383601699	13.998375036	-4.814182e-01
## 145	-6.896090e-01	1.922475e+00	3.257437892	11.159085395	-7.136364e-01
## 146	-8.835680e-01	1.481344e+00	6.410171533	25.039606872	-8.542503e-01
## 147	-1.238688e+01	3.784300e+00	-8.938419217	-33.905111557	-1.398584e+00
## 148	1.094116e+01	-4.620723e+00	5.610637733	14.502134491	-1.663587e+00
## 149	-1.343442e+00	-2.447007e-01	-3.481000867	-4.824021189	1.125036e+00
## 150	-3.649764e-01	-7.946669e-01	-1.236925476	-4.180941796	-2.745840e-01
## 151	-2.260460e-01	-1.812682e+00	-4.417339587	-3.225450142	-9.359870e-02
## 152	1.008604e+00	-2.701295e+00	-2.693176867	-4.531926865	-5.760693e-02
## 153	1.124500e-01	-1.897878e+00	0.057336461	-0.357665046	-8.199507e-01
## 154	2.592703e-02	3.510316e-01	0.167503380	2.564091490	1.786719e-01
## 155	6.304873e-03	5.551877e-02	-3.545964551	-1.776204651	-3.168905e-02
## 156	1.476092e-01	-2.984958e+00	-1.092074799	0.866973315	-1.663504e-02
## 157	1.008375e-01	-3.038473e-01	-3.958539652	-4.882016185	-9.371693e-02
## 158	2.879739e-01	-3.263491e+00	-3.491713180	-6.734639508	2.733668e-02
## 159	4.271516e-01	-2.030792e+00	-1.208503492	-0.180095486	1.542740e-01
## 160	3.648552e-01	-6.273395e-01	-3.542904383	-4.362870256	9.590686e-02
## 161	4.819329e-01	-2.822360e+00	0.355553179	3.384839015	1.679507e-01
## 162	2.872815e-01	7.491684e-01	-1.881617514	-1.380377930	2.206488e-03
## 163	3.187759e-01	-1.958887e+00	-0.019464901	2.533878666	4.395517e-02
## 164	1.864208e-01	2.091882e-01	0.077765297	1.951436491	-6.342182e-02
## 165	1.008375e-01	-3.038473e-01	-2.958539652	-3.882016185	-9.371693e-02
## 166	2.331925e-01	-3.471923e+00	-0.055769850	5.700425990	1.366007e-02
## 167	-9.929470e+00	8.929776e-01	-3.503540333	-6.952429625	-2.184312e-01
## 168	1.048852e+01	7.598816e-01	1.792128022	2.720853484	-1.433184e+00
## 169	-4.463431e-01	-4.583244e+00	-2.497245031	1.202078520	1.460267e+00
## 170	1.636284e-01	7.941284e-01	-0.696891164	-1.501136681	-1.434456e-01
## 171	1.708962e-01	-2.068470e+00	-3.390170741	-3.482348780	-4.470711e-02
## 172	3.034985e-01	-1.985832e+00	-2.023777141	-2.300854238	8.621972e-03
## 173	3.265382e-01	-1.320058e+00	-0.785496882	0.750771301	3.459782e-02
## 174	2.564795e-01	-5.554349e-01	0.646134208	2.351103896	-1.441200e-02
## 175	1.238771e-01	3.619267e-01	-2.720259392	-3.830390646	-6.774108e-02
## 176	2.484699e-01	-2.444978e+00	-2.051457610	-2.464841106	4.899326e-02
## 177	2.792719e-01	-1.140375e+00	-3.579209332	-4.196322932	6.561175e-02
## 178	4.041119e-01	-2.696566e+00	-3.446783751	-5.231721025	1.282982e-01
## 179	5.049726e-01	-2.156586e+00	-3.406166562	-3.563535446	1.939265e-01
## 180	5.675162e-01	-2.309324e+00	-2.608141873	-3.781708309	1.982458e-01
## 181	5.905559e-01	-1.643550e+00	-3.369861613	-3.730082770	2.242216e-01
## 182	6.453373e-01	-2.435118e+00	-1.805804943	-2.165148269	2.378982e-01
## 183	5.983182e-01	-1.004721e+00	-2.135893594	-1.513190135	2.148642e-01
## 184	5.752786e-01	-1.670495e+00	-2.374173853	-3.564815674	1.888884e-01
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## 188	1.079110e+01	2.379822e+00	2.913979589	2.725410222	-1.236299e+00
## 189	-2.218293e-01	-4.088224e+00	-5.641354193	-6.008977150	1.671548e+00
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## 193	5.905559e-01	-1.643550e+00	0.630138387	1.269917230	2.242216e-01
## 194	4.109346e-01	7.042083e-01	-1.066343864	-1.259619179	1.478585e-01
## 195	3.876476e-01	-1.212280e+00	-3.768247922	-3.910297084	1.759306e-01
## 196	4.972103e-01	-2.795415e+00	-3.640134581	-4.780428081	2.032839e-01
## 197	5.827936e-01	-2.282380e+00	21.396170367	21.053024594	2.335790e-01

## 198	2.427580e+01	1.735408e+01	9.092778299	8.711489192	-1.040172e-01
## 199	-1.466632e+00	-7.244691e+00	-10.296113840	-11.697601037	3.758184e+00
## 200	5.718463e-01	-1.744893e+00	-3.347038171	-4.882524819	1.845590e-01
## 201	6.419050e-01	-2.509516e+00	-4.778669260	-5.482857414	2.335688e-01
## 202	7.592300e-01	-2.453822e+00	-2.416587900	-4.136095776	2.515647e-01
## 203	7.274883e-01	-1.996480e+00	-1.742364311	0.350595262	2.638639e-01
## 204	6.268749e-01	-1.285747e+00	-0.319357702	-0.718537951	1.441877e-01
## 205	5.095500e-01	-3.414403e-01	0.318560938	-0.065299589	1.261918e-01
## 206	3.844626e-01	-3.596350e-02	-4.277488441	-4.628953863	1.175533e-01
## 207	5.332820e-01	-3.688325e+00	-4.053254468	-6.367935629	1.772978e-01
## 208	-1.035809e+01	-2.509516e+00	-2.778669260	-1.482857414	2.335688e-01
## 209	1.183971e+01	2.501134e+00	7.258899601	8.065611705	-1.453027e+00
## 210	-5.089138e-01	-1.474390e+00	-6.412506480	-6.636685313	1.655564e+00
## 211	4.632233e-01	-2.923702e+00	-2.621623379	-2.767603034	1.282880e-01
## 212	4.787480e-01	-1.646044e+00	-3.153687340	-3.333817763	1.095733e-01
## 213	5.335293e-01	-2.437611e+00	-3.589630670	-4.768883262	1.232499e-01
## 214	6.113503e-01	-2.563405e+00	-1.787293740	-2.152323221	1.629024e-01
## 215	5.643313e-01	-1.133008e+00	-1.117382391	-1.500365087	1.398684e-01
## 216	5.017876e-01	-9.802697e-01	-0.915407081	0.717807776	1.355492e-01
## 217	4.086893e-01	-8.814204e-01	0.277943749	2.266514832	6.056349e-02
## 218	2.608096e-01	-9.910035e-01	-1.092762091	2.250287386	-2.809879e-02
## 219	2.072152e-01	-7.106666e-01	-4.339666830	-10.470803960	-1.247410e-01
## 220	4.707384e-01	-3.535587e+00	-3.851279158	-4.149762765	1.729786e-01
## 221	5.488067e-01	-2.410667e+00	-3.585318430	-3.934150358	1.585831e-01
## 222	6.113503e-01	-2.563405e+00	-0.787293740	-0.152323221	1.629024e-01
## 223	4.942726e-01	-3.683849e-01	-1.685751302	-1.900032493	9.085860e-02
## 224	4.787480e-01	-1.646044e+00	-2.153687340	-2.333817763	1.095733e-01
## 225	4.787480e-01	-1.646044e+00	-2.153687340	-1.333817763	1.095733e-01
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## 227	4.787480e-01	-1.646044e+00	-0.153687340	4.666182237	1.095733e-01
## 228	-9.707201e+00	-1.976311e-01	-2.303361881	-4.637351284	-9.444593e-02
## 229	1.057843e+01	1.837349e+00	2.089536673	1.453489650	-1.416575e+00
## 230	-3.566769e-01	-4.756491e+00	-5.663460179	-5.664337682	1.530924e+00
## 231	4.634706e-01	-1.672988e+00	-2.157999580	-3.168550667	7.424011e-02
## 232	4.787480e-01	-1.646044e+00	-3.153687340	-4.333817763	1.095733e-01
## 233	5.488067e-01	-2.410667e+00	-2.585318430	-2.934150358	1.585831e-01
## 234	5.565690e-01	-1.771837e+00	-0.351350411	1.282742277	1.492258e-01
## 235	4.164516e-01	-2.425911e-01	-2.488088231	-2.516592533	5.120614e-02
## 236	4.557083e-01	-2.311818e+00	-3.391967600	-3.385443302	8.359746e-02
## 237	5.182520e-01	-2.464556e+00	-2.593942910	-3.603616165	8.791673e-02
## 238	5.412916e-01	-1.798782e+00	-0.355662651	0.448009374	1.138926e-01
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## 240	5.257670e-01	-3.076441e+00	-2.823598689	-3.985775897	1.326073e-01
## 241	5.565690e-01	-1.771837e+00	-3.351350411	-3.717257723	1.492258e-01
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## 243	6.191126e-01	-1.924576e+00	-2.553325721	-2.935430586	1.535450e-01
## 244	6.191126e-01	-1.924576e+00	-1.553325721	-1.935430586	1.535450e-01
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## 246	5.960730e-01	-2.590350e+00	-0.791605980	-0.987056125	1.275692e-01
## 247	-8.505727e+00	-3.683849e-01	-3.685751302	-4.900032493	9.085860e-02
## 248	9.784077e+00	-2.158120e+01	-19.265804678	-13.459272164	-1.142209e+00
## 249	1.117481e+00	-7.855127e+00	-9.531055981	-7.259570439	1.325487e+00
## 250	1.818073e+00	-4.708810e+00	-6.595337140	-7.978031305	-4.777340e-02
## 251	1.840865e+00	1.670625e+01	14.179319321	8.474541867	3.225035e-02



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## 253 6.191126e-01 -1.924576e+00 -2.553325721 -2.935430586 1.535450e-01
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## 258 4.787480e-01 -1.646044e+00 21.846312660 21.666182237 1.095733e-01
## 259 2.416400e+01 1.735158e+01 7.308952572 6.107754199 -2.186655e-01
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## 308	4.372460e-01	-1.162446e+00	-0.905520358	1.061167016	-1.011308e-02
## 309	3.441476e-01	-1.063597e+00	0.287830472	1.609874072	-8.509874e-02
## 310	2.115453e-01	-1.146235e+00	-3.078563128	-3.571620470	-1.384278e-01
## 311	3.286230e-01	-2.341255e+00	-0.180105567	6.176088802	-6.638403e-02
## 312	-7.864841e+00	-2.809581e-01	-1.100124328	-2.745284988	-3.150938e-01
## 313	8.325901e+00	1.740915e+00	1.671949315	1.689522846	-1.358796e+00
## 314	-4.143836e-01	-4.198145e+00	-4.603948800	-3.898319646	1.016491e+00
## 315	2.432869e-01	-1.603577e+00	-1.752786717	-2.058311507	-1.507270e-01
## 316	2.585643e-01	-1.576632e+00	-1.748474477	-0.223578604	-1.153938e-01
## 317	2.432869e-01	-1.603577e+00	-0.752786717	1.941688493	-1.507270e-01
## 318	1.579509e-01	-8.658983e-01	-0.325467867	0.707288184	-2.350701e-01
## 319	9.540724e-02	-7.131598e-01	-0.123492557	-0.074538953	-2.393893e-01
## 320	4.814094e-02	-1.533477e+00	-0.917205006	0.978366814	-2.083754e-01
## 321	3.286359e-02	-5.604214e-01	0.078482754	3.143633910	-2.437086e-01
## 322	-6.023478e-02	-4.615722e-01	24.271833584	24.692340966	-3.186943e-01
## 323	2.357775e+01	1.871574e+01	9.940761047	11.186818695	-6.159192e-01
## 324	-2.117670e+00	-7.313427e+00	-12.118042441	-12.874229667	3.269316e+00
## 325	1.081920e-01	-3.522558e+00	-4.238516502	-8.312724406	-2.373033e-01
## 326	3.174284e-01	-3.054483e+00	-4.386937903	-5.358512979	-6.135611e-02
## 327	4.577931e-01	-3.333015e+00	-1.786576284	-2.960125802	-1.738438e-02
## 328	4.338138e-01	-2.236844e+00	0.121615324	1.743457871	-1.444251e-02
## 329	2.936964e-01	2.924025e-01	-2.015122496	-2.055876939	-1.124621e-01
## 330	3.251908e-01	-2.415653e+00	-2.152969884	-4.141620344	-7.071346e-02
## 331	3.635078e-01	-1.722935e+00	-1.910377385	-1.255261901	-9.404420e-03
## 332	3.482304e-01	-1.749879e+00	-0.914689625	0.910005195	-4.473762e-02
## 333	2.628944e-01	-1.012201e+00	3.512629225	11.675604887	-1.290806e-01
## 334	-1.014099e+01	2.091252e+00	-3.576120066	-8.043823485	-4.707720e-01
## 335	1.033153e+01	-8.412598e-02	0.819981161	-1.404658242	-1.617800e+00
## 336	-4.949568e-01	-5.499156e+00	-5.658430483	-7.637407359	1.385970e+00
## 337	3.635078e-01	-2.722935e+00	-3.910377385	-4.255261901	-9.404420e-03
## 338	4.808328e-01	-2.667241e+00	-2.548296025	-2.908500263	8.591461e-03
## 339	4.885951e-01	-2.028412e+00	-2.314328005	-2.691607627	-7.658943e-04
## 340	4.885951e-01	-2.028412e+00	-2.314328005	-2.691607627	-7.658943e-04
## 341	4.885951e-01	-2.028412e+00	-2.314328005	-1.691607627	-7.658943e-04
## 342	4.733177e-01	-2.055356e+00	-2.318640245	-2.526340531	-3.609909e-02
## 343	4.733177e-01	-2.055356e+00	-0.318640245	-0.526340531	-3.609909e-02
## 344	3.637551e-01	-4.722207e-01	-2.446753586	-3.656209534	-6.345233e-02
## 345	4.182891e-01	-2.514502e+00	-3.346320714	-3.690327400	4.272198e-03
## 346	4.808328e-01	-2.667241e+00	-1.548296025	-1.908500263	8.591461e-03
## 347	4.338138e-01	-1.236844e+00	-2.878384676	-3.256542129	-1.444251e-02
## 348	4.808328e-01	-2.667241e+00	-0.548296025	1.091499737	8.591461e-03
## 349	3.484777e-01	-4.991653e-01	-1.451065826	-2.490942438	-9.878553e-02
## 350	3.482304e-01	-1.749879e+00	-1.914689625	-2.089994805	-4.473762e-02
## 351	3.482304e-01	-2.749879e+00	-1.914689625	-2.089994805	-4.473762e-02
## 352	3.559927e-01	-1.111050e+00	-2.680721605	-2.873102169	-5.409497e-02
## 353	4.030118e-01	-2.541447e+00	-0.350632954	2.474939697	-3.106100e-02
## 354	-8.744621e+00	-4.003160e-01	-3.257714996	-5.942235382	-1.737712e-01
## 355	9.575739e+00	4.407586e-01	1.170856108	0.167990754	-1.336172e+00
## 356	-2.503139e-01	-4.867447e+00	-5.492639346	-5.859505204	1.311185e+00
## 357	4.885951e-01	-2.028412e+00	-2.314328005	-2.691607627	-7.658943e-04
## 358	4.885951e-01	-2.028412e+00	-2.314328005	-2.691607627	-7.658943e-04
## 359	4.885951e-01	-2.028412e+00	-2.314328005	-2.691607627	-7.658943e-04

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## 360 4.885951e-01 -2.028412e+00 -2.314328005 -2.691607627 -7.658943e-04
## 361 4.885951e-01 -2.028412e+00 -1.314328005 -0.691607627 -7.658943e-04
## 362 4.185364e-01 -1.263788e+00 -0.882696916 -0.091275033 -4.977571e-02
## 363 3.407154e-01 -1.137995e+00 -1.685033845 1.292164927 -8.942817e-02
## 364 2.871210e-01 -1.857658e+00 0.068061415 1.571073581 -1.860704e-01
## 365 1.622810e-01 -3.014668e-01 -3.064364165 -2.393528326 -2.487569e-01
## 366 2.563190e-01 -3.162261e+00 -2.404186863 -1.697444593 -2.026889e-01
## 367 2.718437e-01 -1.884602e+00 -1.936250825 -4.263659323 -2.214036e-01
## 368 3.176757e-01 -1.803769e+00 -2.923314105 -3.759460612 -1.154040e-01
## 369 3.877344e-01 -2.568392e+00 -3.354945194 -4.359793207 -6.639420e-02
## 370 4.655554e-01 -2.694186e+00 -2.552608265 -2.743233166 -2.674174e-02
## 371 4.733177e-01 -2.055356e+00 0.681359755 3.473659469 -3.609909e-02
## 372 2.631417e-01 2.385133e-01 -2.023746976 -3.725342746 -1.831285e-01
## 373 3.251908e-01 -2.415653e+00 -2.152969884 -2.141620344 -7.071346e-02
## 374 3.329531e-01 -1.776824e+00 -2.919001865 -3.924727708 -8.007082e-02
## 375 4.030118e-01 -2.541447e+00 -2.350632954 -2.525060303 -3.106100e-02
## 376 4.107741e-01 -1.902618e+00 1.883335065 8.691832332 -4.041836e-02
## 377 -8.915293e+00 1.075041e+00 -2.403077296 -4.411035999 -3.424572e-01
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## 389 4.808328e-01 -2.667241e+00 -2.548296025 -2.908500263 8.591461e-03
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## 402 4.107741e-01 -1.902618e+00 -2.116664935 -2.308167668 -4.041836e-02
## 403 4.107741e-01 -1.902618e+00 -2.116664935 -2.308167668 -4.041836e-02
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## 419 9.452085e+00 4.857186e-01 3.355582459 5.047232003 -1.481824e+00
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## 422 2.488040e-01 -2.550376e+00 -2.174531084 -5.315284861 -2.473795e-01
## 423 3.176757e-01 -1.803769e+00 -1.923314105 0.240539388 -1.154040e-01
## 424 2.871210e-01 -1.857658e+00 -0.931938585 0.571073581 -1.860704e-01
## 425 2.170623e-01 -1.093035e+00 -1.500307495 -1.828593824 -2.350802e-01
## 426 2.245774e-01 -1.704919e+00 -1.729963274 -0.210753556 -1.903897e-01
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## 430 -7.894437e-02 -5.629147e-01 -2.705342973 -2.460101082 -3.583569e-01
## 431 3.813335e-02 -2.757935e+00 -2.806885412 -3.712391811 -2.863131e-01
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## 433 2.868737e-01 -3.108372e+00 -2.395562383 -5.027978786 -1.320225e-01
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## 437 3.251908e-01 -2.415653e+00 -4.152969884 -6.141620344 -7.071346e-02
## 438 4.730705e-01 -3.306070e+00 -0.782264044 3.874607102 1.794882e-02
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## 443 2.628944e-01 -1.012201e+00 -1.487370775 -1.324395113 -1.290806e-01
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## 448 3.407154e-01 -1.137995e+00 23.314966155 24.292164927 9.105718e-01
## 449 2.402938e+01 1.822989e+01 11.302418395 13.445066287 3.979479e-01
## 450 -1.806153e+00 -6.270025e+00 -8.893122913 -9.415316886 3.185163e+00
## 451 1.433241e-01 -1.653523e+00 -1.505164521 -0.145022742 -2.343716e-01
## 452 1.128047e+00 -1.680468e+00 -1.509476761 -1.979755645 7.302952e-01
## 453 2.045083e-01 -1.811393e+00 0.293600616 -0.362682603 -2.330521e-01
## 454 1.102230e-01 -2.013132e-01 0.169799516 1.342181298 -2.250722e-01
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## 456 1.687732e-02 -1.353178e+00 -1.100473452 -0.708164013 -2.460099e-01
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## 480 -7.809335e+00 2.901145e+00 3.070064106 -6.754519984 -4.053989e-01
## 481 8.206433e+00 -2.820074e+00 -1.645551740 1.882800665 -1.206746e+00
## 482 -3.523015e-01 -3.865981e+00 -4.516944277 -4.534505163 9.997945e-01
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## 485 4.379713e-01 -2.188775e+00 -2.299388595 1.486997519 -1.140948e-01
## 486 3.768619e-01 -2.965531e-01 -0.316637555 -1.851934096 -2.554276e-01
## 487 2.823293e-01 -1.937187e+00 -1.904062454 -2.746122562 -1.933997e-01
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## 489 3.448729e-01 -1.089926e+00 -1.106037764 -2.964295425 -1.890804e-01
## 490 3.128840e-01 -2.883298e+00 -2.895437974 4.923343245 -1.227333e-01
## 491 2.532088e-01 3.748407e+00 3.868088796 -0.972692847 -4.010796e-01
## 492 -3.038898e-02 -1.173495e+00 -0.894185902 -3.655258247 -2.149960e-01
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## 495 2.197856e-01 2.155513e-01 0.297912857 0.472050301 -1.977189e-01
## 496 9.469833e-02 -4.789718e-01 -0.298136523 -2.091603973 -2.063575e-01
## 497 6.270938e-02 -2.272344e+00 -2.087536732 -0.203965303 -1.400103e-01
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## 499 -7.013677e+00 1.592933e+00 1.890902068 2.622370179 -3.166763e-01
## 500 6.939072e+00 3.867509e+00 5.195516840 6.095733863 -1.351998e+00
## 501 -8.950653e-01 -2.354646e+00 -2.389266186 -3.581991571 6.748557e-01
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## 508 -3.903736e-01 -2.301199e-01 0.321978200 1.488511836 -2.055784e-01
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## 516 -2.311467e+00 -2.644009e+00 -3.931551920 -6.142773967 3.057315e+00
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## 518 -6.606172e-01 2.743598e-01 1.153443333 2.209274241 -2.655179e-01
## 519 -6.758946e-01 2.474152e-01 1.149131093 1.374541338 -3.008511e-01
## 520 -6.758946e-01 9.247415e+00 10.149131093 9.374541338 -3.008511e-01
## 521 -1.223510e+00 -3.509944e-01 0.971221126 3.172830009 1.169561e+01

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## 522 -1.541153e-01 8.223247e+00 10.484437121 10.001691732 -2.103211e+00
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## 525 -6.605425e-01 8.711553e-03 0.934959510 1.652682766 -4.055313e-01
## 526 -6.605425e-01 8.711553e-03 0.934959510 1.652682766 -4.055313e-01
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## 531 -5.201778e-01 1.730179e+00 2.535321130 6.051069943 -3.615595e-01
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## 534 -6.132762e-01 -2.170971e+00 -1.271328040 -0.400223001 -4.365452e-01
## 535 -4.881889e-01 -4.764483e-01 0.324721339 0.163431273 -4.279067e-01
## 536 -4.729115e-01 -4.495037e-01 0.329033579 -1.001835824 6.074265e-01
## 537 -3.611183e-01 8.488528e-01 1.664807317 1.995519421 5.333603e-01
## 538 -4.236619e-01 -9.984088e-01 -0.133217372 1.213692285 5.290410e-01
## 539 -3.763956e-01 -1.780918e-01 0.660495077 2.160786518 4.980271e-01
## 540 -3.916730e-01 7.949636e-01 1.656182837 1.326053614 4.626939e-01
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## 547 -3.964500e-01 4.195710e-01 1.132110957 1.615237219 -3.559208e-01
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## 550 -5.215373e-01 7.250478e-01 1.536061578 1.051582945 -3.645594e-01
## 551 -5.688036e-01 -9.526916e-02 0.742349128 3.104488712 -3.335454e-01
## 552 -5.993583e-01 2.850842e+00 3.733724648 5.435022905 -4.042118e-01
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## 574 -2.033133e+00 -5.545461e+00 -6.391753000 -5.097558599 2.514068e+00
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## 586 -1.175523e+00 -1.855329e+00 0.571364092 -0.755915384 -4.707485e-01
## 587 -1.012119e+00 -1.468087e+00 -0.589994030 -0.305902668 -4.008009e-01
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## 593 -3.471780e-01 -8.139840e-01 -0.050002703 0.242570299 -3.792649e-01
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## 600 -2.540797e-01 2.087167e+00 2.756646466 2.693863243 -3.042792e-01
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## 607 7.506973e-01 3.462559e+00 4.280718347 3.404679639 5.143355e-01
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## 609 9.230510e-01 -2.260043e-02 0.670480175 -0.084571854 4.919601e-01
## 610 -1.442697e-01 7.547454e-01 1.348383606 0.422784613 -3.309739e-01
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## 625 -6.731904e-01 5.535415e-01 1.699598207 1.767135586 5.164341e-01
## 626 -6.731904e-01 -1.446459e+00 -0.300401793 -0.232864414 5.164341e-01
## 627 -5.481031e-01 2.480646e-01 1.295647587 1.330789860 5.250726e-01
## 628 -5.481031e-01 3.248065e+00 4.295647587 5.330789860 5.250726e-01
## 629 -7.510114e-01 -1.320665e+00 -0.102738722 0.150575546 -5.232184e-01

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## 631	-6.259241e-01	-1.626142e+00	-0.506689343	0.714229819	4.854201e-01
## 632	-5.161141e-01	4.143702e-02	1.085047796	1.443151190	4.587255e-01
## 633	-5.161141e-01	1.041437e+00	2.085047796	1.443151190	4.587255e-01
## 634	-5.633804e-01	2.211200e-01	1.291335347	1.496056956	4.897394e-01
## 635	4.366196e-01	2.211200e-01	1.291335347	1.496056956	4.897394e-01
## 636	-1.583435e+00	-1.181217e+00	-0.237048774	0.950507657	-3.642086e-01
## 637	-5.161141e-01	4.143702e-02	1.085047796	2.443151190	4.587255e-01
## 638	-5.313915e-01	6.014492e+00	7.080735556	6.608418286	4.233923e-01
## 639	-8.913760e-01	-5.042132e+00	-3.703100341	-3.247811632	4.328099e-01
## 640	4.838859e-01	-9.585630e-01	0.085047796	-0.556848810	4.587255e-01
## 641	-4.583474e-01	-4.866940e-01	0.359000606	0.514161931	-3.555700e-01
## 642	-4.583474e-01	-4.866940e-01	0.359000606	0.514161931	-3.555700e-01
## 643	-4.583474e-01	3.513306e+00	4.359000606	3.514161931	-3.555700e-01
## 644	-6.932447e-01	-2.848796e+00	-1.828785913	-0.778413713	6.624861e-01
## 645	-4.396526e-01	-8.948829e-02	0.888125174	0.060224232	4.953781e-01
## 646	2.457562e+01	2.393746e+01	24.892437414	24.894957136	5.307113e-01
## 647	-2.426782e+00	2.544748e+00	1.530241858	1.492373371	4.078350e+00
## 648	-9.587114e-01	-2.968923e+00	-1.473248900	-0.346834912	4.211613e-01
## 649	-7.238141e-01	-1.606822e+00	-0.285462382	-0.054259268	4.031052e-01
## 650	-5.987268e-01	8.770148e-02	1.310586997	1.509395006	4.117437e-01
## 651	4.012732e-01	-9.122985e-01	0.310586997	-0.490604994	4.117437e-01
## 652	-5.409602e-01	-3.440430e+00	-2.415460193	-1.419594253	-4.025518e-01
## 653	-3.686066e-01	-1.925589e+00	-1.025698364	-0.908845746	-4.249272e-01
## 654	-3.060629e-01	-7.832785e-02	0.772326325	-0.127018609	-4.206079e-01
## 655	-3.533292e-01	1.101355e+00	1.978613876	1.925887158	-3.895940e-01
## 656	-4.784165e-01	-5.931680e-01	0.382564496	1.362232884	-3.982325e-01
## 657	-4.936939e-01	2.379887e+00	3.378252256	3.527499980	-4.335657e-01
## 658	-6.813248e-01	-2.161897e+00	-1.015821812	-1.817981430	-4.465235e-01
## 659	-5.409602e-01	-4.404296e-01	0.584539807	0.580405747	-4.025518e-01
## 660	-5.409602e-01	5.595704e-01	1.584539807	1.580405747	5.974482e-01
## 661	-5.222653e-01	-1.043224e+00	0.113664375	1.126468048	4.483964e-01
## 662	-4.749990e-01	-2.229068e-01	0.907376825	0.073562282	4.173824e-01
## 663	-4.597216e-01	-2.195962e+00	-1.088310935	-0.091704815	4.527156e-01
## 664	-3.499117e-01	4.716163e-01	1.503426204	1.637216555	1.426021e+00
## 665	6.687832e-01	8.688221e-01	2.032550772	2.183278856	1.276969e+00
## 666	-4.138148e-01	-3.807767e-01	0.706141962	0.855902420	4.187018e-01
## 667	-4.138148e-01	-3.807767e-01	0.706141962	-0.144097580	4.187018e-01
## 668	-3.985375e-01	-3.538322e-01	0.710454202	0.690635324	4.540350e-01
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## 676	-5.861684e-01	-8.956169e-01	0.316380134	0.345153913	4.410773e-01
## 677	-5.236248e-01	-2.048355e+00	-0.885595177	1.126981050	-5.546035e-01
## 678	-5.103307e-01	-6.521887e-01	0.374680464	0.693280079	5.281013e-01
## 679	-4.290922e-01	8.592279e+00	9.701829722	9.021169517	3.833686e-01
## 680	-9.767077e-01	-6.130972e-03	1.523919756	0.819458188	3.798285e-01
## 681	-8.988867e-01	-2.131925e+00	-0.673743314	0.436018229	4.194809e-01
## 682	-7.265331e-01	-3.617085e+00	-2.283981486	-2.053233264	3.971055e-01
## 683	-4.763585e-01	-1.228038e+00	-0.091882727	-0.925924717	4.143826e-01



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## 684 -3.985375e-01 4.646168e+00 5.710454202 5.690635324 4.540350e-01
## 685 -7.112557e-01 -3.590140e+00 -2.279669246 -1.218500361 4.324387e-01
## 686 -4.763585e-01 -1.228038e+00 -0.091882727 0.074075283 4.143826e-01
## 687 -4.138148e-01 1.619223e+00 2.706141962 0.855902420 4.187018e-01
## 688 -5.083474e-01 3.978589e+00 5.118717063 5.961713954 4.807297e-01
## 689 -7.737994e-01 4.562598e+00 5.922306065 5.999672503 4.281195e-01
## 690 -1.023974e+00 -3.826448e+00 -2.269792694 -2.127636045 4.108424e-01
## 691 -7.112557e-01 1.409860e+00 2.720330754 5.781499639 -5.675613e-01
## 692 1.109913e+01 1.123730e+01 -1.417779913 -5.832415646 4.668525e-01
## 693 -3.904938e+00 -3.613385e+00 -8.291157099 -8.568468764 1.395371e+00
## 694 -7.920102e+00 -5.161916e+00 -3.171490824 -2.457466508 -6.722732e-01
## 695 -2.901781e+00 -3.844974e-01 3.505622949 2.388602252 -1.503007e+00
## 696 -5.077427e-01 1.601776e+00 1.615740873 2.322610954 -7.897178e-01
## 697 2.802834e-01 1.411032e+00 0.960069511 0.852251603 -3.678192e-01
## 698 2.524667e-01 3.698659e-01 0.197717371 0.089809668 -2.124098e-01
## 699 8.313651e+00 1.021200e+01 -0.003517491 -0.127850193 -2.110903e-01
## 700 1.136777e+00 1.447135e+00 -5.771505508 -6.878830801 1.052219e+00
## 701 -1.219451e+00 2.234937e-02 -4.677642877 -4.966018690 7.274350e-02
## 702 1.097860e+01 1.319128e+01 -3.027024202 -3.330905245 -3.814885e-01
## 703 -1.408617e+00 4.939804e-01 8.259953005 8.954344038 1.472748e+00
## 704 1.401919e+00 1.028698e+00 1.335501336 1.190146855 -5.835862e-01
## 705 1.272810e+00 2.340727e+00 -0.282384182 -0.445733817 -1.373921e-01
## 706 -6.281088e-01 1.084991e-01 -1.386757964 -1.531731445 -1.066812e-01
## 707 1.534368e+00 2.597434e+00 -0.732459449 -0.875952569 -3.961465e-01
## 708 4.947873e+01 5.451510e+01 -2.257163728 -3.400836438 -8.532765e-02
## 709 1.323461e+01 1.541733e+01 -40.652032025 -39.899991924 7.468440e+00
## 710 -3.813599e+01 -3.300374e+01 -35.734163460 -35.776881946 2.527617e+00
## 711 -2.276594e+01 -9.495923e+00 0.837001086 0.723600179 -5.906535e+00
## 712 -3.279954e+00 3.559222e+00 7.866602497 7.760169621 -4.294570e+00
## 713 1.657927e+00 2.525608e+00 2.611365210 2.502471833 -1.154479e+00
## 714 3.203863e+00 2.859768e+00 -0.315117339 -0.444966591 -1.293542e-01
## 715 -3.737164e+00 -2.177135e+00 -2.476259362 -2.622062818 1.934608e-01
## 716 -3.336522e+00 -7.145951e-01 0.885426069 -0.240071897 -8.423405e-01
## 717 -4.892727e-01 6.361785e-02 1.961378935 1.681425860 -8.296803e-01
## 718 2.274774e+00 5.969045e+00 1.213899180 0.914650182 -4.048398e-01
## 719 -4.831963e+00 -2.070942e+00 -1.775061296 -2.023353528 8.946045e-02
## 720 -4.847430e-01 1.882964e-01 2.021827016 2.793189889 -9.570177e-01
## 721 -8.094498e-01 1.461141e+00 1.176853783 1.080684504 -4.321351e-01
## 722 -8.172122e-01 -1.776881e-01 0.942885764 0.863791869 -4.227777e-01
## 723 1.905502e-01 -5.388588e-01 1.176853783 0.080684504 -4.321351e-01
## 724 1.193535e+00 7.245779e-01 0.886749922 0.586760744 -2.601072e-01
## 725 -2.773097e+00 -1.474459e+00 -0.076837080 -0.393341052 -1.033784e-01
## 726 -1.562749e+00 -5.420201e-01 1.868197696 1.570429058 -6.943051e-01
## 727 -6.974093e-01 1.010212e+00 1.976251320 1.677092116 -5.602492e-01
## 728 -1.786410e+00 -8.730849e-01 1.415134042 1.132310043 -4.061593e-01
## 729 1.824141e+01 1.916808e+01 2.177486182 1.894751977 -5.615687e-01
## 730 -1.236835e+01 -1.185855e+01 -12.634353727 -11.919534216 2.535943e+00
## 731 -5.534111e+00 -2.787784e+00 1.963043469 1.862493481 -1.958814e+00
## 732 -1.253072e+00 1.408905e+00 3.172482488 2.047253906 -1.308569e+00
## 733 -2.705172e+00 -1.628618e+00 1.742283300 1.460199481 -5.508919e-01
## 734 2.692232e-01 2.092482e-01 2.939838321 2.657193912 -7.169781e-01
## 735 -1.913308e+00 -1.682024e+00 1.757155685 1.455865737 -2.814608e-01
## 736 4.195747e+00 2.603610e+00 2.846657083 2.546197109 -5.816028e-01
## 737 -5.009050e+00 -2.569031e+00 -0.824316834 -0.160116731 3.214621e-01

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## 738	-5.301553e-01	-1.254609e-01	3.154621716	3.043687388	-1.031100e+00
## 739	-8.473471e-01	5.354991e-01	2.079992703	1.949022271	-4.615266e-01
## 740	4.144891e+00	3.896670e+00	1.846024684	1.732129636	-4.521692e-01
## 741	-4.986430e+00	-3.670334e+00	-1.731767994	-1.863187401	3.155204e-01
## 742	-4.767334e-01	7.783981e-02	2.719418834	2.609134891	-1.020423e+00
## 743	-7.939252e-01	-2.612001e-01	1.644789822	1.514469775	-4.508498e-01
## 744	-7.939252e-01	7.387999e-01	1.644789822	1.514469775	-4.508498e-01
## 745	-8.016875e-01	-1.900029e+00	1.410821802	1.297577139	-4.414925e-01
## 746	-7.861629e-01	-6.223708e-01	1.878757841	1.731362410	-4.602072e-01
## 747	-7.861629e-01	-1.622371e+00	1.878757841	1.731362410	-4.602072e-01
## 748	1.722160e+01	2.001646e+01	2.112725860	1.948255045	-4.695645e-01
## 749	-2.030239e+01	-2.064103e+01	-12.311516709	-12.426377681	2.355877e+00
## 750	6.961849e-01	4.180378e+00	8.295828604	8.178921593	-3.211446e+00
## 751	-8.473471e-01	-4.645009e-01	2.079992703	1.949022271	-4.615266e-01
## 752	-8.473471e-01	-4.645009e-01	2.079992703	1.949022271	-4.615266e-01
## 753	1.526529e-01	-4.645009e-01	2.079992703	1.949022271	-4.615266e-01
## 754	-1.867401e+00	1.331619e-01	1.551608583	1.403472972	-3.154745e-01
## 755	-7.738709e-01	-8.588629e-01	2.173173942	2.060019074	-5.969019e-01
## 756	1.526529e-01	5.354991e-01	2.079992703	1.949022271	-4.615266e-01
## 757	1.248363e-01	4.943325e-01	1.317640564	1.186580337	-3.061172e-01
## 758	1.782581e-01	1.697633e+00	0.882437682	0.752027840	-2.954404e-01
## 759	3.223918e+00	4.262105e+00	0.213266781	0.100582708	-2.754063e-01
## 760	-5.806110e+00	-4.658094e+00	-2.508992519	-2.621295592	2.014987e-01
## 761	1.657927e+00	2.525608e+00	2.611365210	2.502471833	-1.154479e+00
## 762	5.203863e+00	4.859768e+00	-0.315117339	-0.444966591	-1.293542e-01
## 763	-3.792797e+00	-3.259468e+00	-3.000963641	-4.146946687	5.042796e-01
## 764	-5.261420e+00	-2.850652e+00	0.689243895	0.377514147	-1.808688e+00
## 765	-1.455053e+00	7.384823e-01	2.958439542	2.661273432	-9.974469e-01
## 766	-7.599530e-01	1.629502e-01	1.178226630	1.895264979	-5.645685e-01
## 767	1.983125e-01	9.997052e-02	1.410821802	1.297577139	-4.414925e-01
## 768	3.178258e+00	2.697633e+00	1.882437682	0.752027840	-2.954404e-01
## 769	1.511649e+01	2.123478e+01	-1.165598029	-1.483159423	1.937638e-01
## 770	-1.805020e+01	-1.727900e+01	-11.458443345	-12.672028434	2.157528e+00
## 771	2.643741e+00	5.220052e+00	4.080066092	4.674364631	-2.810889e+00
## 772	-6.831374e-01	1.649353e+00	-1.414438433	-1.695718314	-6.630993e-02
## 773	-5.284227e-01	4.994581e-01	-0.994107937	-1.256832073	-3.464178e-01
## 774	-5.206603e-01	1.138287e+00	-0.760139917	-1.039939438	-3.557752e-01
## 775	-5.206603e-01	1.138287e+00	-0.760139917	-1.039939438	-3.557752e-01
## 776	-1.520660e+00	1.382874e-01	-0.760139917	-1.039939438	-3.557752e-01
## 777	-4.928437e-01	1.179454e+00	0.002212222	-0.277497503	-5.111846e-01
## 778	-2.574082e+00	-6.501332e-02	-0.324937036	-0.605386941	-3.664519e-01
## 779	-5.262112e-01	1.378490e+00	0.965799224	0.702604292	-6.679134e-01
## 780	2.311312e+00	3.889556e+00	0.311500708	0.046825417	-3.784482e-01
## 781	-7.721382e-01	7.660561e-01	-1.975555711	-2.240500387	8.778005e-02
## 782	3.471577e+00	4.499458e+00	-0.994107937	-1.256832073	-3.464178e-01
## 783	-1.631927e+00	9.736212e-01	-2.809548476	-3.089707176	2.658624e-01
## 784	-2.341700e+00	-4.854605e+00	-0.536623994	-0.797534626	-4.727967e-01
## 785	-3.832748e-01	-1.031024e+00	1.266714453	1.918988480	1.300654e+00
## 786	-3.907899e-01	-4.191396e-01	3.496370233	3.301148211	1.255963e+00
## 787	-5.003526e-01	-8.360040e-01	-1.631743108	-1.828720792	-7.713901e-01
## 788	-4.437042e-01	-4.912097e-01	-0.029814943	-0.224761661	5.727816e-01
## 789	-3.624657e-01	7.532576e-01	4.297334315	4.103127777	1.428049e+00
## 790	4.918851e-01	-1.474833e+00	3.134288873	2.954386573	3.237967e+00
## 791	-4.127112e-01	2.042161e+00	31.930114617	31.716574283	3.007152e+01

## 792	2.500217e-01	-7.377695e-02	-0.969253657	-1.136299905	3.650457e+00
## 793	-4.159930e+00	-3.602423e+00	2.168847445	1.990387634	3.167133e+00
## 794	-1.154492e+00	4.181033e-01	1.165885653	0.988335627	1.791320e-01
## 795	-4.292008e-01	-1.848669e+00	1.224508319	1.063331368	1.114591e+00
## 796	-4.401333e-01	-6.070459e-01	2.929351770	2.734161702	3.254286e+00
## 797	-1.332438e+00	-3.265435e-01	2.019593616	1.825006077	1.951144e+00
## 798	-1.338840e+00	-9.602413e-01	0.784885148	0.607600439	9.635012e-01
## 799	-3.639381e-01	8.855084e-03	0.021052112	0.844132501	1.124910e+00
## 800	-3.508913e-01	-8.456923e-01	-0.182296045	-1.188620837	-7.383371e-01
## 801	-4.355474e-01	5.395792e-01	0.965742369	0.772160327	5.907806e-01
## 802	1.583147e+00	1.936785e+00	9.494866937	9.318222628	9.441729e+00
## 803	-1.234371e+00	-8.212325e-01	0.837995947	0.659933187	1.326864e+00
## 804	-3.388404e-01	-9.602413e-01	1.784885148	1.607600439	1.963501e+00
## 805	-3.575353e-01	6.425529e-01	-0.744239420	-0.938461862	-8.874469e-01
## 806	-4.446692e-01	-1.104382e+00	-0.267485202	-0.444219306	-1.402862e+00
## 807	-1.518145e+00	-7.100196e-01	-2.360666441	-2.555216109	-2.267487e+00
## 808	-4.697669e-01	-1.135285e+00	-1.031318238	-1.207687244	-1.241453e+00
## 809	-4.620046e-01	5.035441e-01	-0.797350219	-0.990794609	-1.250810e+00
## 810	5.302331e-01	-1.352852e-01	2.968681762	2.792312756	2.758547e+00
## 811	-3.839925e-01	-3.934821e-01	2.492667992	2.298583202	2.709623e-01
## 812	-5.200123e-01	-8.463817e-01	1.601462064	1.405759262	4.020183e-01
## 813	4.799877e-01	1.536183e-01	10.601462064	10.405759262	9.402018e+00
## 814	-2.309714e+00	-1.563233e+00	-3.293056787	-3.490088245	-1.868255e+00
## 815	-3.903953e-01	-2.717999e-02	0.257959525	0.081177565	2.833195e-01
## 816	-4.168525e-01	-6.321507e-02	0.494866937	0.318222628	1.441729e+00
## 817	-1.335614e+00	-8.187477e-01	1.822016195	1.646112066	1.296996e+00
## 818	-3.625787e-01	1.398657e-02	2.020311664	1.843619499	1.127910e+00
## 819	-4.438172e-01	7.695192e-01	1.693162406	1.515730061	1.272643e+00
## 820	-4.515795e-01	-8.693101e-01	0.459194387	0.298837426	2.820001e-01
## 821	-4.702744e-01	-1.266516e+00	0.930069819	0.752775125	-5.689480e-01
## 822	-5.437506e-01	-8.721538e-01	-1.163111420	-1.358221678	-2.433573e+00
## 823	-1.596665e+00	-9.442240e-01	-2.689296595	-2.884131551	-2.116754e+00
## 824	1.532952e+00	1.874978e+00	4.967200866	4.791286752	4.764547e+00
## 825	-1.363938e+00	8.855084e-03	0.021052112	-0.155867499	1.249103e-01
## 826	-3.967982e-01	-6.608778e-01	-0.976748943	-1.136228072	-1.704323e+00
## 827	-5.231887e-01	-3.385860e-01	-1.596115357	-1.773134748	-1.252130e+00
## 828	5.315926e-01	8.698463e-01	0.967941314	0.791799754	-2.384529e-01
## 829	-5.245482e-01	-3.437175e-01	2.404625092	2.227378254	7.448706e-01
## 830	-5.264152e-01	-4.800796e-01	3.366753596	3.188353625	2.414376e+00
## 831	-4.735008e-01	-4.080094e-01	5.892938772	5.714263498	4.097557e+00
## 832	-4.753678e-01	-1.544371e+00	1.855067277	1.675238869	2.767062e+00
## 833	1.615500e+00	1.475287e+00	13.454056049	13.259045571	1.094347e+01
## 834	-1.338039e+00	-7.356297e-01	-3.094020870	-3.292067810	-4.034123e-02
## 835	6.894837e-01	2.212156e+00	12.585849231	12.409580005	1.113559e+01
## 836	7.824567e-01	4.396112e-01	14.329249020	14.166970859	1.384732e+01
## 837	8.399070e-01	9.017079e-03	15.052271168	14.871261740	1.518765e+01
## 838	-1.100776e+00	-2.852149e-01	1.813164810	1.614577250	2.858471e+00
## 839	-3.169692e-01	-7.083130e-02	4.511587137	4.332556751	2.468597e+00
## 840	-5.059034e-01	-5.958010e-01	4.094196033	3.913822938	3.916472e+00
## 841	-1.424665e+00	-2.351334e+00	-0.578654709	-0.758287624	-1.228261e+00
## 842	-2.521372e+00	-1.851513e+00	-4.397797488	-4.593727736	-4.600981e+00
## 843	1.448995e+00	1.620247e+00	7.641532504	7.464423318	7.903280e+00
## 844	7.127145e-01	1.106697e+00	5.311810771	5.134023314	5.643683e+00
## 845	-2.886450e-01	-8.984341e-01	5.312551220	5.134536316	4.640683e+00

## 846	-3.356640e-01	-1.468037e+00	3.982462569	3.786494450	3.617649e+00
## 847	-3.543589e-01	1.134757e+00	0.453338000	0.240432149	-1.233299e+00
## 848	-1.556951e+00	-5.315091e-01	-1.394117647	-1.573062306	-1.436215e+00
## 849	-5.085723e-01	-9.567747e-01	-0.064769444	-0.225533441	-4.101809e-01
## 850	-5.008100e-01	-1.317945e+00	2.169198575	1.991359194	5.804617e-01
## 851	-5.213718e-01	-1.851513e+00	2.602202512	2.406272264	1.399019e+00
## 852	-4.871523e-01	-1.176649e+00	1.599263119	1.386119836	2.312519e-01
## 853	-5.136095e-01	-1.212684e+00	0.836170531	0.623164900	-6.103388e-01
## 854	-1.540067e+00	-1.248719e+00	0.073077944	-0.139790037	-1.451930e+00
## 855	4.535305e-01	-8.824168e-01	15.838369476	15.642804326	1.556043e+01
## 856	-2.608843e+01	-2.549976e+01	-21.916476572	-22.130531489	-2.381439e+01
## 857	-4.349780e-01	-2.782387e+00	4.071264541	3.879819459	3.829701e+00
## 858	-1.364672e+00	-1.296296e+00	-0.896742750	-1.121460769	-2.175337e+00
## 859	-5.033608e-01	-1.101689e-01	-0.946914155	-1.153641088	-2.370934e+00
## 860	-1.564037e+00	-1.821068e+00	-1.707067350	-1.896443596	-3.044758e+00
## 861	-5.626780e-01	-8.159369e-01	-2.707807798	-2.896956598	-3.041758e+00
## 862	-5.343538e-01	-6.435397e-01	1.093156285	0.905022967	-8.696726e-01
## 863	-5.362208e-01	-7.799018e-01	1.055284790	0.865998338	-2.001677e-01
## 864	-5.097636e-01	2.561333e-01	5.818377377	5.628953275	3.641423e+00
## 865	-4.664786e-01	-1.446988e+00	0.072723038	-0.101054117	3.466869e-03
## 866	5.166936e-01	-7.078317e-01	6.581469965	6.391908211	5.483014e+00
## 867	-3.710749e-01	7.000650e-02	-0.131451217	-0.338866406	-1.162980e+00
## 868	-5.111231e-01	-1.748998e+00	-1.180882174	-1.370533724	-2.361577e+00
## 869	-5.562752e-01	-1.182239e+00	1.526900670	1.320449039	-5.411564e-02
## 870	-1.503361e+00	-1.101689e-01	-2.946914155	-3.153641088	-3.370934e+00
## 871	-5.156590e-01	-1.246334e+00	-2.377719147	-2.548914732	-3.018724e+00
## 872	-5.343538e-01	-6.435397e-01	-1.906843715	-2.094977033	-1.869673e+00
## 873	-4.531153e-01	-3.990724e-01	-0.579694457	-0.767087595	-2.014405e+00
## 874	-5.078967e-01	3.924953e-01	4.856248873	4.667977903	2.971918e+00
## 875	-4.381544e-01	-2.745908e-01	-0.126312879	-0.299074552	-8.244473e-01
## 876	-5.175260e-01	-1.382696e+00	0.584409358	0.412060639	-3.492196e-01
## 877	4.902364e-01	2.561333e-01	4.818377377	4.628953275	3.641423e+00
## 878	-4.317516e-01	3.591070e-01	3.108395588	2.918331086	3.163196e+00
## 879	-3.582754e-01	-1.035255e+00	8.201576827	8.029327888	7.027820e+00
## 880	-2.994656e-01	-4.607176e-01	6.923858527	6.733105768	6.371149e+00
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## 882	5.070643e-01	-4.830231e-01	-0.690369549	-0.864009053	-8.381239e-01
## 883	-5.375803e-01	-7.850333e-01	2.056025238	1.866511340	7.968325e-01
## 884	-4.846659e-01	-7.129631e-01	2.582210413	2.392421213	1.480014e+00
## 885	-4.582087e-01	1.323072e+00	6.345303001	6.155376149	6.321605e+00
## 886	7.133339e-01	1.434021e+00	6.256886571	6.101300062	5.561950e+00
## 887	1.063074e+01	4.184422e+00	27.930477761	27.773923626	2.770368e+01
## 888	4.987604e+00	5.032202e+00	298.733509876	298.453274331	2.967043e+02
## 889	2.239141e+00	1.502170e+00	-47.918133820	-48.204363052	-2.218505e+01
## 890	-3.447578e+01	-3.370165e+01	-36.853152391	-36.131528426	-3.514193e+01
## 891	-1.204343e-01	-7.275263e-01	-1.428631044	-2.491875077	-5.093326e+00
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## 893	-4.792914e-01	-1.477797e+00	8.816641980	8.583439460	6.498747e+00
## 894	-2.430437e-01	-1.289843e+00	11.646603773	11.411009258	9.742569e+00
## 895	-5.165539e+00	-3.318100e+00	-8.101989959	-8.339150561	-7.063154e+00
## 896	-2.363495e+00	-1.188452e+00	-2.073501381	-2.255028774	-3.250228e+00
## 897	6.550223e+00	7.938514e+00	54.363900446	54.199163149	5.190986e+01
## 898	-1.359588e+00	-3.495487e+00	-15.890738747	-16.048080402	-9.415958e+00
## 899	-3.305030e+00	-1.356585e+00	-2.273255347	-2.471662631	-3.254908e+00

## 900	-2.371257e+00	-1.827282e+00	-1.307469400	-1.471921409	-1.240871e+00
## 901	-1.342081e+00	-7.809835e-01	-1.545857709	-1.709992476	-1.393280e+00
## 902	-3.671789e-01	-8.118871e-01	0.690309256	0.526539585	7.681287e-01
## 903	-3.329594e-01	-1.370227e-01	2.687369863	2.506387157	2.600362e+00
## 904	-2.800451e-01	-6.495253e-02	2.213555038	2.032297030	2.283544e+00
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## 906	-2.878074e-01	2.962181e-01	1.979587018	1.815404394	2.292901e+00
## 907	7.712193e+00	9.296218e+00	14.979587018	15.815404394	1.729290e+01
## 908	-2.695991e-02	-7.414976e-01	13.216991798	12.238436429	1.316142e+01
## 909	-4.973435e+00	-2.673583e+00	2.376589674	2.191860282	2.358634e+00
## 910	-1.692292e-01	-1.314192e+00	-0.474568213	-0.624199182	1.170718e+00
## 911	-2.841235e-01	-1.080347e+00	0.215776382	0.033836035	2.745441e-01
## 912	-3.292756e-01	4.864122e-01	2.923559226	2.724818798	1.582005e+00
## 913	-3.653620e-01	-1.324814e+00	0.888627124	0.705946597	1.419277e+00
## 914	-3.028184e-01	-4.775527e-01	1.686651814	2.487773734	4.235960e-01
## 915	-2.399334e+00	-1.748965e+00	-1.644809684	-2.674848607	-1.467005e+00
## 916	-3.343189e-01	-1.142154e+00	-0.311889689	-0.493099841	-1.402638e+00
## 917	-1.434252e+00	-7.838272e-01	-2.168163516	-2.367051580	-2.108853e+00
## 918	-3.858738e-01	-2.090928e-01	1.161184687	0.980477284	-8.281945e-02
## 919	-2.441420e+01	-2.338149e+01	-6.639779395	-6.821502281	-6.254905e+00
## 920	-8.583222e-01	-4.010011e-02	-4.591794922	-4.752583605	-3.011242e+00
## 921	-1.306735e+00	-6.475649e-01	-0.565109359	-0.723330526	-1.315285e+00
## 922	-3.866139e-01	1.130992e-01	1.107000935	0.948267034	1.832448e+00
## 923	-1.278918e+00	3.936016e-01	-0.802757220	-0.960888592	5.293059e-01
## 924	-2.305397e-01	9.683360e-01	0.526590983	0.386640273	5.553397e-01
## 925	-3.117782e-01	7.238687e-01	0.199441725	0.058750835	7.000723e-01
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## 927	-2.853210e-01	7.599038e-01	0.962534313	0.821705771	1.541663e+00
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## 936	-3.665595e-01	-4.845636e-01	-2.364614945	-2.506183667	-1.313604e+00
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## 938	7.790896e-01	1.743527e+00	10.798430497	10.642557537	9.876477e+00
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## 942	-3.021489e-01	4.990601e-01	0.471281239	0.314668099	2.121002e-02
## 943	-3.304730e-01	3.266629e-01	-0.329682843	-0.487311466	-1.508758e-01
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## 959	-3.569302e-01	1.290628e+00	2.907224569	2.749733597	7.533401e-03
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## 980	-1.382422e+00	-1.322353e-01	0.381802241	0.206236306	1.415861e-01
## 981	-3.094538e-01	3.421721e-01	0.436371537	0.277695478	-3.212844e-01
## 982	-3.906923e-01	9.770477e-02	1.109222279	0.949806040	8.234482e-01
## 983	-3.642351e-01	1.337398e-01	-0.127685133	-0.287239024	-3.349610e-01
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## 998	-4.518765e-01	2.555747e-01	0.310457141	0.167465901	-1.778712e-01
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## 1032 -1.164016e+00 2.775677e-01 1.277305050 1.509329173 1.913295e+00
## 1033 -1.361998e-01 1.318734e+00 2.039657190 2.271771108 2.757885e+00
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## 1035 -6.887911e-02 1.541389e+00 1.361753760 2.764414640 3.580819e+00
## 1036 -2.937512e-02 1.722876e+00 1.921498190 2.494616238 2.559163e+00
## 1037 -1.106136e-01 1.478409e+00 1.594348932 2.166726800 2.703895e+00
## 1038 1.889386e+00 3.478409e+00 3.594348932 1.166726800 2.703895e+00
## 1039 -1.229978e+00 6.004502e-02 0.954468032 2.016172639 1.093361e+00
## 1040 -1.217438e+00 7.426699e-02 -0.287492068 0.943881670 1.902618e+00
## 1041 -9.533629e-02 1.505353e+00 1.598661172 2.001459704 2.739229e+00
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## 1043 -2.416649e-01 9.197239e-01 1.157075742 3.048412975 1.959608e+00
## 1044 1.782562e+00 3.074267e+00 3.712507932 1.943881670 1.902618e+00
## 1045 -3.520796e-01 6.289586e-01 1.068314792 0.958594605 1.256750e+00
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## 1047 7.291590e-01 1.873426e+00 1.395464050 1.286484043 1.112017e+00
## 1048 -2.986577e-01 8.322593e-01 1.633111911 0.524042108 2.674267e-01
## 1049 -3.381617e-01 6.507717e-01 1.073367480 0.793840510 2.890832e-01
## 1050 -3.381617e-01 6.507717e-01 1.073367480 0.793840510 2.890832e-01
## 1051 -1.338162e+00 -3.492283e-01 -0.926632520 0.793840510 2.890832e-01
## 1052 -3.231337e+00 -1.945086e+00 -1.044791519 1.016685641 1.090361e+00
## 1053 2.931121e+00 4.541389e+00 5.361753760 2.764414640 3.580819e+00
## 1054 -1.270841e+00 -1.265741e-01 0.395464050 1.286484043 1.112017e+00
## 1055 -2.035204e-01 1.096080e+00 1.717560620 1.779127575 1.934951e+00
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## 1066	7.277995e-01	1.868294e+00	2.396204498	1.286997044	1.109017e+00
## 1067	-3.395212e-01	6.456402e-01	1.074107929	0.794353512	2.860834e-01
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## 1077	-1.329701e+00	-3.504008e-01	1.833628724	1.723088547	1.089341e+00
## 1078	-3.018842e-01	6.907658e-01	1.595980864	2.485530481	1.933932e+00
## 1079	-1.262380e+00	-1.277466e-01	1.155725294	1.215732079	1.912275e+00
## 1080	8.202178e-01	2.121852e+00	3.482134104	2.543108515	2.770542e+00
## 1081	-2.471028e-01	8.991980e-01	3.160037534	2.050464983	1.947608e+00
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## 1088	-3.241500e-01	4.093962e-01	0.107689583	-1.019455184	-1.598521e+00
## 1089	-3.901111e-01	1.918734e-01	-0.215147435	-0.512611718	-1.418455e+00
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## 1095	-1.384313e+00	2.023845e-01	-1.477462778	0.343896919	-1.160364e+00
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## 1099	-1.351967e+00	3.682296e-01	-0.654662557	-1.781897118	-2.443111e+00
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## 1116 -4.437803e-01 7.378586e-01 -0.243568352 -0.677111588 -1.375084e+00
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## 1124 -1.442421e+00 7.429901e-01 -0.244308800 -0.677624590 -1.372084e+00
## 1125 -4.223664e-01 1.145327e+00 0.284075320 -1.132075291 -1.518136e+00
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## 1132 -4.624751e-01 3.406529e-01 -0.772692920 -0.223173890 -1.226032e+00
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## 1214 -3.506071e-01 3.733611e-01 -0.655403005 -0.782410120 -1.440111e+00
## 1215 -1.350607e+00 3.733611e-01 -0.655403005 -0.782410120 -1.440111e+00
## 1216 -3.305528e-01 7.756983e-01 -0.127018884 -1.236860821 -1.586163e+00
## 1217 -1.396514e+00 5.581756e-01 -0.449855902 -0.730017355 -1.406098e+00
## 1218 -3.764596e-01 9.605128e-01 0.078528218 -1.184468056 -1.552150e+00
## 1219 -4.424208e-01 7.429901e-01 -0.244308800 -1.677624590 -2.372084e+00
## 1220 -5.083820e-01 5.254674e-01 -0.567145818 -1.170781125 -2.192018e+00
## 1221 -1.508382e+00 5.254674e-01 -0.567145818 -1.170781125 -2.192018e+00
## 1222 -1.488328e+00 9.278046e-01 -0.038761698 -0.625231826 -1.338070e+00
## 1223 -2.468273e+00 1.330142e+00 0.489622422 -1.079682526 -1.484122e+00

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## 1224	5.058742e-01	9.172935e-01	1.223553645	-1.481740462	-1.596160e+00
## 1225	3.616599e-01	7.187402e-01	0.283463508	1.203289805	-9.933407e-02
## 1226	-3.526472e+00	7.514484e-01	0.400753424	0.644053574	-3.134137e-01
## 1227	-4.003479e-01	2.175983e+00	2.308742802	-1.226141993	-9.316356e-01
## 1228	4.017686e-01	1.523415e+00	0.340231749	0.294388403	-3.914382e-01
## 1229	1.421218e+00	3.025651e-01	0.371592059	0.479040702	-2.670427e-01
## 1230	4.548330e-01	3.542427e-01	-0.128371145	0.097991273	-1.164362e+00
## 1231	-4.992602e-01	1.169428e+00	-0.333918247	0.045598509	-1.198376e+00
## 1232	-4.410613e-01	7.481216e-01	0.754950752	-0.678137592	-1.369084e+00
## 1233	-2.480565e+00	5.666339e-01	0.195206321	0.591660810	-3.474274e-01
## 1234	-3.374495e+00	1.588831e+00	1.574811580	-1.824084057	-1.819597e+00
## 1235	-5.122159e-01	2.143275e+00	1.191452887	-0.666905763	-7.175560e-01
## 1236	2.395366e+00	8.897168e-01	1.105523281	0.076982766	-3.790810e-01
## 1237	3.429650e-01	1.321534e+00	-0.245661060	0.657227504	-9.502822e-01
## 1238	-5.529293e-01	7.154133e-01	-0.362339164	0.881098638	-1.550044e-01
## 1239	-1.421007e+00	1.150459e+00	0.283334872	-1.132588293	-1.515136e+00
## 1240	5.330862e-01	1.335273e+00	0.488881974	-1.080195528	-1.481122e+00
## 1241	-5.529293e-01	7.154133e-01	-0.362339164	-0.118901362	-1.155004e+00
## 1242	-3.486968e+00	9.329361e-01	-0.039502146	0.374255173	-3.350702e-01
## 1243	-1.360844e+00	1.357470e+00	1.868487233	-1.495940395	-9.532922e-01
## 1244	4.690892e-01	1.746069e+00	1.662328318	-0.212968064	-5.685042e-01
## 1245	-2.616926e+00	1.126209e+00	0.811107180	0.748326102	-2.423863e-01
## 1246	4.891436e-01	2.148406e+00	2.190712439	0.332581235	2.854438e-01
## 1247	4.031281e-01	1.528546e+00	1.339491300	0.293875401	-3.884383e-01
## 1248	-2.616926e+00	1.126209e+00	0.811107180	0.748326102	-2.423863e-01
## 1249	4.891436e-01	2.148406e+00	2.190712439	0.332581235	2.854438e-01
## 1250	1.403128e+00	1.528546e+00	1.339491300	0.293875401	-3.884383e-01
## 1251	-6.369806e-01	7.238717e-01	0.282723060	0.202776803	-1.096334e+00
## 1252	-2.571019e+00	9.413944e-01	0.605560078	0.695933337	-2.764001e-01
## 1253	-4.649496e-01	1.963592e+00	1.985165336	-0.719811530	-7.485700e-01
## 1254	-5.968719e-01	1.528546e+00	1.339491300	0.293875401	-3.884383e-01
## 1255	-5.968719e-01	1.528546e+00	1.339491300	0.293875401	-3.884383e-01
## 1256	-5.968719e-01	1.528546e+00	1.339491300	0.293875401	-3.884383e-01
## 1257	-1.596872e+00	1.528546e+00	1.339491300	0.293875401	-3.884383e-01
## 1258	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1259	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1260	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1261	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1262	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1263	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1264	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1265	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1266	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1267	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1268	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1269	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1270	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1271	-5.768176e-01	1.930883e+00	1.867875421	0.839424701	4.655096e-01
## 1272	-5.768176e-01	9.308834e-01	-0.132124579	0.839424701	4.655096e-01
## 1273	5.509953e+00	2.932688e+00	3.221332301	0.516720532	4.128391e-01
## 1274	-6.971437e-01	-6.483140e+00	-7.302429301	-2.433871095	1.341822e+00
## 1275	7.388527e-02	-9.443416e-02	-0.577259055	-0.783969067	2.873426e-01
## 1276	-9.261147e-01	-9.443416e-02	-0.577259055	-0.783969067	2.873426e-01
## 1277	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00

## 1278	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1279	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1280	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1281	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1282	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1283	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1284	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1285	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1286	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1287	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1288	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1289	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1290	9.393961e-02	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1291	-9.060604e-01	3.079031e-01	-0.048874935	-0.238419768	1.141291e+00
## 1292	1.139940e-01	7.102403e-01	0.479509185	0.307129531	1.995238e+00
## 1293	-1.886006e+00	7.102403e-01	0.479509185	0.307129531	9.952385e-01
## 1294	2.072864e+00	1.270447e+00	1.209128168	1.070338692	1.847867e+00
## 1295	-4.848309e-02	2.213057e-01	-0.174789331	-0.348649344	1.284704e+00
## 1296	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1297	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1298	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1299	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1300	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1301	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1302	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1303	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1304	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1305	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1306	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1307	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1308	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1309	3.275544e-02	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1310	-9.672446e-01	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1311	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1312	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1313	-9.471902e-01	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1314	1.072864e+00	1.270447e+00	1.209128168	1.070338692	1.847867e+00
## 1315	9.715713e-01	6.236429e-01	0.353594789	0.196899955	2.138652e+00
## 1316	-9.672446e-01	4.657730e-01	0.152359927	-0.020759907	1.139971e+00
## 1317	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1318	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1319	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1320	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1321	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1322	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1323	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1324	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1325	5.280978e-02	8.681102e-01	0.680744047	0.524789393	1.993919e+00
## 1326	4.052810e+00	4.868110e+00	4.680744047	4.524789393	1.993919e+00
## 1327	-2.775822e-01	-1.302850e-01	-0.624891192	-0.784716352	2.560850e+00
## 1328	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1329	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1330	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1331	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00

## 1332	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1333	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1334	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1335	-1.952628e+00	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1336	2.087481e+00	1.652259e+00	1.740474080	1.617939999	1.689816e+00
## 1337	-1.151052e-01	3.586496e-01	0.029407324	-0.128937476	2.271385e+00
## 1338	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1339	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1340	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1341	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1342	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1343	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1344	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1345	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1346	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1347	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1348	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1349	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1350	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1351	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1352	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1353	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1354	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1355	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1356	-1.952628e+00	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1357	2.087481e+00	1.652259e+00	1.740474080	1.617939999	6.898156e-01
## 1358	-1.963437e-01	1.141823e-01	-0.297741934	-0.456826914	2.416118e+00
## 1359	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1360	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1361	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1362	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1363	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1364	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1365	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1366	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1367	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1368	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1369	4.737187e-02	8.475843e-01	0.683705840	0.526841400	1.981920e+00
## 1370	4.737187e-02	8.475843e-01	0.683705840	0.526841400	9.819197e-01
## 1371	-3.386665e-02	6.031169e-01	0.356556582	0.198951962	1.126652e+00
## 1372	-3.386665e-02	6.031169e-01	0.356556582	0.198951962	1.126652e+00
## 1373	-3.386665e-02	6.031169e-01	0.356556582	0.198951962	1.126652e+00
## 1374	-1.033867e+00	6.031169e-01	0.356556582	0.198951962	1.126652e+00
## 1375	-1.381231e-02	1.005454e+00	0.884940702	0.744501262	1.980600e+00
## 1376	-1.381231e-02	1.005454e+00	0.884940702	0.744501262	1.980600e+00
## 1377	-1.381231e-02	1.005454e+00	0.884940702	0.744501262	9.806003e-01
## 1378	-2.095051e+00	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1379	1.945058e+00	1.565661e+00	1.614559685	1.507710422	8.332288e-01
## 1380	-2.575279e-01	2.720522e-01	-0.096507072	-0.239167052	1.414798e+00
## 1381	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1382	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1383	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1384	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1385	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00

## 1386	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1387	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1388	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1389	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1390	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1391	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1392	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1393	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1394	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1395	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1396	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1397	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1398	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1399	-1.095051e+00	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1400	9.250035e-01	1.163324e+00	1.086175564	0.962161123	-2.071914e-02
## 1401	-2.575279e-01	2.720522e-01	-0.096507072	-0.239167052	1.414798e+00
## 1402	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1403	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1404	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1405	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1406	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1407	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1408	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1409	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1410	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1411	-9.505083e-02	7.609868e-01	0.557791444	-1.583388176	1.125333e+00
## 1412	-6.449612e-02	8.148760e-01	0.566415924	0.086077631	1.195999e+00
## 1413	-6.449612e-02	8.148760e-01	0.566415924	0.086077631	1.195999e+00
## 1414	-6.449612e-02	8.148760e-01	0.566415924	2.086077631	1.195999e+00
## 1415	-9.505083e-02	7.609868e-01	0.557791444	-0.583388176	1.125333e+00
## 1416	-7.977347e-02	7.879314e-01	0.562103684	1.251344727	1.160666e+00
## 1417	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1418	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1419	-1.095051e+00	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1420	9.250035e-01	1.163324e+00	1.086175564	0.962161123	9.792809e-01
## 1421	-1.762894e-01	5.165195e-01	0.230642186	0.088722386	1.270066e+00
## 1422	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1423	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1424	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
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## 1427	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1428	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
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## 1430	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1431	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1432	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
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## 1435	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
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## 1439	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00

## 1440	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.253329e-01
## 1441	-1.762894e-01	5.165195e-01	0.230642186	0.088722386	1.270066e+00
## 1442	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
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## 1453	-9.505083e-02	7.609868e-01	0.557791444	-0.583388176	1.125333e+00
## 1454	-7.977347e-02	7.879314e-01	0.562103684	1.251344727	1.160666e+00
## 1455	-9.505083e-02	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1456	9.049492e-01	7.609868e-01	0.557791444	0.416611824	1.125333e+00
## 1457	-3.115105e+00	3.586496e-01	3.029407324	2.871062524	2.713850e-01
## 1458	-2.192862e-01	9.403646e-01	2.922389674	1.812906917	-2.078010e-01
## 1459	-4.477244e-01	2.339072e-01	1.945254140	1.663971507	2.617300e-01
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## 1471	-4.477244e-01	2.339072e-01	1.945254140	1.663971507	2.617300e-01
## 1472	-4.477244e-01	2.339072e-01	1.945254140	1.663971507	2.617300e-01
## 1473	-4.477244e-01	2.339072e-01	1.945254140	1.663971507	2.617300e-01
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## 1475	-4.399620e-01	8.727365e-01	2.179222159	1.880864142	2.523727e-01
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## 1504	-4.477244e-01	2.339072e-01	1.945254140	1.663971507	2.617300e-01
## 1505	-4.477244e-01	2.339072e-01	1.945254140	1.663971507	2.617300e-01
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## 1513	2.455228e+01	2.523391e+01	1.945254140	1.663971507	2.617300e-01
## 1514	-1.143141e+00	-7.952568e-01	7.886450652	7.602923145	4.146965e+00
## 1515	-4.817113e-01	-8.943799e-01	1.963765342	1.676796554	1.867342e-01
## 1516	-4.739490e-01	-1.255551e+00	2.197733362	1.893689190	1.773768e-01
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## 1570 -5.292206e-01 -1.093424e-01 -1.890628056 -3.033825790 -5.183872e+00
## 1571 -6.499631e-01 -5.352974e-01 -3.777521744 -3.091916826 -6.017482e+00
## 1572 -6.916976e-01 -5.982770e-01 -4.544926572 -4.689604666 -6.894406e+00
## 1573 -7.181548e-01 -6.343121e-01 -4.308019159 -5.452559602 -6.735997e+00
## 1574 -7.028775e-01 -6.073675e-01 -5.303706919 -5.617826699 -8.700664e+00
## 1575 -8.105732e-01 -8.878699e-01 -8.393948765 -8.708671073 -1.239752e+01
## 1576 -9.711832e-01 -1.240442e+00 -8.010375786 -8.325425320 -1.077756e+01
## 1577 7.411006e+01 7.400402e+01 65.316773472 66.002464118 6.407771e+01
## 1578 -8.976202e-01 -9.909165e-01 -8.503891819 -8.663924640 -1.115526e+01
## 1579 -8.976202e-01 -9.909165e-01 -8.503891819 -8.663924640 -1.115526e+01
## 1580 -8.976202e-01 -9.909165e-01 -8.503891819 -8.663924640 -1.115526e+01
## 1581 -8.976202e-01 -9.909165e-01 -9.503891819 -8.663924640 -1.215526e+01
## 1582 -9.393548e-01 -1.053896e+00 -8.271296647 -9.261612480 -1.003219e+01
## 1583 -8.163817e-01 -7.464492e-01 -5.176742561 -5.336035202 -6.299994e+00
## 1584 -6.557716e-01 -3.938766e-01 -3.560315541 -3.719280955 -4.919955e+00
## 1585 -6.028573e-01 -3.218065e-01 -4.034130365 -4.193371082 -6.236773e+00
## 1586 -6.840958e-01 -5.662738e-01 -7.361279623 -7.521260520 -7.092041e+00
## 1587 -6.009903e-01 -1.854444e-01 -3.996258870 -4.154346453 -4.906278e+00
## 1588 -5.480759e-01 -1.133742e-01 -4.470073695 -3.628436580 -3.223097e+00
## 1589 -4.008762e-01 3.486158e-01 -2.820087419 -3.807390608 -3.547895e+00
## 1590 -4.403802e-01 1.671282e-01 -3.379831849 -3.537592206 -3.526238e+00
## 1591 -4.403802e-01 1.671282e-01 -3.379831849 -3.537592206 -4.526238e+00
## 1592 -5.216187e-01 -7.733914e-02 -3.706981107 -3.865481644 -4.381506e+00
## 1593 -5.216187e-01 -7.733914e-02 -3.706981107 -3.865481644 -3.381506e+00
## 1594 -4.403802e-01 1.671282e-01 -3.379831849 -3.537592206 -4.526238e+00
## 1595 -5.216187e-01 -7.733914e-02 -3.706981107 -3.865481644 -4.381506e+00
## 1596 -5.216187e-01 -7.733914e-02 -3.706981107 -3.865481644 -3.381506e+00
## 1597 -4.403802e-01 1.671282e-01 -3.379831849 -3.537592206 -3.526238e+00
## 1598 -4.403802e-01 1.671282e-01 -3.379831849 -3.537592206 -3.526238e+00
## 1599 -4.403802e-01 1.671282e-01 -3.379831849 -3.537592206 -4.526238e+00
## 1600 -5.216187e-01 -7.733914e-02 -4.706981107 -3.865481644 -4.381506e+00
## 1601 -4.821148e-01 1.041485e-01 -4.147236677 -5.135280046 -5.403162e+00

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## 1602 -5.480759e-01 -1.133742e-01 -4.470073695 -3.628436580 -4.223097e+00
## 1603 -4.821148e-01 1.041485e-01 -4.147236677 -4.135280046 -4.403162e+00
## 1604 -4.821148e-01 1.041485e-01 -3.147236677 -4.135280046 -4.403162e+00
## 1605 7.447838e+01 7.492266e+01 70.293018893 70.134518356 7.061849e+01
## 1606 -1.568798e+00 -1.253768e+00 -4.087390829 -4.262072000 -5.592817e+00
## 1607 3.777799e-01 5.429311e-01 -3.652187948 -3.827519503 -3.603493e+00
## 1608 -5.687982e-01 -2.537681e-01 -3.087390829 -2.262072000 -2.592817e+00
## 1609 -4.763799e-01 -2.103178e-04 -2.001461224 -3.005960529 -3.931292e+00
## 1610 -5.971224e-01 -4.261653e-01 -2.888354912 -3.064051565 -3.764903e+00
## 1611 -5.971224e-01 -4.261653e-01 -3.888354912 -4.064051565 -4.764903e+00
## 1612 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1613 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -3.606493e+00
## 1614 -5.423410e-01 -2.177330e-01 -3.324298241 -3.499117063 -4.751226e+00
## 1615 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1616 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1617 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -3.606493e+00
## 1618 -5.423410e-01 -2.177330e-01 -3.324298241 -3.499117063 -3.751226e+00
## 1619 -5.423410e-01 -2.177330e-01 -3.324298241 -3.499117063 -3.751226e+00
## 1620 -5.423410e-01 -2.177330e-01 -3.324298241 -3.499117063 -4.751226e+00
## 1621 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1622 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1623 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -5.606493e+00
## 1624 -7.048181e-01 -7.066677e-01 -3.978596757 -4.154895939 -5.461761e+00
## 1625 -7.048181e-01 -7.066677e-01 -3.978596757 -4.154895939 -4.461761e+00
## 1626 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1627 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1628 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -3.606493e+00
## 1629 -5.423410e-01 -1.217733e+00 -3.324298241 -3.499117063 -3.751226e+00
## 1630 -5.345787e-01 4.210963e-01 -3.090330222 -3.282224428 -3.760583e+00
## 1631 -5.423410e-01 -2.177330e-01 -3.324298241 -3.499117063 -3.751226e+00
## 1632 -5.423410e-01 -2.177330e-01 -3.324298241 -3.499117063 -3.751226e+00
## 1633 -5.423410e-01 -2.177330e-01 -3.324298241 -3.499117063 -4.751226e+00
## 1634 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1635 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1636 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1637 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -4.606493e+00
## 1638 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -5.606493e+00
## 1639 -7.048181e-01 -7.066677e-01 -3.978596757 -4.154895939 -4.461761e+00
## 1640 -6.235796e-01 -4.622004e-01 -3.651447499 -3.827006501 -5.606493e+00
## 1641 -7.048181e-01 -7.066677e-01 -3.978596757 -4.154895939 -5.461761e+00
## 1642 -7.048181e-01 -7.066677e-01 -4.978596757 -5.154895939 -6.461761e+00
## 1643 -7.312753e-01 -7.427028e-01 -4.741689345 -4.917850876 -7.303351e+00
## 1644 7.418749e+01 7.401283e+01 68.931161397 68.754259687 6.684138e+01
## 1645 -9.409318e-01 -1.408066e+00 -6.776397583 -5.970220107 -8.225197e+00
## 1646 -9.014278e-01 -1.226579e+00 -6.216653152 -6.240018509 -8.246854e+00
## 1647 -9.014278e-01 -1.226579e+00 -6.216653152 -7.240018509 -9.246854e+00
## 1648 -9.673890e-01 -1.444101e+00 -6.539490170 -6.733175043 -9.066788e+00
## 1649 -9.673890e-01 -1.444101e+00 -7.539490170 -7.733175043 -1.106679e+01
## 1650 -1.075085e+00 -1.724604e+00 -7.629732016 -7.824019418 -8.763646e+00
## 1651 -9.126077e-01 -1.235669e+00 -5.975433500 -5.168240542 -7.053111e+00
## 1652 -8.201893e-01 -9.821114e-01 -3.889503894 -4.912129071 -3.391586e+00
## 1653 -5.895205e-01 -3.941620e-01 -3.704707963 -3.895707419 -3.962537e+00
## 1654 -5.895205e-01 -3.941620e-01 -3.704707963 -3.895707419 -2.962537e+00
## 1655 -5.082820e-01 -1.496947e-01 -3.377558705 -3.567817981 -3.107269e+00

```

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## 1656 -5.082820e-01 -1.496947e-01 -3.377558705 -3.567817981 -3.107269e+00
## 1657 -5.082820e-01 -1.496947e-01 -3.377558705 -3.567817981 -4.107269e+00
## 1658 -5.895205e-01 -3.941620e-01 -3.704707963 -3.895707419 -3.962537e+00
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## 1660 -5.895205e-01 -3.941620e-01 -3.704707963 -3.895707419 -2.962537e+00
## 1661 -5.082820e-01 -1.496947e-01 -3.377558705 -3.567817981 -4.107269e+00
## 1662 -5.895205e-01 -3.941620e-01 -3.704707963 -3.895707419 -3.962537e+00
## 1663 -5.895205e-01 -3.941620e-01 -3.704707963 -3.895707419 -4.962537e+00
## 1664 -6.707591e-01 -6.386293e-01 -4.031857221 -4.223596857 -5.817804e+00
## 1665 -7.519976e-01 -8.830967e-01 -4.359006479 -4.551486295 -6.673072e+00
## 1666 -8.332361e-01 -1.127564e+00 -4.686155737 -4.879375733 -5.528339e+00
## 1667 -7.519976e-01 -8.830967e-01 -4.359006479 -4.551486295 -4.673072e+00
## 1668 -6.707591e-01 -6.386293e-01 -4.031857221 -4.223596857 -3.817804e+00
## 1669 -5.895205e-01 -3.941620e-01 -3.704707963 -3.895707419 -2.962537e+00
## 1670 -5.082820e-01 -1.149695e+00 -3.377558705 -3.567817981 -3.107269e+00
## 1671 -5.005197e-01 4.891346e-01 -3.143590686 -2.350925345 -3.116627e+00
## 1672 -5.235594e-01 -1.766393e-01 -3.381870945 -4.402550884 -3.142603e+00
## 1673 7.449172e+01 7.485031e+01 71.622441295 72.432182019 7.189273e+01
## 1674 -6.255202e-01 -5.615005e-01 -3.326337337 -3.364075741 -3.367590e+00
## 1675 -6.255202e-01 -5.615005e-01 -3.326337337 -4.364075741 -5.367590e+00
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## 1677 -7.727199e-01 -1.023491e+00 -3.976323613 -4.185121714 -5.042792e+00
## 1678 -7.727199e-01 -1.023491e+00 -3.976323613 -4.185121714 -5.042792e+00
## 1679 -7.727199e-01 -1.023491e+00 -3.976323613 -4.185121714 -4.042792e+00
## 1680 -6.914814e-01 -7.790233e-01 -1.649174355 -1.857232276 -3.187524e+00
## 1681 -7.198055e-01 -9.514204e-01 -2.450138438 -2.659211841 -2.359610e+00
## 1682 -6.385670e-01 -7.069531e-01 -2.122989180 -2.331322403 -3.504343e+00
## 1683 -7.198055e-01 -9.514204e-01 -3.450138438 -3.659211841 -3.359610e+00
## 1684 -6.650242e-01 -7.429882e-01 -2.886081768 -3.094277339 -3.345934e+00
## 1685 -6.650242e-01 -7.429882e-01 -2.886081768 -3.094277339 -3.345934e+00
## 1686 -6.650242e-01 -7.429882e-01 -2.886081768 -3.094277339 -4.345934e+00
## 1687 -7.462627e-01 -9.874555e-01 -3.213231026 -3.422166777 -3.201201e+00
## 1688 -6.650242e-01 -7.429882e-01 -1.886081768 -2.094277339 -3.345934e+00
## 1689 -7.198055e-01 -9.514204e-01 -2.450138438 -2.659211841 -2.359610e+00
## 1690 -6.385670e-01 -7.069531e-01 -0.122989180 -0.331322403 -1.504343e+00
## 1691 -6.668912e-01 -8.793503e-01 -1.923953263 -2.133301968 -1.676429e+00
## 1692 -6.121098e-01 -6.709180e-01 -1.359896593 -1.568367467 -2.662752e+00
## 1693 -6.933483e-01 -9.153853e-01 -1.687045850 -1.896256905 -2.518019e+00
## 1694 -6.933483e-01 -9.153853e-01 -2.687045850 -2.896256905 -3.518019e+00
## 1695 -7.198055e-01 -9.514204e-01 -3.450138438 -3.659211841 -3.359610e+00
## 1696 -6.650242e-01 -7.429882e-01 -2.886081768 -3.094277339 -3.345934e+00
## 1697 -6.650242e-01 -7.429882e-01 -2.886081768 -3.094277339 -3.345934e+00
## 1698 -6.650242e-01 -7.429882e-01 -2.886081768 -3.094277339 -3.345934e+00
## 1699 -6.650242e-01 4.925701e+01 -2.886081768 -3.094277339 -3.345934e+00
## 1700 -1.053140e+00 1.731555e+01 -14.584482732 -13.938909104 -2.878066e+00
## 1701 4.894686e+01 1.731555e+01 36.415517268 37.061090896 4.912193e+01
## 1702 -6.253024e-01 -7.190599e-01 -0.758817517 -0.977782870 -1.799067e+00
## 1703 -6.800837e-01 -9.274922e-01 -2.322874187 -2.542717371 -3.812744e+00
## 1704 -7.877794e-01 -1.207995e+00 -3.413116033 -3.633561746 -3.509602e+00
## 1705 -7.329981e-01 -9.995623e-01 -2.849059362 -3.068627244 -3.495925e+00
## 1706 -7.329981e-01 -9.995623e-01 -2.849059362 -3.068627244 -3.495925e+00
## 1707 -7.329981e-01 -9.995623e-01 -2.849059362 -3.068627244 -3.495925e+00
## 1708 -7.329981e-01 -9.995623e-01 -2.849059362 -2.068627244 -3.495925e+00
## 1709 -7.482754e-01 -1.026507e+00 -2.853371603 -3.903360148 -3.531258e+00

```

```

## 1710 -7.329981e-01 -9.995623e-01 -2.849059362 -3.068627244 -3.495925e+00
## [[1]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    1.020054345  0.4023372  0.52838412  0.5455493  0.853947953
## OBFR    0.007762317  0.6388293  0.23396802  0.2168926 -0.009357355
## TGCR    0.039503984  0.1814876  0.55974443 -0.2697984 -0.021656582
## BGCR    0.015277354  0.0269446  0.00431224  0.8347329  0.035333200
## SOFR   -0.081238522 -0.2444673 -0.32714926 -0.3278894  0.144732618
## ones_v  0.291860317 -0.8579167 -0.62940967 -0.5214771 -0.282425829
##
## [[2]]
##          [,1]          [,2]          [,3]          [,4]          [,5]
## [1,] 0.1268243 0.10705335 0.14167362 0.1400492 0.10528421
## [2,] 0.1366107 0.11064621 0.14119800 0.1396571 0.12352944
## [3,] 0.1470317 0.11653708 0.16355764 0.1739493 0.14179146
## [4,] 0.0515202 0.06648629 0.07764863 0.1045401 0.03906772
## [5,] 0.1243188 0.08974691 0.12046807 0.1213039 0.08634243
## [6,] 0.1721229 0.38636386 0.38481799 0.3553826 0.21189063
##
## [[3]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.999998 0.999997 0.9999937 0.9999937 0.9999951
##
## [[4]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.999998 0.999997 0.9999937 0.9999936 0.9999951
##
## [[5]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    0.016084391 -0.017182513  0.017799755 -0.0012086944 -0.015419595
## OBFR   -0.017182513  0.018662477 -0.019183815  0.0012143972  0.016416573
## TGCR    0.017799755 -0.019183815  0.021618307 -0.0031477468 -0.016998661
## BGCR   -0.001208694  0.001214397 -0.003147747  0.0026543309  0.000474095
## SOFR   -0.015419595  0.016416573 -0.016998661  0.0004740950  0.015455154
## ones_v -0.009295709  0.010289266 -0.008790379  0.0006385292  0.007033446
##          ones_v          EFFR          OBFR          TGCR          BGCR
## EFFR   -0.0092957087  0.011460420 -0.011667195  0.010419092 -0.0040882795
## OBFR    0.0102892663 -0.011667195  0.012242584 -0.010899937  0.0037394764
## TGCR   -0.0087903790  0.010419092 -0.010899937  0.013580890 -0.0043002439
## BGCR    0.0006385292 -0.004088280  0.003739476 -0.004300244  0.0044204272
## SOFR    0.0070334458 -0.006036735  0.006508330 -0.008712716  0.0001606993
## ones_v  0.0296262764 -0.025242755  0.024258443 -0.013293902  0.0176687029
##          SOFR          ones_v          EFFR          OBFR          TGCR
## EFFR   -0.0060367348 -0.025242755  0.020071415 -0.013268183  0.01286176
## OBFR    0.0065083298  0.024258443 -0.013268183  0.019936874 -0.02091369
## TGCR   -0.0087127163 -0.013293902  0.012861756 -0.020913689  0.02675110
## BGCR    0.0001606993  0.017668703 -0.005470068  0.006120834 -0.00832212
## SOFR    0.0080545070 -0.003844308 -0.013964133  0.007818114 -0.00998821
## ones_v -0.0038443079  0.149277032 -0.031712125  0.031121924 -0.02521460
##          BGCR          SOFR          ones_v          EFFR          OBFR
## EFFR   -0.005470068 -0.013964133 -0.031712125  0.019613786 -0.012768848
## OBFR    0.006120834  0.007818114  0.031121924 -0.012768848  0.019504110
## TGCR   -0.008322120 -0.009988210 -0.025214597  0.012607758 -0.020723910
## BGCR    0.006029309  0.001481085  0.020112762 -0.004832515  0.005528062

```

```
## SOFR      0.001481085  0.014512556  0.004930329 -0.014398306  0.008163227
## ones_v    0.020112762  0.004930329  0.148084888 -0.027906225  0.027551296
##          TGCR          BGCR          SOFR          ones_v          EFFR
## EFFR      0.012607758 -0.0048325145 -0.0143983065 -0.027906225  0.011084766
## OBFR      -0.020723910  0.0055280616  0.0081632266  0.027551296 -0.011285077
## TGCR      0.030258358 -0.0124580983 -0.0092919450 -0.023428905  0.012379669
## BGCR      -0.012458098  0.0109286387  0.0006707817  0.016691932 -0.002967437
## SOFR      -0.009291945  0.0006707817  0.0147146334  0.006382405 -0.009034905
## ones_v    -0.023428905  0.0166919322  0.0063824053  0.126296791 -0.012784087
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFFR      -0.011285077  0.012379669 -0.002967437 -0.009034905 -0.012784087
## OBFR      0.015259522 -0.017224561  0.004129469  0.008845599  0.017079887
## TGCR      -0.017224561  0.020104819 -0.005147938 -0.009750891 -0.018827471
## BGCR      0.004129469 -0.005147938  0.001526287  0.002346668  0.004539015
## SOFR      0.008845599 -0.009750891  0.002346668  0.007455015  0.009474948
## ones_v    0.017079887 -0.018827471  0.004539015  0.009474948  0.044897637
##
## [[6]]
##          [,1] [,2] [,3]
## [1,] 866964.3  6    0
## [2,] 593223.4  6    0
## [3,] 216721.2  6    0
## [4,] 214210.5  6    0
## [5,] 2619562.3  6    0
```

```
print(result[[1]]) # bv
```

```
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR      1.020054345  0.4023372  0.52838412  0.5455493  0.853947953
## OBFR      0.007762317  0.6388293  0.23396802  0.2168926 -0.009357355
## TGCR      0.039503984  0.1814876  0.55974443 -0.2697984 -0.021656582
## BGCR      0.015277354  0.0269446  0.00431224  0.8347329  0.035333200
## SOFR      -0.081238522 -0.2444673 -0.32714926 -0.3278894  0.144732618
## ones_v    0.291860317 -0.8579167 -0.62940967 -0.5214771 -0.282425829
```

```
print(result[[2]]) # sebv
```

```
##          [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.1268243 0.10705335 0.14167362 0.1400492 0.10528421
## [2,] 0.1366107 0.11064621 0.14119800 0.1396571 0.12352944
## [3,] 0.1470317 0.11653708 0.16355764 0.1739493 0.14179146
## [4,] 0.0515202 0.06648629 0.07764863 0.1045401 0.03906772
## [5,] 0.1243188 0.08974691 0.12046807 0.1213039 0.08634243
## [6,] 0.1721229 0.38636386 0.38481799 0.3553826 0.21189063
```

```
print(result[[4]]) # R2adj
```

```
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.999998 0.999997 0.9999937 0.9999936 0.9999951
```

```
print(result[[5]]) # v covariance
```

```
##           EFRF      OBFR      TGCR      BGCR      SOFR
## EFRF      0.016084391 -0.017182513  0.017799755 -0.0012086944 -0.015419595
## OBFR      -0.017182513  0.018662477 -0.019183815  0.0012143972  0.016416573
## TGCR      0.017799755 -0.019183815  0.021618307 -0.0031477468 -0.016998661
## BGCR      -0.001208694  0.001214397 -0.003147747  0.0026543309  0.000474095
## SOFR      -0.015419595  0.016416573 -0.016998661  0.0004740950  0.015455154
## ones_v    -0.009295709  0.010289266 -0.008790379  0.0006385292  0.007033446
##           ones_v      EFRF      OBFR      TGCR      BGCR
## EFRF      -0.0092957087  0.011460420 -0.011667195  0.010419092 -0.0040882795
## OBFR      0.0102892663 -0.011667195  0.012242584 -0.010899937  0.0037394764
## TGCR      -0.0087903790  0.010419092 -0.010899937  0.013580890 -0.0043002439
## BGCR      0.0006385292 -0.004088280  0.003739476 -0.004300244  0.0044204272
## SOFR      0.0070334458 -0.006036735  0.006508330 -0.008712716  0.0001606993
## ones_v    0.0296262764 -0.025242755  0.024258443 -0.013293902  0.0176687029
##           SOFR      ones_v      EFRF      OBFR      TGCR
## EFRF      -0.0060367348 -0.025242755  0.020071415 -0.013268183  0.01286176
## OBFR      0.0065083298  0.024258443 -0.013268183  0.019936874 -0.02091369
## TGCR      -0.0087127163 -0.013293902  0.012861756 -0.020913689  0.02675110
## BGCR      0.0001606993  0.017668703 -0.005470068  0.006120834 -0.00832212
## SOFR      0.0080545070 -0.003844308 -0.013964133  0.007818114 -0.00998821
## ones_v    -0.0038443079  0.149277032 -0.031712125  0.031121924 -0.02521460
##           BGCR      SOFR      ones_v      EFRF      OBFR
## EFRF      -0.005470068 -0.013964133 -0.031712125  0.019613786 -0.012768848
## OBFR      0.006120834  0.007818114  0.031121924 -0.012768848  0.019504110
## TGCR      -0.008322120 -0.009988210 -0.025214597  0.012607758 -0.020723910
## BGCR      0.006029309  0.001481085  0.020112762 -0.004832515  0.005528062
## SOFR      0.001481085  0.014512556  0.004930329 -0.014398306  0.008163227
## ones_v    0.020112762  0.004930329  0.148084888 -0.027906225  0.027551296
##           TGCR      BGCR      SOFR      ones_v      EFRF
## EFRF      0.012607758 -0.0048325145 -0.0143983065 -0.027906225  0.011084766
## OBFR      -0.020723910  0.0055280616  0.0081632266  0.027551296 -0.011285077
## TGCR      0.030258358 -0.0124580983 -0.0092919450 -0.023428905  0.012379669
## BGCR      -0.012458098  0.0109286387  0.0006707817  0.016691932 -0.002967437
## SOFR      -0.009291945  0.0006707817  0.0147146334  0.006382405 -0.009034905
## ones_v    -0.023428905  0.0166919322  0.0063824053  0.126296791 -0.012784087
##           OBFR      TGCR      BGCR      SOFR      ones_v
## EFRF      -0.011285077  0.012379669 -0.002967437 -0.009034905 -0.012784087
## OBFR      0.015259522 -0.017224561  0.004129469  0.008845599  0.017079887
## TGCR      -0.017224561  0.020104819 -0.005147938 -0.009750891 -0.018827471
## BGCR      0.004129469 -0.005147938  0.001526287  0.002346668  0.004539015
## SOFR      0.008845599 -0.009750891  0.002346668  0.007455015  0.009474948
## ones_v    0.017079887 -0.018827471  0.004539015  0.009474948  0.044897637
```

```
print(result[[6]]) # Ftest
```

```
##           [,1] [,2] [,3]
## [1,]  866964.3    6    0
## [2,]  593223.4    6    0
## [3,]  216721.2    6    0
## [4,]  214210.5    6    0
## [5,]  2619562.3    6    0
```

```

bvtablek1<-xtable(result[[1]])
sebvtablek1<-xtable(result[[2]])
R2adjtablek1<-xtable(result[[4]])
vtablek1<-xtable(result[[5]])
Ftesttablek1<-xtable(result[[6]])
rrbpk1table <- cbind(bvtablek1, sebvtablek1)

```

```

bvtablek10<-xtable(result[[1]])
sebvtablek10<-xtable(result[[2]])
R2adjtablek10<-xtable(result[[4]])
vtablek10<-xtable(result[[5]])
Ftesttablek10<-xtable(result[[6]])

```

k=2

```

lhv<- rrbp[3:1710,1:5]
T<-nrow(lhv)
ones_v <- rep(1, times = T)
nrow(ones_v)

```

## NULL

```

rhv1<- rrbp[1:1708,1:5]
rhv<- cbind(rhv1, ones_v) # Add a column of ones
nrow(lhv)

```

## [1] 1708

```
nrow(rhv)
```

## [1] 1708

```

lags<-1
weight<-1

nlag<-1
nw<-1
result <-olsghmmv2(lhv,rhv,nlag,nw)

```

## [1] 1708

## [1] 1708

## [1] 1708

## [1] 5

## [1] 6

```

##      EFFR      OBFR      TGCR      BGCR      SOFR
## 108.4163 104.9028 104.5281 105.6604 108.2184
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 3      -4.442520e-01 -1.597243949 -0.10319411 -0.095512877 -9.896235e-01
## 4      -2.282198e-01  0.310031629 -0.14667361  2.404496614 -8.288637e-01
## 5      -3.912872e-01  0.008818352 -0.65896645  1.133871623 -7.514003e-01

```

## 6	-6.336444e-01	-1.021709498	-0.47541846	3.581632074	-1.139868e+00
## 7	-6.336444e-01	-0.021709498	-1.47541846	0.581632074	-1.139868e+00
## 8	-9.852183e-01	-1.056410610	-1.67721550	-1.928692285	-3.020861e-01
## 9	-8.088311e-01	-1.513792318	-3.87277458	-3.569490073	-3.742919e-01
## 10	-5.907959e-01	-2.674354738	-4.18381388	-6.908968057	-2.482878e-01
## 11	-4.277285e-01	-3.373141461	-4.67152103	-8.638343066	-3.257513e-01
## 12	5.818655e-02	-3.261550288	-2.63153223	-3.325783904	1.445547e-01
## 13	3.689149e-01	-1.642041935	2.01110044	6.835653111	3.804367e-01
## 14	3.005438e-01	2.768977563	2.18491977	7.226455645	5.330225e-01
## 15	-3.087937e-01	1.720830400	0.78471770	2.784078770	3.731456e-01
## 16	-6.854920e-01	-0.386587512	0.13007395	0.429604418	-3.234101e-01
## 17	-6.854920e-01	-0.386587512	-2.86992605	-2.570395582	-3.234101e-01
## 18	-6.050016e-01	-3.606737467	-1.15868210	4.919299041	-1.641085e-01
## 19	-1.252242e+01	-1.085374235	-0.35763321	3.700229409	-4.008735e-01
## 20	-9.160447e-01	0.414196422	-0.52567942	-2.367062358	-1.218280e+01
## 21	1.186629e+01	6.399776273	4.58482026	3.496351726	1.046642e+01
## 22	-2.401172e+00	-5.286265337	-5.42219182	-6.021823421	8.819013e-02
## 23	-4.552541e-01	-1.546929205	-0.93853733	-0.898653189	-2.468296e-01
## 24	-2.800675e-01	-1.054846385	-0.54118120	0.252468958	-1.240574e-02
## 25	-3.075931e-01	-1.228634129	-0.80819750	0.992158835	6.651594e-02
## 26	-3.075931e-01	-0.228634129	-0.80819750	-0.007841165	6.651594e-02
## 27	-4.156092e-01	-0.182271918	-0.78645775	-0.757845910	-1.386396e-02
## 28	-3.747637e-01	-0.767079159	-1.22729338	-0.408958566	-8.752801e-02
## 29	-3.747637e-01	-0.767079159	-1.22729338	3.591041434	-8.752801e-02
## 30	-3.747637e-01	-0.767079159	-1.22729338	1.591041434	-8.752801e-02
## 31	-8.068280e-01	-1.581630316	-3.14033438	-7.408977548	-4.090476e-01
## 32	-5.907959e-01	-3.674354738	-4.18381388	-6.908968057	-2.482878e-01
## 33	-3.650965e-02	-2.973783062	-4.31764441	-2.987211428	6.943238e-02
## 34	1.253571e-01	-2.723105257	0.78756364	4.075333498	2.985986e-01
## 35	4.486665e-02	0.497044697	-0.92368031	-0.414361125	1.392970e-01
## 36	-2.140975e-01	-0.566936826	-2.52917012	-4.554493705	4.482679e-01
## 37	-1.445257e-01	-2.927420852	-3.29590466	-4.737216174	-1.094752e-02
## 38	5.818655e-02	-2.261550288	-3.63153223	-4.325783904	1.445547e-01
## 39	2.333732e-01	-2.769467468	-0.23417611	-0.174661757	3.789785e-01
## 40	-6.739101e+00	-0.595679724	-1.96715981	-0.914351634	3.000568e-01
## 41	2.454925e-01	-1.578597925	-1.34911283	-0.294164601	-6.309134e+00
## 42	7.466896e+00	2.912313073	2.44723414	2.854172411	6.442541e+00
## 43	-9.582211e-01	-3.003840850	-2.36850645	-1.000808921	5.737991e-01
## 44	3.066092e-02	-0.435338032	0.10145147	2.413905973	2.234763e-01
## 45	-1.048808e-01	0.437236435	-1.14382508	1.403591105	2.220181e-01
## 46	-3.075931e-01	-1.228634129	-1.80819750	-0.007841165	6.651594e-02
## 47	-4.552541e-01	-1.546929205	-1.93853733	-0.898653189	-2.468296e-01
## 48	-3.880836e-01	-1.008484174	-1.51944145	-0.497535787	-9.278565e-02
## 49	-3.880836e-01	-1.008484174	-1.51944145	-0.497535787	-9.278565e-02
## 50	-3.880836e-01	-1.008484174	-0.51944145	2.502464213	-9.278565e-02
## 51	-3.880836e-01	-0.008484174	-1.51944145	1.502464213	-9.278565e-02
## 52	-6.316414e-01	-1.089547496	-2.74297825	-3.257855401	-1.746238e-01
## 53	-6.712863e-01	-2.454204783	-3.89505783	-7.398662680	-4.075894e-01
## 54	-3.605579e-01	-2.834696430	-4.25242515	-7.237225665	-1.717073e-01
## 55	5.818655e-02	-3.261550288	-3.63153223	-6.325783904	1.445547e-01
## 56	2.608988e-01	-2.595679724	0.03284019	1.085648366	3.000568e-01
## 57	5.441016e-01	-0.149959115	-1.59154343	-1.013224742	6.148606e-01
## 58	1.374764e-01	-0.532235714	-2.32737308	-2.044169346	6.104859e-01
## 59	2.742187e-01	-3.354274709	-3.67501173	-4.825774413	3.053145e-01



## 60	5.818655e-02	-3.261550288	-0.63153223	2.674216096	1.445547e-01
## 61	-7.455898e+00	0.850040885	-0.59154343	4.986775258	6.148606e-01
## 62	-1.865719e-01	-0.393149082	-1.26215382	-0.294183582	-7.630654e+00
## 63	8.106539e+00	2.935433125	2.40902213	3.539867266	7.025991e+00
## 64	-1.500305e+00	-3.704191799	-3.99224791	-1.911345172	2.066553e-01
## 65	-2.933874e-01	-1.296251400	-0.83332928	1.163891737	-1.766338e-02
## 66	-4.014035e-01	-0.249889189	0.18841047	2.413886992	-9.804328e-02
## 67	-4.289291e-01	0.576323067	-0.07860583	1.153576869	-1.912160e-02
## 68	-6.316414e-01	-0.089547496	2.25702175	2.742144599	-1.746238e-01
## 69	-5.907959e-01	1.325645262	1.81618612	3.091031943	-2.482878e-01
## 70	-6.733727e-01	0.804282031	0.01513723	0.310101574	-1.152278e-02
## 71	-8.077139e-01	-0.272608031	1.17694548	3.507866771	-3.196107e-01
## 72	3.278279e-01	0.854817503	0.42222202	5.518181639	-3.181525e-01
## 73	5.674441e-02	0.599966436	-1.06833107	1.497551903	-3.210689e-01
## 74	-1.257320e+00	-2.268232624	-1.75961206	-2.740401483	-6.145066e-01
## 75	-1.121778e+00	-1.140807090	-1.51433551	-0.730086615	-6.130484e-01
## 76	-6.205402e-01	0.144351099	0.55024157	3.831562293	-1.722405e-01
## 77	-7.957268e-01	0.652268279	2.15288544	9.680440146	-4.066644e-01
## 78	6.873146e-02	2.524842746	16.90760889	14.670125277	-4.081226e-01
## 79	4.064292e-01	12.870633281	11.06317918	12.998363903	1.937773e-01
## 80	7.729613e-01	5.173400972	3.44140428	11.444383351	1.893221e+00
## 81	-1.599938e+00	-0.804931605	-4.97246695	-4.004127420	-7.666618e-01
## 82	-2.142881e+00	-3.183656881	-0.51570255	12.132117773	-1.309746e+00
## 83	-1.267920e+01	0.478357208	-2.51340011	-1.155804852	-1.497970e+00
## 84	-2.681274e+00	-1.379241583	-6.39892824	-15.582317813	-1.252921e+01
## 85	9.232939e+00	0.241600941	-0.02044179	-3.774752400	8.708412e+00
## 86	-3.446488e+00	-6.698250826	-6.43045942	-5.790676220	-1.497658e+00
## 87	-2.784274e-02	-0.822735302	-0.28984090	6.264399736	3.131115e-02
## 88	-5.027557e-01	0.015358780	-0.49448647	1.754980886	-1.817887e-01
## 89	-8.543296e-01	-1.019342332	-2.69628352	-2.755343473	-3.440068e-01
## 90	-7.054680e-01	-2.650511784	-3.15885890	-2.656451384	-3.372909e-01
## 91	-5.832461e-01	-1.764491266	-1.20573042	-0.734713737	-3.410903e-01
## 92	-4.080595e-01	-0.272408446	-0.80837430	2.416408410	-1.066665e-01
## 93	-4.355851e-01	-0.446196190	-2.07539060	-1.843901713	-2.774479e-02
## 94	-7.187879e-01	-2.891916799	-5.45100697	-6.745028605	-3.425485e-01
## 95	-3.672140e-01	-4.857215687	-5.24920993	-6.234704246	-1.803305e-01
## 96	-1.502959e-01	70.741037606	69.39003072	64.348460925	-1.090077e-01
## 97	2.000774e-01	-1.274796754	1.18474297	2.650705220	3.598401e-01
## 98	-6.347851e+00	-51.991683166	-50.40750066	-45.034602483	-4.956610e+00
## 99	-8.521178e-02	-0.462030550	-2.28067834	-2.541657418	4.411029e-01
## 100	-8.401120e-02	-2.411495078	-2.87359355	-2.333577354	1.344732e-01
## 101	-5.648557e-02	-2.237707334	-2.60657725	-1.073267231	5.555156e-02
## 102	1.068500e-02	-1.699262303	-2.18748138	-0.672149829	2.095955e-01
## 103	-1.009733e+01	1.347099907	0.83425837	5.577845425	1.292156e-01
## 104	-9.733110e-02	70.347099907	68.83425837	64.577845425	-9.870784e+00
## 105	9.770387e+00	73.358512371	72.68968996	65.564910034	8.579452e+00
## 106	-7.856498e+00	14.998391335	16.89385105	18.371351380	-4.676212e+00
## 107	-6.280680e+00	-49.453238135	-47.98840479	-38.633485082	-4.802566e+00
## 108	-6.280680e+00	-49.453238135	-48.98840479	-42.633485082	-4.802566e+00
## 109	-7.054680e-01	-1.650511784	-3.15885890	-5.656451384	-3.372909e-01
## 110	-3.538941e-01	-2.615810672	-2.95706185	-3.146127025	-1.750729e-01
## 111	-1.511818e-01	-1.949940109	-0.29268943	1.265305245	-1.957071e-02
## 112	-8.401120e-02	-0.411495078	0.12640645	3.666422646	1.344732e-01
## 113	-2.470785e-01	-0.712708355	-0.38588640	3.395797655	2.119367e-01

## 114	-5.302813e-01	-0.158428964	-0.76150277	0.494670763	-1.028671e-01
## 115	-6.382974e-01	-0.112066753	-1.73976302	-1.255333983	-1.832470e-01
## 116	-5.974519e-01	-1.696873995	-1.18059865	0.093553361	-2.569110e-01
## 117	-5.699262e-01	-1.523086251	-2.91358235	0.353863484	-3.358327e-01
## 118	-5.302813e-01	-2.158428964	-3.76150277	-5.505329237	-1.028671e-01
## 119	-6.912622e-01	-2.718129055	-5.18399067	-10.484718483	-1.042147e+01
## 120	-5.648557e-02	-4.237707334	-2.60657725	-1.073267231	5.555156e-02
## 121	-1.226878e+00	-4.454336736	-4.39557657	-2.245566229	4.929102e-01
## 122	3.701004e-02	-0.576010031	-0.32754987	3.380080229	4.373035e-01
## 123	1.068500e-02	-0.699262303	-2.18748138	2.327850171	2.095955e-01
## 124	-4.489050e-01	-1.687601204	-2.36753867	0.067521066	-3.300242e-02
## 125	-4.885500e-01	-2.052258491	-0.51961825	6.926713787	-2.659681e-01
## 126	-1.052940e+01	0.532548750	-0.07878262	3.577826444	-1.923040e-01
## 127	-1.124527e+00	0.416784316	-1.50411646	-2.692817529	-1.043636e+01
## 128	9.649051e+00	4.163469567	3.41928164	3.726328068	8.493815e+00
## 129	-2.307925e+00	-5.681692344	-4.86089921	-8.828769365	-2.214518e-01
## 130	-6.240917e-01	-2.179684024	-1.76489480	-2.083601081	-2.674263e-01
## 131	-1.684063e-02	-0.873050047	0.54550233	6.067540048	2.885172e-01
## 132	-3.408889e-01	1.266036585	-0.38927842	1.817525812	4.737748e-02
## 133	-6.791429e-01	-0.527259512	-1.29892739	-0.604221326	-1.095829e-01
## 134	-6.779423e-01	-1.476724040	-1.89184260	-0.396141261	-4.162126e-01
## 135	-6.107718e-01	-0.938279010	-0.47274672	2.004976140	-2.621686e-01
## 136	-6.107718e-01	0.061720990	-1.47274672	-2.995023860	-2.621686e-01
## 137	-7.463135e-01	-2.065704543	-5.71802327	-6.005338728	-2.636269e-01
## 138	-3.538941e-01	-5.615810672	-4.95706185	-4.146127025	-1.750729e-01
## 139	-3.254826e-01	-3.751045214	-4.00732540	-3.802661222	-3.434315e-01
## 140	6.453566e-02	-2.402222288	-2.06053357	-0.359609649	3.583818e-01
## 141	-1.595480e-02	-1.182072333	0.22822247	7.150695729	1.990802e-01
## 142	-4.348043e-02	0.644139923	-0.03879382	6.890385606	2.780019e-01
## 143	-8.137988e-01	0.036292669	5.13851621	12.468619486	-2.004781e-01
## 144	-9.481400e-01	4.959402608	7.30032446	21.666384683	-5.085660e-01
## 145	-1.653374e+00	7.148487198	7.80692542	22.354500219	-4.369354e-01
## 146	-2.895087e+00	5.720989257	9.64347952	32.916832223	-1.687093e+00
## 147	-1.458371e+01	8.943527521	-4.06088170	-15.807159209	-2.312901e+00
## 148	-5.367909e+00	-5.353230310	-2.92979843	-18.411011063	-1.435170e+01
## 149	9.725319e+00	3.115334859	2.89273575	8.275778036	7.400013e+00
## 150	-3.541923e+00	-0.951553687	-2.68589162	-7.962612859	-5.117075e-01
## 151	-1.691504e+00	-1.806076859	-5.21370472	-7.453302611	-1.193723e+00
## 152	-5.672712e-02	-4.325655138	-5.63629130	-7.041851359	-7.167017e-01
## 153	1.877165e-01	-3.553614102	-1.73003435	-4.198376065	-7.243005e-01
## 154	-3.175850e-01	-0.499844092	0.14636941	1.918163883	3.370935e-04
## 155	-1.974496e-01	0.644663240	-2.99030706	0.548665784	3.926043e-01
## 156	-4.244839e-01	-3.212297594	-2.78217078	0.245515981	-2.536155e-02
## 157	-5.170937e-01	-2.183017182	-5.37847801	-5.124675798	-4.965504e-01
## 158	-4.511237e-01	-3.695107623	-5.36646693	-9.931638461	-3.587682e-02
## 159	-2.196852e-01	-4.804913844	-4.02799341	-6.051816003	-2.659260e-01
## 160	4.414165e-01	-2.201239851	-4.59064849	-4.588134694	4.388038e-01
## 161	3.730454e-01	-3.790220353	-1.41682916	0.802667840	5.913895e-01
## 162	4.689422e-01	-1.027452107	-2.32363219	0.672175429	3.598821e-01
## 163	1.966581e-01	-1.332838645	-0.22127008	2.443465628	6.635953e-01
## 164	2.267205e-02	-0.774385993	-0.21154141	3.500423545	1.225418e-01
## 165	-1.812408e-01	0.509207971	-2.28299863	-2.119088789	2.736693e-01
## 166	-4.511237e-01	-3.695107623	-1.36646693	3.068361539	-3.587682e-02
## 167	-1.024721e+01	-0.978701588	-4.29500971	-3.312126126	-1.870043e-01

## 168	-6.408308e-01	-2.479130930	-4.46305592	-7.379417894	-9.968929e+00
## 169	1.036419e+01	1.157748100	3.79881570	7.919550160	8.731197e+00
## 170	-1.499294e+00	-3.025716507	-3.20233777	-1.182199812	3.976825e-01
## 171	-3.301025e-01	-0.859622577	-2.82042325	-4.217980878	2.669534e-01
## 172	-3.155820e-01	-3.567682090	-4.12119038	-4.921323593	-3.441859e-02
## 173	-8.534405e-02	-2.728023783	-2.18980166	-1.249581200	4.216190e-02
## 174	8.984262e-02	-1.235940963	0.20755447	2.901540947	2.765858e-01
## 175	-4.569911e-02	0.636633504	-2.03772208	-2.108773921	2.751275e-01
## 176	-2.759370e-01	-2.203024803	-2.96911080	-4.780516314	1.985470e-01
## 177	-1.391947e-01	-3.025063799	-5.31674946	-6.562121381	-1.066244e-01
## 178	1.031625e-01	-3.994535948	-5.50029746	-8.009881832	2.818434e-01
## 179	2.662299e-01	-4.693322671	-5.98800461	-7.739256841	2.043799e-01
## 180	6.441288e-01	-4.535369287	-4.92627606	-6.176702424	5.943060e-01
## 181	7.388250e-01	-3.823136513	-5.24016389	-6.515274900	6.694282e-01
## 182	9.140117e-01	-4.331053693	-3.84280776	-4.364152753	9.038521e-01
## 183	9.415373e-01	-3.157265949	-3.57579146	-3.103842630	8.249304e-01
## 184	9.811823e-01	-2.792608662	-3.42371189	-3.963035351	1.057896e+00
## 185	8.059956e-01	-3.284691482	-3.82106801	-5.114157498	8.234722e-01
## 186	9.140117e-01	-3.331053693	-2.84280776	-3.364152753	9.038521e-01
## 187	-9.085988e+00	-3.331053693	-3.84280776	-4.364152753	9.038521e-01
## 188	8.864861e-01	-3.504841437	-4.10982406	-4.624462875	-9.017226e+00
## 189	1.149788e+01	2.631608252	1.98400135	1.607213411	9.900975e+00
## 190	-5.946349e-01	-6.340979192	-6.54145605	-6.958198889	1.184250e+00
## 191	9.140117e-01	-3.331053693	-3.84280776	-4.364152753	9.038521e-01
## 192	9.140117e-01	-3.331053693	-3.84280776	-4.364152753	9.038521e-01
## 193	9.140117e-01	-3.331053693	-0.84280776	-0.364152753	9.038521e-01
## 194	9.140117e-01	-0.331053693	-0.84280776	-0.364152753	9.038521e-01
## 195	7.234187e-01	-0.806054713	-3.62211691	-3.895087866	1.060237e+00
## 196	5.219070e-01	-4.421389805	-5.87940454	-7.098440071	5.981054e-01
## 197	5.769583e-01	-5.073814318	18.65462806	17.422180174	4.402620e-01
## 198	2.584684e+01	20.130501277	20.73809636	20.234729846	7.498081e-01
## 199	2.525340e+01	17.498040455	14.74880108	13.388404302	2.779797e+01
## 200	-2.845901e+00	-10.505082885	-11.14353902	-13.427138871	1.687032e+00
## 201	9.665609e-01	-4.565076378	-6.83775394	-8.593136186	9.123721e-01
## 202	1.102103e+00	-5.437650845	-5.59247739	-7.582821318	9.138303e-01
## 203	1.224324e+00	-4.551630327	-3.63934892	-2.661083671	9.100309e-01
## 204	1.371986e+00	-3.233335251	-1.50900909	0.229728354	1.223376e+00
## 205	1.020412e+00	-1.268036362	0.28919386	-0.280596005	1.061158e+00
## 206	8.981898e-01	-0.154056881	-3.66393461	-4.202333653	1.064958e+00
## 207	7.087974e-01	-4.578522430	-6.03615896	-8.525188701	9.147133e-01
## 208	-1.034297e+01	-6.134049259	-6.07330182	-6.546493137	3.698603e-01
## 209	1.102103e+00	-4.437650845	-0.59247739	1.417178682	-1.008617e+01
## 210	1.259550e+01	6.752446746	4.27958800	4.886789373	1.080395e+01
## 211	-9.243888e-01	-5.766188207	-6.14474057	-6.326409394	1.450859e+00
## 212	5.214914e-01	-4.261474793	-5.31857837	-5.556808005	3.684021e-01
## 213	6.558325e-01	-4.184584731	-5.48038661	-6.754573201	6.764900e-01
## 214	6.833582e-01	-5.010796987	-4.21337032	-5.494263079	5.975683e-01
## 215	8.860705e-01	-3.344926424	-2.54899789	-3.082830809	7.530705e-01
## 216	9.257154e-01	-1.980269137	-1.39691831	0.057976470	9.860361e-01
## 217	8.310192e-01	-1.692501911	-0.08303049	3.396548946	9.109139e-01
## 218	5.202908e-01	-1.312010264	-0.72566316	4.235111930	6.750318e-01
## 219	1.820368e-01	-1.105306361	-4.63531213	-8.186635208	5.180714e-01
## 220	-2.091820e-01	-4.504664760	-5.98918876	-11.837766846	1.228877e-01
## 221	5.623369e-01	-5.846282034	-6.75941399	-7.207920661	2.947381e-01

## 222	7.913743e-01	-5.057159198	-3.23511007	-2.744258333	6.779482e-01
## 223	8.860705e-01	-2.344926424	-2.54899789	-2.082830809	7.530705e-01
## 224	7.901737e-01	-2.107694670	-2.64219486	-2.952338398	9.845779e-01
## 225	6.558325e-01	-3.184584731	-3.48038661	-2.754573201	6.764900e-01
## 226	6.558325e-01	-3.184584731	-3.48038661	-3.754573201	6.764900e-01
## 227	5.478164e-01	-3.138222521	-1.45864686	2.495422053	5.961101e-01
## 228	-9.344167e+00	-1.184584731	-2.48038661	-0.754573201	6.764900e-01
## 229	6.070081e-02	-2.300349165	-3.90572046	-7.025217174	-9.567566e+00
## 230	1.086180e+01	1.620123829	1.28469394	0.654238546	9.283687e+00
## 231	-1.028001e+00	-6.686593050	-6.57639102	-7.499741485	7.224645e-01
## 232	5.478164e-01	-3.138222521	-4.45864686	-6.504577947	5.961101e-01
## 233	6.558325e-01	-4.184584731	-4.48038661	-5.754573201	6.764900e-01
## 234	7.913743e-01	-4.057159198	-2.23511007	-0.744258333	6.779482e-01
## 235	8.585448e-01	-1.518714167	-2.81601419	-1.343140931	8.319922e-01
## 236	5.874614e-01	-2.773565234	-4.30656728	-4.363770668	8.290757e-01
## 237	4.806459e-01	-4.676667551	-4.87774274	-5.905695348	4.420662e-01
## 238	5.753421e-01	-3.964434777	-2.19163056	-2.244267824	5.171884e-01
## 239	7.505287e-01	-1.472351957	-3.79427444	-4.093145677	7.516123e-01
## 240	5.874614e-01	-3.773565234	-4.30656728	-6.363770668	8.290757e-01
## 241	6.161876e-01	-4.549242018	-5.63246619	-6.895380480	4.435244e-01
## 242	8.585448e-01	-4.518714167	-4.81601419	-5.343140931	8.319922e-01
## 243	8.860705e-01	-4.344926424	-4.54899789	-5.082830809	7.530705e-01
## 244	9.532410e-01	-3.806481393	-3.12990201	-3.681713407	9.071145e-01
## 245	9.532410e-01	-2.806481393	-4.12990201	-3.681713407	9.071145e-01
## 246	9.257154e-01	-3.980269137	-2.39691831	-1.942023530	9.860361e-01
## 247	-8.221946e+00	-2.298564213	-4.52725814	-5.832835554	6.726906e-01
## 248	7.901737e-01	-26.107694670	-25.64219486	-20.952338398	-8.015422e+00
## 249	1.034438e+01	-21.516975704	-20.72396557	-13.109718663	8.696437e+00
## 250	1.003153e+00	-11.741907783	-12.60079542	-12.225287988	2.408805e+00
## 251	2.144903e+00	13.059749588	10.87146754	3.609344044	1.995687e+00
## 252	2.293765e+00	11.428580136	10.40889216	4.708236133	2.002403e+00
## 253	8.860705e-01	-4.344926424	-4.54899789	-5.082830809	7.530705e-01
## 254	9.532410e-01	-3.806481393	-4.12990201	-4.681713407	9.071145e-01
## 255	9.532410e-01	-3.806481393	-4.12990201	-4.681713407	9.071145e-01
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## 258	8.981898e-01	-2.154056881	21.33606539	21.797666347	1.064958e+00
## 259	2.565583e+01	20.815415269	19.51961339	18.245426799	6.764900e-01
## 260	2.499522e+01	15.644509417	13.11122223	11.997983853	2.757061e+01
## 261	-2.941013e+00	-12.057400646	-11.26882503	-11.546934329	1.382206e+00
## 262	8.977742e-01	-3.994141868	-4.10310844	-4.660701586	8.352546e-01
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## 265	8.702486e-01	-2.167929611	-3.37012474	-3.921011709	9.141763e-01
## 266	7.755524e-01	-3.880162386	-4.05623691	-4.582439233	8.390540e-01
## 267	7.359074e-01	-4.244819673	-4.20831649	-4.723246512	6.060884e-01
## 268	8.030780e-01	-3.706374642	-2.78922062	-2.322129110	7.601323e-01
## 269	8.030780e-01	-2.706374642	0.21077938	4.677870890	7.601323e-01
## 270	-8.332464e+00	0.166199825	-4.03449716	-3.332443979	7.586741e-01
## 271	8.572443e-02	-4.708159595	-5.16768293	-8.514510730	-8.480124e+00
## 272	9.843848e+00	-0.401034594	0.82200358	-0.052378661	8.080607e+00
## 273	-6.627200e-01	-5.368945381	-4.19626432	-2.406775379	9.321109e-01
## 274	6.675363e-01	-1.833800175	-2.03449716	0.667556021	7.586741e-01
## 275	3.568079e-01	-2.453308528	-2.67712984	-3.493880994	5.227920e-01

## 276	1.816212e-01	-2.945391348	-4.07448596	-5.645003141	2.883682e-01
## 277	3.976534e-01	-4.038115770	-4.11796546	-3.144993650	4.491280e-01
## 278	4.251790e-01	-3.864328026	-0.85094917	3.115316473	3.702063e-01
## 279	3.843335e-01	-0.279520785	0.58988646	4.766429129	4.438703e-01
## 280	-2.229166e-02	0.338202616	-1.14594318	-0.264515476	4.394957e-01
## 281	-3.593451e-01	-1.404558009	-2.64850736	-2.478182549	-2.409441e-02
## 282	-2.909739e-01	-2.815577507	-5.82232669	-7.868985082	-1.766801e-01
## 283	-2.909739e-01	-5.815577507	-6.82232669	-11.868985082	-1.766801e-01
## 284	1.828218e-01	-5.894855877	-5.66740117	-8.436923076	-1.826151e-02
## 285	7.359074e-01	-4.244819673	-3.20831649	-0.723246512	6.060884e-01
## 286	8.030780e-01	-2.706374642	-2.78922062	-0.322129110	7.601323e-01
## 287	4.515041e-01	-2.741075754	-2.99101766	-2.832453470	5.979143e-01
## 288	3.843335e-01	-3.279520785	-2.41011354	-0.233570871	4.438703e-01
## 289	3.843335e-01	-2.279520785	0.58988646	6.766429129	4.438703e-01
## 290	-7.859224e+00	0.639415893	-1.63365034	-1.993890485	3.620322e-01
## 291	-4.410361e-01	-3.234943526	-4.76683610	-10.175957236	-7.876766e+00
## 292	8.419681e+00	-0.964384629	-0.93734260	-3.331572538	7.102856e+00
## 293	-7.817382e-01	-7.272268425	-6.00986779	-5.959920437	5.945249e-01
## 294	6.003657e-01	-3.372245206	-2.45359304	-1.733561380	6.046301e-01
## 295	5.595202e-01	-1.787437965	-3.01275741	-4.082448724	6.782942e-01
## 296	4.648240e-01	-3.499670739	-4.69886959	-5.743876249	6.031719e-01
## 297	5.331951e-01	-4.910690237	-4.87268892	-6.134678782	4.505862e-01
## 298	6.278913e-01	-4.198457462	-3.18657674	-4.473251258	5.257085e-01
## 299	8.030780e-01	-2.706374642	-3.78922062	-4.322129110	7.601323e-01
## 300	7.755524e-01	-3.880162386	-3.05623691	-0.582439233	8.390540e-01
## 301	7.359074e-01	-3.244819673	-4.20831649	-2.723246512	6.060884e-01
## 302	4.515041e-01	-3.741075754	-3.99101766	-3.832453470	5.979143e-01
## 303	5.198752e-01	-4.152095251	-3.16483699	-4.223256003	4.453286e-01
## 304	4.790297e-01	-2.567288010	-3.72400136	-5.572143347	5.189926e-01
## 305	6.675363e-01	-3.833800175	-4.03449716	-5.332443979	7.586741e-01
## 306	6.278913e-01	-4.198457462	-4.18657674	-5.473251258	5.257085e-01
## 307	8.030780e-01	-3.706374642	-2.78922062	-1.322129110	7.601323e-01
## 308	8.030780e-01	-2.706374642	-1.78922062	1.677870890	7.601323e-01
## 309	5.595202e-01	-1.787437965	-0.01275741	2.917551276	6.782942e-01
## 310	2.487918e-01	-1.406946318	-2.65539009	-2.243885739	4.424121e-01
## 311	1.855386e-02	-3.246604625	-1.58677881	4.084371868	3.658316e-01
## 312	-7.885549e+00	-1.483836379	-1.49358184	1.953879457	1.343242e-01
## 313	-5.215266e-01	-1.014793572	-2.47808005	-4.665651859	-8.036068e+00
## 314	8.135278e+00	1.539359290	1.27995623	1.559220505	7.094682e+00
## 315	-1.403195e+00	-5.511285132	-5.29513314	-5.282794467	1.227608e-01
## 316	-1.291072e-01	-2.564899701	-2.71711864	-1.806440156	5.248609e-02
## 317	-2.109108e-02	-2.611261912	-1.73885839	1.943564589	1.328660e-01
## 318	-1.291072e-01	-1.564899701	-0.71711864	2.193559844	5.248609e-02
## 319	-3.726650e-01	-0.645963024	0.05934457	0.433240230	-2.935204e-02
## 320	-4.673612e-01	-1.358195798	-0.62676761	0.771812706	-1.044743e-01
## 321	-4.540413e-01	-1.116790784	-0.33461953	3.860389927	-9.921667e-02
## 322	-5.620574e-01	-0.070428573	24.68712022	27.110385181	-1.795966e-01
## 323	2.412721e+01	24.310063074	24.04448754	24.948948166	-4.154787e-01
## 324	2.347992e+01	19.380562237	13.92824447	13.790082441	2.648390e+01
## 325	-4.659023e+00	-11.987218390	-13.11617522	-18.166268011	1.399931e-01
## 326	-5.887980e-01	-6.033765832	-7.61198512	-12.400212810	-6.370078e-01
## 327	2.078454e-01	-6.302666306	-4.92936364	-6.926216633	6.918019e-02
## 328	5.052539e-01	-4.924562967	-1.57887905	-0.853356838	2.998046e-01
## 329	7.200855e-01	-1.067822861	-2.02944334	-0.561427412	7.671941e-01

## 330	4.490021e-01	-2.322673927	-2.51999644	-4.582057149	7.642777e-01
## 331	2.750160e-01	-3.764221275	-3.51026777	-4.525099231	2.232241e-01
## 332	5.582188e-01	-3.318500666	-2.13465139	0.376027662	5.380279e-01
## 333	4.502027e-01	-2.272138455	2.88708836	12.626022916	4.576480e-01
## 334	-9.793355e+00	2.646798222	-1.33644844	0.865703303	3.758099e-01
## 335	-8.622826e-01	-2.389687842	-4.91670780	-11.837002676	-1.002666e+01
## 336	1.014393e+01	-0.702273340	-0.24775139	-4.329954557	8.366831e+00
## 337	-1.300801e+00	-8.312591805	-8.62801193	-10.520262769	3.495785e-01
## 338	5.582188e-01	-5.318500666	-5.13465139	-5.623972338	5.380279e-01
## 339	6.804406e-01	-4.432480148	-4.18152292	-4.702234691	5.342285e-01
## 340	7.476111e-01	-3.894035117	-3.76242704	-4.301117289	6.882724e-01
## 341	7.476111e-01	-3.894035117	-3.76242704	-3.301117289	6.882724e-01
## 342	7.476111e-01	-3.894035117	-3.76242704	-3.301117289	6.882724e-01
## 343	6.395950e-01	-3.847672906	-1.74068729	-2.051122035	6.078925e-01
## 344	6.395950e-01	-1.847672906	-2.74068729	-4.051122035	6.078925e-01
## 345	5.845438e-01	-3.195248394	-4.27471989	-5.571742280	7.657359e-01
## 346	5.857444e-01	-5.144712922	-3.86763509	-4.363662216	4.591062e-01
## 347	6.804406e-01	-3.432480148	-4.18152292	-4.702234691	5.342285e-01
## 348	7.200855e-01	-4.067822861	-2.02944334	-0.561427412	7.671941e-01
## 349	6.804406e-01	-2.432480148	-2.18152292	-1.702234691	5.342285e-01
## 350	4.765277e-01	-2.148886183	-2.25298014	-3.321747026	6.853560e-01
## 351	4.502027e-01	-4.272138455	-3.11291164	-3.373977084	4.576480e-01
## 352	4.502027e-01	-3.272138455	-4.11291164	-4.373977084	4.576480e-01
## 353	5.173732e-01	-3.733693424	-1.69381577	1.027140318	6.116919e-01
## 354	-8.522272e+00	-2.098350711	-3.84589534	-4.113666961	3.787263e-01
## 355	1.657993e-01	-3.768394536	-4.89561281	-8.483184041	-8.550526e+00
## 356	9.936042e+00	-0.270399992	-0.02086302	-1.140554815	8.322093e+00
## 357	-6.773413e-01	-7.141413097	-6.61030638	-7.036876214	7.865869e-01
## 358	7.476111e-01	-3.894035117	-3.76242704	-4.301117289	6.882724e-01
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## 362	7.476111e-01	-2.894035117	-1.76242704	-0.301117289	6.882724e-01
## 363	6.120694e-01	-2.021460650	-2.00770359	1.688567842	6.868142e-01
## 364	4.093571e-01	-2.687331214	-0.67207601	3.277135573	5.313120e-01
## 365	1.813827e-02	-1.086689612	-3.02595264	-1.373996065	1.361284e-01
## 366	-1.449291e-01	-3.387902889	-3.53824548	-2.644621056	2.135918e-01
## 367	-2.242190e-01	-4.117217463	-3.84240464	-5.926235614	-2.523394e-01
## 368	-8.987783e-02	-3.040327402	-4.00421289	-7.124000811	5.574847e-02
## 369	2.341705e-01	-4.179414034	-5.06943214	-6.873986575	2.968882e-01
## 370	3.697122e-01	-5.051988501	-4.82415559	-5.863671706	2.983464e-01
## 371	5.724245e-01	-4.386117937	-1.15978317	1.547760563	4.538486e-01
## 372	6.395950e-01	-0.847672906	-1.74068729	-1.051122035	6.078925e-01
## 373	2.329699e-01	-2.229949506	-2.47651693	-4.082066639	6.035179e-01
## 374	2.750160e-01	-3.764221275	-4.51026777	-5.525099231	2.232241e-01
## 375	3.421866e-01	-4.225776244	-4.09117189	-5.123981829	3.772681e-01
## 376	4.777283e-01	-4.098350711	0.15410466	6.886333039	3.787263e-01
## 377	-8.455101e+00	0.440094319	-1.42679947	2.287450441	5.327703e-01
## 378	-3.213163e-01	-1.930521181	-3.34268640	-8.003823268	-8.714202e+00
## 379	9.314585e+00	0.490583302	-0.30612837	-3.463428846	7.850329e+00
## 380	-1.082766e+00	-7.473154224	-6.93905122	-6.859740754	4.755826e-01
## 381	4.777283e-01	-4.098350711	-3.84589534	-3.113666961	3.787263e-01
## 382	4.368828e-01	-3.513543470	-3.40505972	-3.462554305	4.523904e-01
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## 384	4.368828e-01	-3.513543470	-2.40505972	-2.462554305	4.523904e-01
## 385	3.288667e-01	-2.467181259	-1.38331997	0.787440950	3.720105e-01
## 386	4.093571e-01	-1.687331214	-1.67207601	2.277135573	5.313120e-01
## 387	-9.387358e-03	-2.260477356	-4.29296894	-6.634306188	2.150501e-01
## 388	-1.845740e-01	-4.752560176	-5.69032506	-10.785428335	-1.937380e-02
## 389	3.025416e-01	-5.590433531	-5.24325147	-7.264789108	1.443025e-01
## 390	6.804406e-01	-4.432480148	-4.18152292	-4.702234691	5.342285e-01
## 391	1.747611e+00	-3.894035117	-2.76242704	-3.301117289	6.882724e-01
## 392	7.476111e-01	-2.894035117	-3.76242704	-4.301117289	6.882724e-01
## 393	-3.383016e-01	-4.664089055	-4.61212425	-5.158564029	-1.325182e-01
## 394	6.804406e-01	-4.432480148	-4.18152292	-4.702234691	5.342285e-01
## 395	7.476111e-01	-3.894035117	-3.76242704	-4.301117289	6.882724e-01
## 396	7.476111e-01	-3.894035117	0.23757296	4.698882711	6.882724e-01
## 397	-9.252389e+00	0.105964883	-2.76242704	-2.301117289	6.882724e-01
## 398	9.742815e-02	-3.357375039	-4.72179348	-8.092381508	-9.397940e+00
## 399	1.092726e+01	-0.212578828	0.14272201	0.055464400	9.067761e+00
## 400	-9.362221e-01	-7.396043436	-5.85843145	-6.046285573	7.342469e-01
## 401	6.395950e-01	-2.847672906	-2.74068729	-3.051122035	6.078925e-01
## 402	6.120694e-01	-3.021460650	-3.00770359	-3.311432158	6.868142e-01
## 403	5.448988e-01	-3.559905681	-3.42679947	-3.712549559	5.327703e-01
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## 406	5.448988e-01	-4.559905681	-2.42679947	-0.712549559	5.327703e-01
## 407	5.724245e-01	-2.386117937	-2.15978317	-1.452239437	4.538486e-01
## 408	3.685116e-01	-2.102523972	-2.23124039	-3.071751771	6.049761e-01
## 409	3.421866e-01	-3.225776244	-3.09117189	-3.123981829	3.772681e-01
## 410	3.421866e-01	-3.225776244	-1.09117189	-0.123981829	3.772681e-01
## 411	3.421866e-01	-2.225776244	-1.09117189	-0.123981829	3.772681e-01
## 412	1.791192e-01	-2.526989521	-2.60346474	-2.394606820	4.547315e-01
## 413	1.119486e-01	-77.065434552	-78.02256061	-75.795724222	3.006876e-01
## 414	1.394743e-01	-77.891646808	-75.75554432	-71.535414099	2.217659e-01
## 415	6.958486e+00	-22.919909331	-23.67274758	-21.829476660	5.541132e+00
## 416	6.754573e+00	49.363684634	46.25579520	41.551011006	5.692260e+00
## 417	6.484690e+00	47.159369039	48.17232690	44.738461334	5.382714e+00
## 418	-8.738304e+00	-1.005626290	-2.80241584	-0.613676452	2.179665e-01
## 419	3.025758e-02	-2.895820069	-2.14088936	-0.493498909	-8.551984e+00
## 420	9.409281e+00	2.202816076	2.37998380	4.197998679	7.925451e+00
## 421	-1.475185e+00	-4.923048095	-5.70001264	-3.718952457	3.870286e-01
## 422	-1.845740e-01	-3.752560176	-3.69032506	-5.785428335	-1.937380e-02
## 423	-2.650645e-01	-3.532410222	-3.40156901	-4.275122958	-1.786754e-01
## 424	2.341705e-01	-3.179414034	-2.06943214	1.126013425	2.968882e-01
## 425	1.813827e-02	-2.086689612	-2.02595264	-1.373996065	1.361284e-01
## 426	-1.174035e-01	-2.214115146	-2.27122919	-1.384310934	1.346702e-01
## 427	-7.655793e-02	-2.798922387	-2.71206481	-1.035423590	6.100611e-02
## 428	-1.845740e-01	-2.752560176	0.30967494	4.214571665	-1.937380e-02
## 429	-1.845740e-01	0.247439824	1.30967494	5.214571665	-1.937380e-02
## 430	-5.911992e-01	0.865163224	-1.42615470	-0.816372940	-2.374846e-02
## 431	-8.202365e-01	-2.923959611	-3.95045863	-5.280035268	-4.069586e-01
## 432	-7.243397e-01	-4.161191365	-5.85726166	-8.410527678	-6.384660e-01
## 433	-3.464408e-01	-5.003237981	-4.79553311	-8.847973261	-2.485400e-01
## 434	-8.186770e-03	-4.209941884	-1.88588414	-2.426226123	-9.157962e-02
## 435	4.502027e-01	-1.272138455	-2.11291164	0.626022916	4.576480e-01
## 436	1.791192e-01	-2.526989521	-3.60346474	-4.394606820	4.547315e-01
## 437	-3.571240e-02	-4.383729628	-6.15290044	-9.686536246	-1.265794e-02

## 438	2.750160e-01	-5.764221275	-3.51026777	-0.525099231	2.232241e-01
## 439	-7.386730e+00	-2.970925178	-3.60061880	-2.103352093	3.801845e-01
## 440	1.524794e-01	-3.009799551	-4.18776089	-6.571761262	-8.555784e+00
## 441	8.836809e+00	-0.281858945	1.83729169	3.913421225	7.496045e+00
## 442	-8.933735e-01	-5.048688675	-3.56682687	-2.536885705	6.258271e-01
## 443	2.604955e-01	-1.056161762	-1.20950064	-1.821756517	5.245962e-01
## 444	2.066448e-01	-2.353201778	-4.33644844	-4.134296697	3.758099e-01
## 445	1.394743e-01	-4.891646808	-4.75554432	-5.535414099	2.217659e-01
## 446	1.945255e-01	-4.544071321	-4.22151172	-5.014793854	6.392255e-02
## 447	4.368828e-01	-3.513543470	-2.40505972	-2.462554305	4.523904e-01
## 448	4.368828e-01	-2.513543470	22.59494028	23.537445695	1.452390e+00
## 449	2.540936e+01	22.312668786	24.32792399	27.277135573	1.531312e+00
## 450	2.469689e+01	19.776884920	17.52502524	18.877664971	2.724189e+01
## 451	-3.713132e+00	-8.845746773	-8.00994754	-7.099315218	8.950678e-01
## 452	8.812951e-01	-2.745177847	-2.39312317	-1.925834548	9.944039e-01
## 453	7.732790e-01	-2.698815636	-0.37138342	-1.675839293	9.140240e-01
## 454	-2.622735e-02	-1.040451491	0.29406075	0.736433449	6.665174e-02
## 455	2.673749e-02	-0.434389190	-0.26171160	0.965817949	3.048750e-01
## 456	-2.431454e-01	-1.638704784	-1.34517990	-0.846731722	-4.671120e-03
## 457	-3.103159e-01	-2.177149815	-1.76427577	-1.247849124	-1.587151e-01
## 458	-3.103159e-01	-2.177149815	3.23572423	8.752150876	-1.587151e-01
## 459	-9.310316e+00	2.822850185	-0.76427577	1.752150876	-1.587151e-01
## 460	-9.880246e-01	-1.814277480	-1.99065851	-3.299423465	-9.166006e+00
## 461	8.635758e+00	1.415957459	2.16083624	4.360473802	7.086638e+00
## 462	-1.978826e+00	-3.505591117	-2.83569190	-8.743927662	-1.422387e-01
## 463	-7.290604e-01	-5.750295957	-5.38516870	-8.159290885	-4.749770e-01
## 464	4.037216e-02	-7.833426417	-7.24519888	-5.820680446	9.293991e-02
## 465	8.178875e-02	-6.086813702	-5.72767900	-7.513561805	1.470316e-01
## 466	3.925171e-01	-6.467305349	-6.08504633	-0.352124790	3.829137e-01
## 467	5.819095e-01	-3.042839800	-2.71282198	3.970730259	5.331583e-01
## 468	2.850914e-02	-0.052433761	0.10372870	5.132129311	1.260011e-01
## 469	-2.688993e-01	1.569462900	1.75324410	0.059269517	-1.046233e-01
## 470	-7.823400e-01	-1.715916016	-1.55376099	-6.513599769	-4.960076e-01
## 471	-4.183320e-01	-6.130787604	-5.74253602	-7.997853869	-2.390950e-01
## 472	-1.209235e-01	-5.752684266	-5.39205142	-6.924994075	-8.470533e-03
## 473	2.845010e-01	-5.420943138	-5.06330657	-4.102129535	3.025338e-01
## 474	3.791972e-01	-4.708710364	-4.37719440	1.559297989	3.776561e-01
## 475	3.658773e-01	-0.950115378	-0.66934247	1.470720768	3.723984e-01
## 476	-1.742032e-01	-0.718304325	-0.56064372	-2.279302959	-2.950107e-02
## 477	-1.342434e-01	-2.994089281	-2.68419950	-4.013571296	-1.372817e-02
## 478	-1.342434e-01	-3.994089281	-3.68419950	-5.013571296	-1.372817e-02
## 479	8.178875e-02	-4.086813702	-3.72767900	2.486438195	1.470316e-01
## 480	-7.823515e+00	1.625419073	1.95843318	-2.852134281	2.221539e-01
## 481	-4.716116e-01	-3.096407663	-2.91112832	-8.352162753	-8.260126e+00
## 482	8.710182e+00	-2.397426298	-1.91937917	1.367844755	7.446140e+00
## 483	-9.224162e-01	-5.828883538	-5.22222520	-8.177366445	5.268524e-01
## 484	2.845010e-01	-5.420943138	-5.06330657	-6.102129535	3.025338e-01
## 485	6.085493e-01	-5.560029770	-5.12852583	0.147884701	5.436735e-01
## 486	5.819095e-01	-2.042839800	-1.71282198	-0.029269741	5.331583e-01
## 487	1.498451e-01	-1.857390957	-1.62586297	-4.029288723	2.116386e-01
## 488	1.764849e-01	-4.374580927	-4.04156682	-3.852134281	2.221539e-01
## 489	2.845010e-01	-3.420943138	-3.06330657	-4.102129535	3.025338e-01
## 490	2.711811e-01	-3.662348153	-3.35545465	2.809293244	2.972762e-01
## 491	3.925171e-01	1.532694651	1.91495367	3.647875210	3.829137e-01



## 492	-3.769154e-01	2.615825111	2.77498386	-4.690735229	-1.850032e-01
## 493	-2.969960e-01	-3.935744800	-3.47212770	-6.159271903	-1.534574e-01
## 494	2.705225e-02	-6.074831432	-5.53734695	-2.909257667	8.768228e-02
## 495	2.164446e-01	-2.650365883	-2.16512260	0.413597382	2.379268e-01
## 496	8.178875e-02	-0.086813702	0.27232100	-1.513561805	1.470316e-01
## 497	-1.076036e-01	-2.511279251	-2.09990335	-1.836416854	-3.212898e-03
## 498	1.373235e-02	-2.316236447	-1.82949502	3.002165112	8.242464e-02
## 499	-7.107604e+00	1.488720749	1.90009665	5.163583146	-3.212898e-03
## 500	-5.263481e-01	2.915574607	3.27920373	4.252141385	-7.319475e+00
## 501	6.598273e+00	4.952739644	5.29963358	4.447815127	5.753144e+00
## 502	-2.055882e+00	-2.752537115	-2.04041094	-3.870828532	-4.988074e-01
## 503	-7.837969e-01	-0.738313687	-0.19483665	-1.554986746	-5.343264e-01
## 504	-6.757808e-01	-0.784675898	-0.21657640	4.195017999	-4.539465e-01
## 505	-5.677647e-01	2.168961891	2.76168385	3.945022745	-3.735666e-01
## 506	-1.107845e+00	1.400772945	1.87038261	-0.805000982	-7.754661e-01
## 507	-9.598694e-01	-0.921374221	-0.27491292	-0.789264574	-6.793133e-01
## 508	-8.651732e-01	-0.209141447	0.41119925	0.872162951	-6.041910e-01
## 509	-7.571571e-01	-0.255503658	0.38945950	11.622167696	-5.238111e-01
## 510	-8.651732e-01	9.790858553	10.41119925	6.872162951	-6.041910e-01
## 511	-9.453342e-01	7.254480660	7.62859676	-1.627884504	-4.079901e-01
## 512	-3.800708e-01	-2.516918035	-1.53688150	2.257906688	-3.389412e-02
## 513	-1.219537e+00	1.417231066	2.25211845	2.404447768	-8.970392e-01
## 514	-1.246177e+00	2.934421036	3.66782230	21.227293326	9.244548e-02
## 515	2.378046e+01	18.417231066	19.25211845	24.404447768	1.029608e-01
## 516	2.187902e+01	23.599105619	23.93503854	11.413762218	2.254770e+01
## 517	-4.678266e+00	-2.064577358	-0.60024771	-4.258854671	-9.686460e-02
## 518	-1.112251e+00	2.171226110	3.06684022	2.571160196	-8.291699e-01
## 519	-1.085611e+00	0.654036140	1.65113637	2.748314638	-8.186546e-01
## 520	-1.193627e+00	9.700398351	10.67287612	9.998309892	-8.990345e-01
## 521	-1.193627e+00	7.700398351	8.67287612	9.998309892	1.110097e+01
## 522	-1.937877e+00	5.243941170	6.47612680	7.795466918	-1.494755e+00
## 523	8.458590e-01	-0.626958261	0.13020859	1.731167840	-8.417482e-01
## 524	-1.235286e+00	-7.134162169	-5.87435780	-2.277392877	-7.253794e-01
## 525	-1.317182e+00	0.497849128	1.40353954	3.160568399	-9.875464e-01
## 526	-1.425198e+00	0.544211338	1.42527929	2.410563653	-1.067926e+00
## 527	-1.425198e+00	0.544211338	1.42527929	2.410563653	-1.067926e+00
## 528	-1.425198e+00	0.544211338	1.42527929	3.410563653	-1.067926e+00
## 529	-1.425198e+00	-1.455788662	-0.57472071	0.410563653	-1.067926e+00
## 530	-1.533214e+00	-1.409426451	-0.55298096	-1.339441092	-1.148306e+00
## 531	-1.235806e+00	1.968676887	2.79750364	5.733418702	-9.176818e-01
## 532	-1.127790e+00	1.922314677	2.77576389	5.483423447	-8.373019e-01
## 533	-1.641230e+00	-0.363064240	0.46875879	0.910554162	-1.228686e+00
## 534	-1.533214e+00	-2.409426451	-1.55298096	-0.339441092	-1.148306e+00
## 535	-1.438518e+00	-1.697193676	-0.86686878	-0.678013568	-1.073184e+00
## 536	-1.249126e+00	-0.272728128	0.50535556	-1.355158519	7.706057e-02
## 537	-1.141110e+00	0.680909662	1.48361581	0.394846226	1.574405e-01
## 538	-7.742127e-01	-0.110822210	0.71000114	2.154260331	2.901605e-01
## 539	-8.689089e-01	-0.823054984	0.02388897	2.492832806	2.150382e-01
## 540	-8.822288e-01	0.935540001	1.73174089	2.404255585	2.097805e-01
## 541	-9.902449e-01	3.981902212	5.75348064	6.654250840	1.294006e-01
## 542	-9.769250e-01	2.223307227	3.04562872	5.742828061	-8.653417e-01
## 543	-1.396555e+00	-0.040816630	0.74201565	1.748230620	-9.216675e-02
## 544	-1.533214e+00	0.590573549	1.44701904	0.660558908	-1.483062e-01
## 545	-2.743335e-01	-1.154796112	-0.30485588	-0.330031733	-9.596616e-02

## 546	-1.663174e-01	-2.201158322	-1.32659563	-0.580026988	-1.558626e-02
## 547	-1.035312e+00	-0.372958968	0.46294781	1.145691445	-7.650540e-01
## 548	-9.406160e-01	0.339273807	1.14905998	1.807118969	-6.899317e-01
## 549	-1.035312e+00	0.627041032	1.46294781	2.145691445	-7.650540e-01
## 550	-1.035312e+00	1.627041032	2.46294781	2.145691445	-7.650540e-01
## 551	-1.130008e+00	0.914808258	1.77683563	3.484263920	-8.401763e-01
## 552	-1.116688e+00	3.156213272	4.06898371	7.572841141	-8.349187e-01
## 553	-1.332721e+00	0.248937694	1.11246321	2.072831650	-9.956785e-01
## 554	-1.724825e+00	-0.841398419	0.07586643	-1.661455668	-1.301425e+00
## 555	-1.332721e+00	-0.751062306	0.11246321	0.072831650	-9.956785e-01
## 556	-1.211385e+00	-4.556019502	-3.61712847	-3.088586383	-9.100409e-01
## 557	-1.130008e+00	-6.085191742	-5.22316437	-6.515736080	-8.401763e-01
## 558	-7.379037e-01	-3.994855630	-3.18656760	-1.781448761	-5.344296e-01
## 559	-3.457990e-01	6.095480483	6.85002918	7.952838558	-2.286829e-01
## 560	-5.618312e-01	5.188204905	5.89350868	5.452829067	-3.894427e-01
## 561	-1.211385e+00	-0.556019502	0.38287153	-0.088586383	-9.100409e-01
## 562	-1.116688e+00	0.156213272	1.06898371	0.572841141	-8.349187e-01
## 563	-1.008672e+00	8.109851062	9.04724395	10.322845887	-7.545387e-01
## 564	-1.008672e+00	7.109851062	8.04724395	10.322845887	-7.545387e-01
## 565	-1.874258e+00	0.458351077	1.58008631	3.281420946	-1.435897e+00
## 566	-1.887578e+00	-2.783053938	-1.71206177	-1.807156275	-1.441154e+00
## 567	-1.792882e+00	-4.070821164	-3.02594959	-3.145728751	-1.366032e+00
## 568	-1.306081e+00	-2.268252277	-1.30324064	-1.750013908	-9.851632e-01
## 569	-1.116688e+00	-2.843786728	-1.93101629	-2.427158859	-8.349187e-01
## 570	-9.139762e-01	-3.177916164	-2.26664387	-1.015726589	-6.794165e-01
## 571	-7.245838e-01	-2.753450615	-1.89441952	-1.692871540	-5.291719e-01
## 572	-7.379037e-01	1.005144370	1.81343240	2.218551239	-5.344296e-01
## 573	1.946481e+01	20.671014934	21.47780483	22.629983509	-3.789274e-01
## 574	1.907270e+01	18.580678821	19.44120806	20.895696190	1.931533e+01
## 575	-3.894266e+00	-8.877067782	-7.24854148	-4.614159102	-1.062432e-01
## 576	-9.849895e-01	-3.810854573	-2.82950516	-2.176071574	-7.474197e-01
## 577	9.638684e-02	-3.340026813	-2.43554106	-2.603221271	3.224450e-01
## 578	2.990991e-01	-2.674156250	-1.77116864	-1.191789001	1.477947e+00
## 579	-5.137272e-01	4.742802880	5.60212746	4.131906521	6.253173e-01
## 580	-3.628625e-01	4.043795430	4.87199228	3.391311135	5.972775e-01
## 581	-8.097037e-01	-1.034558413	0.02572756	-0.738672046	2.321814e-01
## 582	-7.150075e-01	-1.322325638	-0.28816027	-0.077244521	3.073037e-01
## 583	-6.069914e-01	0.631312151	1.69009998	3.672760224	-6.123164e-01
## 584	-1.620311e+00	21.389907136	22.39795191	22.584183003	-6.175741e-01
## 585	-1.068584e+00	9.710811248	10.77760248	12.251918595	-8.201587e-01
## 586	-1.796105e+00	-6.983940258	-4.38369985	-3.629490531	-1.342512e+00
## 587	-2.123562e+00	-2.365154286	-1.06177951	-2.112361394	-1.651761e+00
## 588	-1.650967e+00	-5.494968128	-4.31393879	-2.888379453	-1.186713e+00
## 589	-1.434049e+00	-6.896714835	-5.67469814	-5.305214281	-1.115390e+00
## 590	-1.068584e+00	-3.289188752	-2.22239752	-2.748081405	-8.201587e-01
## 591	-6.764797e-01	-2.198852639	-1.18580074	-0.013794086	-5.144120e-01
## 592	-6.764797e-01	-1.198852639	-0.18580074	0.986205914	-5.144120e-01
## 593	-6.897996e-01	-0.440257654	0.52205118	0.897628693	-5.196696e-01
## 594	-7.844958e-01	3.847509572	4.83593901	5.236201169	-5.947919e-01
## 595	-7.844958e-01	1.847509572	3.83593901	2.236201169	-5.947919e-01
## 596	-1.257977e+00	-4.713654301	-3.59462187	-3.070936454	-9.704032e-01
## 597	-8.800779e-01	-2.555700917	-1.53289332	-0.508382037	-5.804772e-01
## 598	-7.844958e-01	-2.152490428	-1.16406099	-1.763798831	-5.947919e-01
## 599	-7.711759e-01	-2.911085414	-1.87191292	-2.675221610	-5.895342e-01

## 600	-5.817835e-01	1.513380135	2.50031143	1.647633438	-4.392897e-01
## 601	-4.737674e-01	-1.532982075	-0.52142832	-0.602361816	-3.589098e-01
## 602	-7.578560e-01	-0.669680399	0.42023516	0.413355611	-5.842766e-01
## 603	-4.737674e-01	-0.532982075	0.47857168	0.397638184	-3.589098e-01
## 604	-7.578560e-01	-3.669680399	-2.57976484	-1.586644389	-5.842766e-01
## 605	-1.568464e+00	2.754785150	3.79245950	4.736210659	-4.340321e-01
## 606	-1.581784e+00	-1.486619865	-0.49968857	-0.352366562	-4.392897e-01
## 607	3.122613e-03	-0.451517543	0.65243147	-0.062367567	8.481125e-02
## 608	-5.233964e-01	-3.890353670	-2.91700766	-1.755229945	4.604226e-01
## 609	-8.525522e-01	-6.381913173	-5.26587702	-4.248071914	-6.593989e-01
## 610	6.526761e-01	1.292706864	2.16306862	0.479047883	6.054095e-01
## 611	-3.923912e-01	0.937845684	1.87253578	0.970488487	-2.890452e-01
## 612	-4.737674e-01	2.467017925	3.47857168	3.397638184	-3.589098e-01
## 613	-5.684636e-01	-1.245214850	-0.20754050	1.736210659	-4.340321e-01
## 614	-8.525522e-01	-1.381913173	-0.26587702	0.751928086	-6.593989e-01
## 615	-7.844958e-01	2.847509572	3.83593901	3.236201169	-5.947919e-01
## 616	-8.658721e-01	7.376681812	8.44197491	7.663350865	-6.646565e-01
## 617	-1.055265e+00	6.952216263	8.06975056	7.340495816	-8.149010e-01
## 618	-1.515426e+00	-5.367542595	-4.06866224	-4.878064585	-1.852548e-01
## 619	-1.610122e+00	-7.079775369	-5.75477442	-5.539492109	-2.603770e-01
## 620	-5.936715e-01	-2.127282834	-1.01775194	0.761337445	3.929412e-01
## 621	-6.069914e-01	-0.368687849	0.69009998	0.672760224	3.876836e-01
## 622	-6.203113e-01	3.389907136	4.39795191	4.584183003	3.824259e-01
## 623	-6.069914e-01	4.631312151	5.69009998	5.672760224	3.876836e-01
## 624	-9.990961e-01	2.540976038	3.65350321	2.938472906	8.193686e-02
## 625	-1.080472e+00	1.070148279	2.25953911	2.365622602	1.207222e-02
## 626	-1.080472e+00	-0.929851721	0.25953911	0.365622602	1.207222e-02
## 627	-1.080472e+00	-0.929851721	0.25953911	0.365622602	1.207222e-02
## 628	-8.910800e-01	3.494613828	4.63176346	5.688477651	1.623168e-01
## 629	-8.910800e-01	1.494613828	2.63176346	3.688477651	-8.376832e-01
## 630	-1.283185e+00	-0.595722285	0.59516669	0.954190332	-1.434300e-01
## 631	-1.244657e+00	-1.472249286	-0.30247379	1.017640767	3.485442e-02
## 632	-1.093792e+00	-1.171256736	-0.03260896	1.277045381	6.814587e-03
## 633	-1.012416e+00	1.299571024	2.36135514	1.849895685	7.667922e-02
## 634	-1.012416e+00	1.299571024	2.36135514	1.849895685	7.667922e-02
## 635	9.039391e-04	0.540976038	1.65350321	1.938472906	8.193686e-02
## 636	-9.990961e-01	-0.459023962	0.65350321	1.938472906	8.193686e-02
## 637	-2.057483e+00	-1.055290156	0.07082230	2.341336289	-8.177754e-01
## 638	-1.012416e+00	6.299571024	7.36135514	7.849895685	7.667922e-02
## 639	-1.120432e+00	0.345933234	1.38309489	1.099890939	-3.700683e-03
## 640	-5.805931e-01	-4.973825623	-3.75531791	-4.118669462	-3.740544e-01
## 641	-1.241596e-02	-0.700428976	0.36135514	-0.150104315	7.667922e-02
## 642	-8.680908e-01	-0.630824607	0.44304665	0.664191338	-6.675309e-01
## 643	-8.680908e-01	3.369175393	4.44304665	3.664191338	-6.675309e-01
## 644	-8.680908e-01	0.369175393	1.44304665	1.664191338	3.324691e-01
## 645	-1.138859e+00	-2.526117916	-1.32314180	-1.231514014	1.123599e-01
## 646	2.418808e+01	23.957935168	25.02679930	24.262168427	2.293070e-01
## 647	2.429609e+01	32.911572958	34.00505955	34.012173173	2.530969e+01
## 648	-4.436293e+00	-3.088668491	-1.02865541	0.209497177	1.013945e+00
## 649	-1.516943e+00	-3.973949713	-2.45704427	-1.258235202	-3.631511e-01
## 650	-1.246174e+00	-1.078656404	0.30914418	0.637470151	-1.430420e-01
## 651	-5.678158e-02	-0.654190855	0.68136853	-0.039674801	7.202579e-03
## 652	-5.678158e-02	-3.654190855	-2.31863147	-2.039674801	7.202579e-03
## 653	-9.124564e-01	-4.584586486	-3.23693996	-2.225379147	-7.370075e-01

## 654	-7.363839e-01	-1.401525952	-0.15686369	-0.991101319	-5.920206e-01
## 655	-6.416877e-01	1.310706823	2.52924849	1.670326205	-5.168984e-01
## 656	-6.283678e-01	0.552111838	1.82139656	2.758903426	-5.116407e-01
## 657	-8.177602e-01	2.127646289	3.44917221	4.436048377	-6.618853e-01
## 658	-9.257763e-01	0.174008499	1.47091196	0.686043632	-7.422652e-01
## 659	-1.209865e+00	-1.962689824	-0.58742456	-1.298238941	-9.676320e-01
## 660	-9.124564e-01	0.415413514	1.76306004	1.774620853	2.629925e-01
## 661	-9.124564e-01	-0.584586486	0.76306004	1.774620853	2.629925e-01
## 662	-8.562880e-01	-0.995826710	0.34681269	0.372597942	1.598304e-01
## 663	-8.696079e-01	-2.237231725	-0.94533538	-0.715979279	1.545727e-01
## 664	-7.615918e-01	-1.283593936	0.03292487	1.034025467	1.234953e+00
## 665	3.197845e-01	1.187233824	2.42688897	2.606875770	1.304817e+00
## 666	3.759530e-01	0.775993599	2.01064162	2.204852859	1.201655e+00
## 667	-7.771303e-01	-0.532505370	0.74184854	-0.053711282	2.268206e-01
## 668	-7.771303e-01	-0.532505370	0.74184854	-0.053711282	2.268206e-01
## 669	-6.691142e-01	1.421132420	2.72010879	4.696293464	3.072005e-01
## 670	-6.691142e-01	2.421132420	3.72010879	4.696293464	3.072005e-01
## 671	-1.074539e+00	5.089391292	6.39136394	4.873428924	-3.803846e-03
## 672	-1.061219e+00	3.330796307	4.68351201	3.962006145	-9.985462e-01
## 673	-1.331988e+00	-0.564497002	0.91732356	0.066300793	-2.186554e-01
## 674	-1.388156e+00	-6.153256777	-4.66642909	-3.531676296	-1.154933e-01
## 675	-1.034579e+00	-1.186393664	0.26780816	1.139160587	1.196906e-02
## 676	-6.824342e-01	2.179727405	3.42796071	2.607716243	3.019429e-01
## 677	-9.532028e-01	-2.715565904	-1.33822774	0.712010891	-9.181663e-01
## 678	-8.585066e-01	-2.003333129	-0.65211556	1.373438415	1.569560e-01
## 679	-1.036011e+00	8.212864291	9.49372346	8.936879359	1.744805e-01
## 680	-8.851464e-01	7.513856841	8.76358829	7.196283973	1.464407e-01
## 681	-1.629396e+00	-1.942600340	-0.43316104	-0.006559001	-4.492798e-01
## 682	-1.426684e+00	-5.276729776	-3.76878861	-2.595126732	-2.937777e-01
## 683	-1.250611e+00	-4.093669242	-2.68871234	-3.360848904	-1.487907e-01
## 684	-8.718265e-01	3.755261856	5.05573636	4.284861194	1.516983e-01
## 685	-6.691142e-01	0.421132420	1.72010879	2.696293464	3.072005e-01
## 686	-1.142595e+00	-4.140031453	-2.71045209	-1.610844158	-6.841084e-02
## 687	-8.718265e-01	0.755261856	2.05573636	0.284861194	1.516983e-01
## 688	-7.771303e-01	5.467494630	6.74184854	5.946288718	2.268206e-01
## 689	-7.504905e-01	7.950304660	9.32614469	10.123443160	2.373359e-01
## 690	-1.237291e+00	0.147735773	1.60343574	1.727728317	-1.435331e-01
## 691	-1.616076e+00	-1.701195325	-0.14101296	3.082018220	-1.444022e+00
## 692	1.085740e+01	12.859968547	0.28954791	-1.610844158	-6.841084e-02
## 693	7.287796e+00	7.985829855	-0.60120984	-4.781690533	1.064337e+01
## 694	-1.337820e+01	-12.501715088	-12.24122044	-11.569262639	-4.710569e+00
## 695	-1.127485e+01	-8.248218333	-4.84828109	-5.319932433	-9.703695e+00
## 696	-2.803472e+00	1.146643773	1.64509477	1.398191248	-4.348827e+00
## 697	4.467742e-01	2.922687094	2.20275046	2.807411016	-8.039380e-01
## 698	8.465192e-01	1.701414368	1.26281614	1.138385151	-3.316400e-02
## 699	8.720961e+00	10.566703143	0.26103936	0.140131132	-8.692025e-02
## 700	9.813439e+00	11.271429499	0.94822327	-0.197600870	7.985328e+00
## 701	-1.232886e+00	-1.178424008	-8.21699886	-9.323599821	3.194376e-01
## 702	9.021441e+00	10.579381568	-7.66142915	-8.094654310	-2.727088e+00
## 703	9.515899e+00	11.854522923	14.29917317	14.823526337	9.424633e+00
## 704	-1.016100e+00	0.071706897	3.00976368	3.583327525	-3.138646e+00
## 705	3.110440e+00	4.087943506	1.66146737	1.478825093	1.104726e+00
## 706	7.756303e-01	2.055973536	-0.19285516	-0.375970155	1.179297e+00
## 707	7.590736e-01	1.850091155	-2.07577495	-2.254786366	-1.138339e+00

## 708	5.106080e+01	56.452076255	-1.53604530	-2.735977139	8.055812e-01
## 709	6.380969e+01	69.182653805	-3.53959887	-3.732485175	4.869807e+01
## 710	-3.232713e+01	-34.151064682	-54.78683184	-53.980841712	1.041838e+01
## 711	-6.877528e+01	-61.075743352	-56.29850248	-56.734426046	-4.687033e+01
## 712	-2.615415e+01	-12.480180947	-10.08397917	-10.907609110	-3.137046e+01
## 713	6.697802e-02	6.040430072	5.33120920	4.866830029	-7.105538e+00
## 714	5.554250e+00	6.048742319	2.63464689	2.453058148	7.662746e-01
## 715	-3.840178e-01	0.812802150	-0.29913495	-0.439355554	2.953005e+00
## 716	-7.517349e+00	-4.585612620	-3.34741657	-4.512444998	-4.164056e+00
## 717	-3.604388e+00	-1.515953776	0.31827723	-0.881181890	-4.268990e+00
## 718	2.360537e+00	6.400395009	2.07317748	1.684253667	-1.097266e+00
## 719	-2.024886e+00	3.035862389	1.68267887	1.307157227	2.140898e+00
## 720	-5.603071e+00	-3.983606378	-2.57993912	-1.890957032	-5.482503e+00
## 721	-7.154169e-01	1.919771142	1.81766664	2.479155480	-1.505641e+00
## 722	-1.292550e+00	0.839053214	1.59813883	1.493767083	-1.165774e+00
## 723	-3.597210e-01	-0.699391817	1.17904295	0.092649681	-1.319818e+00
## 724	1.707450e+00	0.839053214	1.59813883	0.493767083	-1.657742e-01
## 725	-1.175751e+00	-0.265130160	1.41281404	1.047752614	1.168937e+00
## 726	-4.208831e+00	-2.695115030	0.09822117	-0.288233407	-2.812571e+00
## 727	-1.723157e+00	0.637847489	2.22240853	1.825966455	-1.915182e+00
## 728	-1.899329e+00	0.170573615	2.68445566	2.305411245	-8.053462e-01
## 729	1.688264e+01	18.331136034	1.99549495	1.644889230	-1.931350e+00
## 730	7.008194e+00	8.465847259	2.99727174	3.643143248	1.812241e+01
## 731	-2.052827e+01	-20.394658567	-16.30635205	-15.583087709	-1.287092e+01
## 732	-6.388720e+00	-2.147614432	-0.13763589	-1.423610596	-7.892741e+00
## 733	-3.227714e+00	-0.111820100	3.32360759	2.113580164	-2.107721e+00
## 734	-1.966499e+00	-1.367871416	2.26535978	1.904293844	-2.959390e+00
## 735	-8.662484e-01	-0.399441516	3.99904853	3.641397266	1.761622e-01
## 736	2.773635e+00	1.402307190	2.87663796	2.525451422	-1.667470e+00
## 737	5.005750e-02	1.838010965	4.14827958	4.783110054	4.358246e+00
## 738	-5.594255e+00	-4.059647649	-0.29227743	0.334670154	-4.574408e+00
## 739	-6.472283e-01	1.415187119	3.82860598	3.671352344	-1.042093e+00
## 740	3.816484e+00	4.749661950	3.16824254	3.034851291	-7.758902e-01
## 741	-2.506869e-01	1.211216920	2.74914666	2.633733889	4.070066e+00
## 742	-5.811305e+00	-4.923894175	-1.84064140	-1.956418800	-5.044671e+00
## 743	-6.219213e-01	0.581468444	3.09669402	2.932502939	-1.123890e+00
## 744	-1.158209e+00	0.915943275	2.43633058	2.296001886	-8.576863e-01
## 745	-1.158209e+00	-1.084056725	2.43633058	2.296001886	-8.576863e-01
## 746	-1.225380e+00	-1.622501755	2.01723471	1.894884485	-1.011730e+00
## 747	-1.091039e+00	-1.545611694	2.85542646	2.697119288	-7.036423e-01
## 748	1.690896e+01	19.454388306	2.85542646	2.697119288	-7.036423e-01
## 749	-2.023868e+00	-0.007166663	3.27452234	3.098236690	1.745040e+01
## 750	-2.248542e+01	-22.047303807	-16.01474747	-16.073687841	-2.097934e+01
## 751	1.682912e+00	5.468520399	8.29567428	7.963538950	-1.308647e+00
## 752	-1.183516e+00	-0.250338050	3.16824254	3.034851291	-7.758902e-01
## 753	-1.835163e-01	-0.250338050	3.16824254	3.034851291	-7.758902e-01
## 754	-1.183516e+00	0.749661950	3.16824254	3.034851291	2.241098e-01
## 755	-2.241903e+00	-0.846604244	2.58556163	2.437714674	-1.675602e+00
## 756	-9.982221e-02	0.512209470	3.01901149	2.893138503	-9.579740e-01
## 757	8.164837e-01	1.749661950	3.16824254	3.034851291	2.241098e-01
## 758	6.909260e-01	2.614950725	2.16646575	2.036597273	1.703536e-01
## 759	3.716233e+00	5.781232050	1.43455379	1.297747868	8.855748e-02
## 760	-2.325631e+00	-0.590931656	0.28354596	0.157781062	2.852717e+00
## 761	-4.676997e+00	-3.828784006	-3.45369636	-3.575830397	-6.390347e+00

## 762	7.554250e+00	8.048742319	2.63464689	2.453058148	7.662746e-01
## 763	1.615982e+00	1.812802150	0.70086505	-0.439355554	4.953005e+00
## 764	-9.768464e+00	-7.855035070	-4.35097014	-5.508953034	-5.271568e+00
## 765	-6.406113e+00	-2.865096050	-0.01520686	-0.468068675	-6.119237e+00
## 766	-1.448953e+00	1.066044845	2.49512189	3.084465559	-1.892340e+00
## 767	5.975211e-03	0.458340840	1.99834348	2.643983721	-8.804685e-01
## 768	3.774620e+00	3.377498245	3.01723471	1.894884485	-1.173023e-02
## 769	1.871623e+01	24.781232050	2.43455379	1.297747868	3.088557e+00
## 770	-2.487472e+00	1.861674776	0.82765130	-0.545051566	1.515884e+01
## 771	-1.829596e+01	-18.320404810	-18.63589324	-18.886201811	-1.973768e+01
## 772	3.439661e+00	7.468519179	2.99456880	3.266209618	2.738453e-01
## 773	-1.294777e+00	0.553051139	-2.20272275	-2.567326547	-1.287125e+00
## 774	-1.060218e+00	0.616591209	-2.08208897	-2.449634721	-1.497249e+00
## 775	-9.930477e-01	1.155036239	-1.66299310	-2.048517319	-1.343205e+00
## 776	-1.993048e+00	0.155036239	-1.66299310	-2.048517319	-1.343205e+00
## 777	-1.993048e+00	0.155036239	-1.66299310	-2.048517319	-2.343205e+00
## 778	-2.867490e+00	0.289747464	-0.66121631	-1.050263301	-1.289449e+00
## 779	-3.018355e+00	-0.011245086	-0.93108114	-1.309667915	-3.261409e+00
## 780	2.165590e+00	4.719732334	0.65337656	0.285722720	-1.307940e+00
## 781	1.863861e+00	4.117747234	0.11364690	-0.233086508	1.748139e+00
## 782	2.487188e+00	3.713613559	-2.89168346	-3.227848562	-1.413130e+00
## 783	1.939782e+00	4.616591209	-1.08208897	-1.449634721	2.502751e+00
## 784	-4.495279e+00	-6.383808661	-3.67010025	-4.041533392	-2.558230e+00
## 785	-2.860958e+00	-5.757360011	-2.27497632	-1.667088443	-1.691755e+00
## 786	-4.523804e-01	-1.270492701	3.28717551	3.815291865	1.292938e+00
## 787	-4.932260e-01	-0.685685460	-0.27198886	-0.533595479	-6.333976e-01
## 788	-5.482772e-01	-1.033260947	-0.80602146	-1.054215724	5.244457e-01
## 789	-7.399040e-01	0.059904928	3.72231408	3.468215539	1.264839e+00
## 790	4.109606e-01	-0.639102522	4.99217891	4.727620153	3.236799e+00
## 791	3.845522e-01	1.428294022	32.77488267	32.544666874	3.137040e+01
## 792	-3.324607e-01	0.798670214	7.88401099	7.607146764	8.647575e+00
## 793	-1.108005e+00	-1.428718051	2.43946591	2.118130182	5.689057e+00
## 794	-4.671716e+00	-3.167415523	-1.40305698	-1.679900848	-2.513065e+00
## 795	-6.628417e-01	-1.137389847	1.59265604	1.316737260	4.984329e-01
## 796	-5.228790e-01	-1.779132783	2.62136465	2.399592195	3.199816e+00
## 797	-1.511877e+00	-0.829447528	2.45670787	2.202732507	2.457022e+00
## 798	-2.237673e+00	-1.401250172	0.72942123	0.461231612	4.798637e-01
## 799	-1.302625e+00	-0.932188783	-0.69074639	0.059273737	3.286941e-01
## 800	-4.237455e-01	-1.051887170	-0.69466667	-0.940661227	-7.193134e-01
## 801	-6.275750e-01	0.041057978	0.59124085	-0.429450340	7.050321e-02
## 802	1.273408e+00	2.104943442	9.71588362	9.463172702	9.282085e+00
## 803	3.295765e-01	0.693703217	4.29963627	4.061149792	4.178923e+00
## 804	-8.114877e-01	-1.430875978	1.32171947	1.056492174	1.529347e+00
## 805	-3.026251e-01	0.067811217	-0.69074639	-0.940726263	-6.713059e-01
## 806	-3.587936e-01	-0.520948559	-0.27449905	-0.538703352	-1.568144e+00
## 807	-1.795981e+00	-1.441008008	-2.70214051	-2.937104227	-2.874833e+00
## 808	-1.879675e+00	-2.203555527	-2.55290947	-2.795391438	-2.692750e+00
## 809	-9.171016e-01	-0.560706395	-1.70606079	-1.937039190	-1.922841e+00
## 810	1.500690e-01	-0.022261364	2.71303509	2.464078211	2.231203e+00
## 811	8.289842e-02	-0.560706395	3.29393921	3.062960810	1.077159e+00
## 812	-4.821326e-01	-0.648153365	2.72265242	2.462202157	3.809743e-01
## 813	3.394771e-01	-0.122933659	11.18577130	10.942487421	9.487936e+00
## 814	-1.660523e+00	-1.122933659	0.18577130	-0.057512579	4.879359e-01
## 815	-1.676029e+00	-1.112801629	-1.79036872	-2.063916179	-1.107884e+00

## 816	-5.470845e-01	-0.179091977	0.30248480	0.060244282	1.229805e+00
## 817	-1.670424e+00	-1.306296783	1.29963627	1.061149792	1.178923e+00
## 818	-1.519559e+00	-1.005304233	1.56950110	1.320554405	1.508831e-01
## 819	-4.215268e-01	0.955619249	2.30426159	2.058498301	1.283561e+00
## 820	-5.723915e-01	-0.345373301	1.03439676	0.799093687	3.116009e-01
## 821	-6.395620e-01	-1.883818332	0.61530089	0.397976285	-8.424431e-01
## 822	-6.957305e-01	-1.472578107	-0.96845177	-1.200000804	-2.739281e+00
## 823	-1.779425e+00	-1.235125627	-2.81922072	-3.058288016	-2.557197e+00
## 824	-2.610262e-02	0.510464761	3.17508222	2.943523002	3.341039e+00
## 825	8.733577e-02	1.454306443	2.29179573	2.061279864	2.082908e+00
## 826	-1.423745e+00	-1.051887170	-1.69466667	-1.940661227	-2.719313e+00
## 827	-6.120364e-01	-0.710030588	-2.11768282	-2.341713592	-1.921365e+00
## 828	5.759147e-02	0.273012280	0.02585117	-0.198189786	-8.410447e-01
## 829	8.511710e-02	0.446800024	3.29286747	3.062120337	1.080034e+00
## 830	-9.446272e-01	-0.734494139	4.02692291	3.802650687	2.156081e+00
## 831	-7.254748e-01	-0.653872270	6.76560368	6.540529546	4.336766e+00
## 832	-4.787967e-01	-1.399462658	3.77130074	3.538718528	3.438530e+00
## 833	1.740356e+00	0.681159210	13.50998150	13.276597387	1.161922e+01
## 834	7.392385e-01	1.439974922	2.46026144	2.199240543	3.564534e+00
## 835	4.197841e-01	1.840615433	10.94546352	10.674868189	1.102192e+01
## 836	1.601561e+00	2.114394154	18.57342138	18.320489369	1.619889e+01
## 837	2.463833e+00	1.238505666	19.64415289	19.392348122	1.860687e+01
## 838	9.946156e-01	1.104475758	6.80869833	6.530373837	7.040489e+00
## 839	3.062455e-01	0.889823982	5.23456301	4.930520694	3.293422e+00
## 840	3.542899e-02	0.260625053	6.05292639	5.797928033	4.554513e+00
## 841	-1.389639e+00	-2.468564853	0.51034820	0.280024315	-4.402896e-01
## 842	-3.238775e+00	-3.167572303	-5.21978697	-5.460571072	-5.468329e+00
## 843	-6.627416e-01	-0.130440078	5.18684304	4.943327893	5.485061e+00
## 844	1.932034e+00	2.138301055	8.02407438	7.803556196	8.105199e+00
## 845	9.418343e-01	0.314714410	7.31602241	7.058303192	6.427583e+00
## 846	-6.038441e-02	-1.692792009	5.31709415	5.059143665	4.424709e+00
## 847	-2.073947e-02	0.671865278	1.46917373	1.199950944	-3.423254e-01
## 848	-1.076908e+00	1.083105502	-0.11457892	-0.398026146	-1.239163e+00
## 849	-1.855470e+00	-1.803596333	-1.23402962	-1.456043526	-1.722739e+00
## 850	-8.928961e-01	-2.160747201	1.61281905	1.402308722	4.717003e-02
## 851	-8.257255e-01	-2.622302171	3.03191493	2.803426124	1.201214e+00
## 852	-6.627416e-01	-2.130440078	2.18684304	1.943327893	4.850615e-01
## 853	-4.722320e-01	-1.464790241	1.60878745	1.343539786	-3.100127e-01
## 854	-1.595571e+00	-1.591995047	0.60593892	0.344445295	-1.360895e+00
## 855	-7.189100e-01	-1.719199853	15.60309039	15.345350804	1.458822e+01
## 856	-2.578386e+01	-26.250138465	-17.81707723	-18.056607070	-2.056295e+01
## 857	-2.484130e+01	-26.637340018	-19.08716536	-19.407921709	-2.072747e+01
## 858	-1.139226e+00	-2.600241703	-0.09664445	-0.342456559	-1.157755e+00
## 859	-9.773588e-01	-0.349563898	-0.99143640	-1.279911633	-2.928589e+00
## 860	-1.659006e+00	-1.516526540	-1.42584667	-1.677341962	-3.334168e+00
## 861	-1.972854e+00	-2.309381183	-3.85063961	-4.076648346	-4.589975e+00
## 862	-9.706358e-01	-1.301874764	0.14828865	-0.077488819	-1.587101e+00
## 863	-1.066449e+00	-1.255291826	1.41245641	1.183726813	-7.169046e-01
## 864	-8.472967e-01	-0.174669958	6.15113718	5.921605672	3.463781e+00
## 865	-7.239577e-01	-1.047465152	2.15398571	1.920700163	5.146627e-01
## 866	6.747022e-01	-1.250878702	6.47926765	6.255650602	5.643068e+00
## 867	3.993813e-01	0.079739654	2.15683424	1.919794654	5.655445e-01
## 868	-4.231069e-02	-0.880502510	-0.41160402	-0.681869508	-2.079759e+00
## 869	-7.261764e-01	-2.054971571	1.15505745	0.921540636	-4.882117e-01

## 870	-1.905684e+00	-0.770936153	-2.43154373	-2.675530944	-3.435931e+00
## 871	-1.659006e+00	-1.516526540	-3.42584667	-3.677341962	-4.334168e+00
## 872	-1.010281e+00	-1.666532051	-3.00379093	-3.218296098	-2.820067e+00
## 873	-1.066449e+00	-1.255291826	-1.58754359	-1.816273187	-2.716905e+00
## 874	-9.155845e-01	0.045700723	4.68232124	4.443131427	2.255056e+00
## 875	-9.431101e-01	-0.128087020	1.41530495	1.182821304	-6.660227e-01
## 876	-4.211112e-01	-1.204295764	0.74343542	0.516866234	-4.867357e-01
## 877	2.088717e-01	-0.585910183	4.73488983	4.519582761	3.360619e+00
## 878	2.760423e-01	0.952534848	5.15398571	4.920700163	4.514663e+00
## 879	-3.561593e-01	-0.673357153	9.16360304	8.918824109	7.664434e+00
## 880	-2.724652e-01	-0.910809633	9.01437199	8.777111321	7.482350e+00
## 881	-7.394642e-01	-0.037333122	4.17784569	3.914296563	1.918843e+00
## 882	2.605358e-01	-0.037333122	0.17784569	-0.085703437	-1.081157e+00
## 883	5.513632e-01	-0.378083508	2.47641912	2.256556111	1.592186e+00
## 884	-8.495154e-01	-1.182176377	3.15220892	2.922446145	1.460906e+00
## 885	-6.028374e-01	1.072233235	7.15790598	6.920635127	6.562670e+00
## 886	5.205017e-01	2.199438041	8.16075451	7.919729618	6.613552e+00
## 887	1.203038e+01	5.932359754	30.60382171	30.373277392	2.948095e+01
## 888	1.587730e+01	11.623860785	312.33502862	312.114713251	3.105061e+02
## 889	1.803155e+00	-1.163136936	29.31467130	28.920914155	3.116339e+01
## 890	-4.204895e+00	-5.215615550	-35.99613512	-36.388254423	-1.998588e+01
## 891	-3.160667e+01	-31.941528288	-34.58308115	-35.048711463	-3.754172e+01
## 892	1.451464e-01	-0.889451626	-3.50825741	-4.607729834	-5.101626e+00
## 893	-9.669913e-01	-2.775808067	7.37630087	7.109184002	5.836504e+00
## 894	-1.035279e+00	-2.555437385	13.90748494	13.630709756	1.062778e+01
## 895	-4.706075e+00	-3.329972262	-4.32819753	-4.639560966	-4.733599e+00
## 896	-6.116906e+00	-3.867735975	-6.58097117	-6.904398634	-7.400268e+00
## 897	4.390998e+00	6.502783648	52.65908124	52.418627642	4.943443e+01
## 898	4.177400e+00	2.678358906	2.96797705	2.756424681	4.314173e+00
## 899	-2.867575e-01	-0.408785465	-6.84661682	-7.201083074	-3.361584e+00
## 900	-5.520962e+00	-3.807502834	-3.65159135	-3.917423415	-4.499073e+00
## 901	-3.676173e+00	-3.035661382	-3.76001463	-3.982489760	-3.719616e+00
## 902	-1.548396e+00	-1.893443738	-0.75930959	-0.985076215	-6.629853e-01
## 903	-6.695168e-01	-1.013142125	2.23677014	2.014988822	2.289007e+00
## 904	-4.790072e-01	-0.347492289	2.65871455	2.415200714	2.493933e+00
## 905	-2.323292e-01	0.906917324	2.66441161	2.413389696	2.595697e+00
## 906	-2.323292e-01	0.906917324	2.66441161	2.413389696	2.595697e+00
## 907	7.700500e+00	9.368472293	15.24531573	16.012272294	1.744165e+01
## 908	7.700500e+00	7.368472293	22.24531573	22.012272294	2.244165e+01
## 909	-4.574011e+00	-2.945652749	5.41050586	4.382155612	4.382563e+00
## 910	-3.770010e+00	-3.626676355	-2.29283208	-2.590752630	-1.816716e+00
## 911	4.625212e-01	-1.475846096	-0.41764150	-0.652972375	7.140803e-01
## 912	-2.389852e-01	-0.115601933	2.66762684	2.415911115	1.587074e+00
## 913	-4.184927e-01	-0.831566515	2.08102565	1.818839534	1.639354e+00
## 914	-3.898498e-01	-1.416594483	1.39776201	2.156506501	6.151134e-01
## 915	-2.295154e+00	-1.704361709	-0.91612582	-1.182065975	-1.309764e+00
## 916	-2.554034e+00	-2.958992048	-2.16425090	-3.191475334	-3.362104e+00
## 917	-1.481226e+00	-1.354998708	-2.34021371	-2.583958813	-2.508941e+00
## 918	-1.688259e+00	-1.244751033	-0.19383119	-0.441340516	-1.377739e+00
## 919	-2.472569e+01	-23.601901901	-6.34698251	-6.582988268	-6.607831e+00
## 920	-2.562987e+01	-24.648484839	-24.61115028	-24.844203900	-2.447803e+01
## 921	-3.961662e-01	0.456698440	-1.73767814	-2.021481690	-1.726134e+00
## 922	-1.490711e+00	-0.698276845	0.21282510	-0.006928509	4.117490e-01
## 923	-1.639357e+00	0.008237025	-1.05811147	-1.267173595	4.426632e-01



## 924	-1.365153e+00	0.436434381	-0.78539812	-1.008674490	-5.344948e-01
## 925	-4.025795e-01	1.079283513	0.06145056	-0.150322242	2.354140e-01
## 926	-5.534442e-01	0.778290963	0.79158573	0.590273144	1.263454e+00
## 927	-5.534442e-01	0.778290963	0.79158573	0.590273144	1.263454e+00
## 928	-4.301051e-01	0.905495769	1.79443426	1.589367635	2.314336e+00
## 929	-4.301051e-01	0.905495769	1.79443426	1.589367635	3.314336e+00
## 930	-3.067661e-01	1.032700575	-1.20271721	-1.411537874	3.652175e-01
## 931	-1.559015e-01	1.333693125	0.06714762	-0.152133260	1.337178e+00
## 932	-5.259185e-01	0.952078707	1.05860203	0.850583267	1.184532e+00
## 933	-4.025795e-01	1.079283513	2.06145056	1.849677758	2.235414e+00
## 934	-4.301051e-01	0.905495769	2.79443426	2.589367635	2.314336e+00
## 935	-3.067661e-01	1.032700575	0.79728279	0.588462126	3.652175e-01
## 936	-3.342917e-01	-0.141087169	-2.46973350	-2.671847997	-1.555861e+00
## 937	-5.809698e-01	-0.395496781	-3.47543056	-3.670036979	-6.576245e-01
## 938	2.670484e-01	1.062326381	9.20498455	8.993201564	9.315734e+00
## 939	4.454386e-01	1.537106675	7.74186568	7.512916300	7.208773e+00
## 940	-5.017801e-01	1.326868023	-2.76545840	-3.015013054	-1.178322e+00
## 941	-7.484581e-01	0.072458411	-3.77115546	-4.013202036	-2.280086e+00
## 942	-6.492576e-01	-0.175126099	-0.94424650	-1.148511224	-8.663497e-01
## 943	-7.054260e-01	0.236114125	-0.52799915	-0.746488313	-7.631876e-01
## 944	-6.096126e-01	0.189531187	0.20783308	-0.007703945	3.666159e-01
## 945	-6.096126e-01	0.189531187	-1.79216692	-2.007703945	-6.333841e-01
## 946	-4.862736e-01	0.316735993	-2.78931839	-3.008609454	-1.582502e+00
## 947	-5.820870e-01	0.363318931	-3.52515062	-3.747393822	-2.712306e+00
## 948	-7.054260e-01	0.236114125	-2.52799915	-2.746488313	-1.763188e+00
## 949	1.712350e-01	1.108909319	7.46915232	7.254417196	6.185931e+00
## 950	-7.054260e-01	0.236114125	-2.52799915	-2.746488313	-1.763188e+00
## 951	-8.993228e-01	-0.228534139	-4.04102029	-4.272606650	-3.252046e+00
## 952	-7.054260e-01	0.236114125	-2.52799915	-2.746488313	-2.763188e+00
## 953	-8.562907e-01	-0.064878425	-3.79786398	-4.005892927	-2.735148e+00
## 954	-8.562907e-01	-0.064878425	-2.79786398	-3.005892927	-3.735148e+00
## 955	-8.287650e-01	0.108909319	-2.53084768	-2.745582804	-3.814069e+00
## 956	-1.007155e+00	-0.365870975	-4.06772881	-4.265297541	-3.707108e+00
## 957	-1.007155e+00	-0.365870975	-3.06772881	-3.265297541	-2.707108e+00
## 958	-9.796297e-01	-0.192083231	-1.80071251	-2.004987418	-1.786030e+00
## 959	-8.562907e-01	0.935121575	2.20213602	1.994107073	-7.351478e-01
## 960	-7.329516e-01	0.062326381	-2.79501545	-3.006798436	-1.684266e+00
## 961	-7.593601e-01	-0.870277075	-2.01231169	-2.189751715	-5.506630e-01
## 962	-7.054260e-01	0.236114125	-0.52799915	-0.746488313	-7.631876e-01
## 963	-6.096126e-01	0.189531187	0.20783308	-0.007703945	3.666159e-01
## 964	-6.096126e-01	0.189531187	-0.79216692	-1.007703945	-6.333841e-01
## 965	-4.862736e-01	0.316735993	-0.78931839	-1.008609454	-5.825023e-01
## 966	-1.609613e+00	0.189531187	-0.79216692	-1.007703945	-6.333841e-01
## 967	-1.609613e+00	0.189531187	-0.79216692	-1.007703945	-1.633384e+00
## 968	-5.512255e-01	0.785797382	-0.20948601	-0.410567329	2.663282e-01
## 969	-7.020901e-01	0.484804832	0.52064916	0.330028058	1.294368e+00
## 970	-5.512255e-01	0.785797382	-0.20948601	-0.410567329	2.663282e-01
## 971	5.721135e-01	0.913002188	-0.20663748	-0.411472838	-6.827900e-01
## 972	4.487745e-01	0.785797382	-1.20948601	-1.410567329	-7.336718e-01
## 973	-7.604773e-01	-0.111461363	-2.06203175	-2.267108559	-1.605344e+00
## 974	-7.329516e-01	0.062326381	-1.79501545	-2.006798436	-1.684266e+00
## 975	-7.329516e-01	0.062326381	-1.79501545	-2.006798436	-2.684266e+00
## 976	-7.329516e-01	0.062326381	-1.79501545	-2.006798436	-2.684266e+00
## 977	-8.838163e-01	-0.238666169	-2.06488028	-2.266203050	-2.656226e+00

## 978	-8.838163e-01	-0.238666169	-2.06488028	-2.266203050	-2.656226e+00
## 979	4.116184e+00	3.761333831	1.93511972	1.733796950	2.343774e+00
## 980	3.116184e+00	3.761333831	3.93511972	3.733796950	4.343774e+00
## 981	-1.800213e+00	-0.563965489	-0.37340939	-0.600573161	-1.595476e+00
## 982	-4.951483e-01	0.286710317	1.21496858	0.994752437	4.060002e-01
## 983	-6.460129e-01	-0.014282232	-0.05489625	-0.264652177	-5.659600e-01
## 984	-5.226739e-01	0.112922574	-0.05204772	-0.265557686	-5.150782e-01
## 985	-1.646013e+00	-0.014282232	-1.05489625	-1.264652177	-1.565960e+00
## 986	-1.646013e+00	-0.014282232	-1.05489625	-1.264652177	-1.565960e+00
## 987	-7.109648e-01	0.454779156	-0.47506387	-0.666610051	-7.171296e-01
## 988	-7.109648e-01	0.454779156	-1.47506387	-1.666610051	-1.717130e+00
## 989	-7.109648e-01	0.454779156	-1.47506387	-1.666610051	-1.717130e+00
## 990	-8.343039e-01	0.327574350	-0.47791240	-0.665704542	-7.680114e-01
## 991	1.656961e-01	0.327574350	1.52208760	1.334295458	1.231989e+00
## 992	2.890352e-01	0.454779156	0.52493613	0.333389949	2.828704e-01
## 993	-5.226739e-01	0.112922574	1.94795228	1.734442314	4.849218e-01
## 994	-1.646013e+00	-0.014282232	-1.05489625	-1.264652177	-1.565960e+00
## 995	-1.550200e+00	-0.060865170	-1.31906401	-1.525867808	-1.436156e+00
## 996	-7.109648e-01	0.454779156	0.52493613	0.333389949	2.828704e-01
## 997	-7.109648e-01	0.454779156	0.52493613	0.333389949	-7.171296e-01
## 998	-5.876258e-01	0.581983962	0.52778466	0.332484440	-6.662477e-01
## 999	-7.384905e-01	0.280991412	2.25791984	2.073079826	1.361792e+00
## 1000	2.615095e-01	0.280991412	0.25791984	0.073079826	3.617921e-01
## 1001	5.081876e-01	0.535401024	6.26361690	6.071268808	5.463556e+00
## 1002	-5.064601e+01	-50.014282232	-35.05489625	-35.264652177	-3.656596e+01
## 1003	-5.005684e+01	-49.552045946	-46.30766989	-46.529489845	-4.723263e+01
## 1004	1.164142e+00	1.968118258	0.66437974	0.420336932	1.369027e+00
## 1005	-1.925878e-01	0.568865391	0.63304590	0.430297531	-1.906730e-01
## 1006	-4.117402e-01	1.488243523	2.89436514	2.692418672	1.628642e+00
## 1007	-5.626049e-01	1.187250973	6.62450031	6.433014059	5.656681e+00
## 1008	6.169026e-01	1.903215555	12.21110149	12.030085639	1.060440e+01
## 1009	1.110259e+00	2.412034779	0.22249562	0.026463603	8.079286e-01
## 1010	-8.442613e+01	-93.260440159	-86.03205482	-86.236628084	-8.391250e+01
## 1011	-8.560447e+01	-89.184912733	-58.52650753	-58.706952747	-5.657916e+01
## 1012	4.066891e-01	2.138575738	-9.15678208	-9.507814308	-1.382244e+01
## 1013	-1.448145e+00	-4.818127101	-15.90548631	-16.278445448	-1.724688e+01
## 1014	-1.198517e+01	-8.110289544	-19.09888684	-19.279843540	-2.117000e+01
## 1015	-6.621695e+00	-6.156429807	-14.57709310	-14.821289085	-1.772154e+01
## 1016	-4.777949e+00	-5.044843539	-12.92667324	-13.037147190	-1.478687e+01
## 1017	-6.688775e+00	-2.607027998	-10.83689091	-11.029749164	-1.411841e+01
## 1018	-3.664478e+00	-3.119221965	-9.35871301	-9.497743928	-1.139124e+01
## 1019	-1.547704e+00	-1.926689576	-8.19335119	-8.303470695	-9.591812e+00
## 1020	-2.413362e+00	-0.849799515	-7.35515943	-7.501235892	-9.283724e+00
## 1021	-3.413362e+00	-2.849799515	-7.35515943	-7.501235892	-9.283724e+00
## 1022	-4.354975e+00	-3.253533320	-6.77247852	-6.904099275	-8.384012e+00
## 1023	-4.162247e+00	-1.580377065	-5.35160586	-5.504727856	-7.176212e+00
## 1024	-1.978302e+00	0.150600355	-3.76714816	-3.909337221	-5.222743e+00
## 1025	-9.199151e-01	0.746866549	-3.18446725	-3.312200605	-4.323031e+00
## 1026	-9.199151e-01	0.746866549	-3.18446725	-3.312200605	-4.323031e+00
## 1027	-9.199151e-01	0.746866549	-3.18446725	-3.312200605	-4.323031e+00
## 1028	-9.199151e-01	0.746866549	-3.18446725	-3.312200605	-4.323031e+00
## 1029	-3.919915e+00	-2.253133451	-2.18446725	0.687799395	-3.230311e-01
## 1030	-9.199151e-01	0.746866549	1.81553275	0.687799395	-3.230311e-01
## 1031	7.086427e-01	3.320269312	2.69852538	2.209855545	2.563860e+00

## 1032	-3.346069e+00	-1.964464181	-1.46182918	1.173871982	3.979786e-02
## 1033	-1.336425e+00	0.965408133	1.40799254	1.701296150	1.669406e+00
## 1034	-1.210867e+00	1.100119358	1.40976933	2.699550168	2.723162e+00
## 1035	-1.210867e+00	1.100119358	0.40976933	2.699550168	2.723162e+00
## 1036	-1.657996e-01	2.454980537	1.70030217	3.208109563	2.617617e+00
## 1037	-2.462901e-01	2.675130492	1.98905822	2.718414940	2.458315e+00
## 1038	1.602845e+00	4.374137942	3.71919339	1.459010327	2.486355e+00
## 1039	6.028453e-01	3.374137942	3.71919339	2.459010327	2.486355e+00
## 1040	-2.379273e+00	-0.381946628	-0.88361204	1.191896281	7.778253e-01
## 1041	-1.361731e+00	0.799126808	0.13990450	1.440145554	1.751202e+00
## 1042	7.108614e-01	3.327775731	4.69745364	2.209015072	2.566735e+00
## 1043	7.108614e-01	3.327775731	3.69745364	3.209015072	2.566735e+00
## 1044	1.826775e+00	3.532614643	3.82940870	3.679844922	1.990883e+00
## 1045	1.638269e+00	3.799126808	4.13990450	2.440145554	2.751202e+00
## 1046	-4.518659e-01	1.089404449	1.55883883	1.423026763	9.622924e-01
## 1047	6.989987e-01	2.390396999	1.82870366	1.682431377	9.342525e-01
## 1048	6.989987e-01	2.390396999	2.82870366	1.682431377	9.342525e-01
## 1049	-4.265590e-01	1.255685774	1.82692687	0.684177359	-1.195037e-01
## 1050	-3.460685e-01	1.035535819	1.53817082	1.173871982	3.979786e-02
## 1051	-1.346069e+00	0.035535819	-0.46182918	1.173871982	3.979786e-02
## 1052	-4.346069e+00	-2.964464181	-2.46182918	1.173871982	3.979786e-02
## 1053	-3.814917e-01	1.610546953	2.11745971	1.192736754	7.749509e-01
## 1054	1.834200e+00	4.454980537	4.70030217	3.208109563	3.617617e+00
## 1055	-1.301001e+00	0.390396999	0.82870366	1.682431377	9.342525e-01
## 1056	-2.255934e+00	-0.254741822	-0.88076351	2.190990772	1.828707e+00
## 1057	-2.255934e+00	-0.254741822	0.11923649	2.190990772	1.828707e+00
## 1058	1.753710e+00	4.675130492	4.98905822	2.718414940	3.458315e+00
## 1059	3.834200e+00	6.454980537	6.70030217	3.208109563	3.617617e+00
## 1060	7.440660e-01	2.745258178	4.11923649	2.190990772	1.828707e+00
## 1061	-3.460685e-01	1.035535819	1.53817082	1.173871982	3.979786e-02
## 1062	7.794892e-01	2.170247044	2.53994761	2.172126000	1.093554e+00
## 1063	-3.460685e-01	1.035535819	1.53817082	1.173871982	3.979786e-02
## 1064	-3.460685e-01	1.035535819	2.53817082	1.173871982	3.979786e-02
## 1065	-3.460685e-01	1.035535819	1.53817082	2.173871982	1.039798e+00
## 1066	7.344220e-01	1.815385864	2.24941477	2.663566604	1.199099e+00
## 1067	6.967800e-01	2.382890580	2.82977540	1.683271850	9.313781e-01
## 1068	-3.482872e-01	1.028029400	1.53924256	2.174712454	3.692346e-02
## 1069	-3.482872e-01	1.028029400	2.53924256	2.174712454	1.036923e+00
## 1070	-4.563033e-01	1.074391611	1.56098232	1.424707709	9.565436e-01
## 1071	-2.249482e-01	1.155234206	2.54209110	3.173806945	1.087805e+00
## 1072	-3.054386e-01	1.375384161	2.83084714	2.684112323	9.285037e-01
## 1073	6.670357e-01	2.201596417	3.56383085	2.423802200	1.007425e+00
## 1074	6.670357e-01	2.201596417	3.56383085	3.423802200	2.007425e+00
## 1075	-3.780315e-01	0.846735237	2.27329801	2.915242804	1.112971e+00
## 1076	-3.351829e-01	1.194089998	2.56490259	2.424642673	1.004551e+00
## 1077	-1.335183e+00	0.194089998	2.56490259	2.424642673	1.004551e+00
## 1078	-1.335183e+00	0.194089998	1.56490259	2.424642673	1.004551e+00
## 1079	-1.209625e+00	0.328801223	1.56667938	2.422896691	2.058307e+00
## 1080	-2.901157e-01	1.548951177	2.85543543	1.933202068	1.899006e+00
## 1081	8.629676e-01	2.857450146	5.12422851	3.191766209	2.873840e+00
## 1082	-1.820996e-01	1.502588967	2.83369567	2.683206813	1.979386e+00
## 1083	-1.016091e-01	1.282439012	2.54493963	3.172901436	2.138687e+00
## 1084	8.179004e-01	2.502588967	4.83369567	2.683206813	1.979386e+00
## 1085	8.179004e-01	2.502588967	5.83369567	2.683206813	1.979386e+00

## 1086	-1.466764e-01	0.927577833	4.25440679	2.664342041	1.244233e+00
## 1087	2.933814e+00	2.707427878	1.96565074	4.154036664	2.403534e+00
## 1088	2.933814e+00	2.707427878	1.96565074	3.154036664	1.403534e+00
## 1089	-4.938208e-01	0.629393903	0.24853293	-0.909597366	-2.030714e+00
## 1090	-5.366694e-01	0.282039143	-0.04307165	-0.418997234	-1.922294e+00
## 1091	-5.366694e-01	0.282039143	-0.04307165	-0.418997234	-1.922294e+00
## 1092	-5.366694e-01	0.282039143	-0.04307165	-0.418997234	-1.922294e+00
## 1093	4.633306e-01	0.282039143	-0.04307165	-0.418997234	-1.922294e+00
## 1094	2.463331e+00	0.282039143	-0.04307165	0.581002766	-9.222939e-01
## 1095	4.049435e-01	0.685772948	-0.62575256	1.983866149	1.779938e-01
## 1096	-1.668982e+00	-0.159404680	-0.49950980	-2.701007215	-4.729850e+00
## 1097	-5.920685e-01	-0.406873995	-0.75271561	-2.486188264	-3.201022e+00
## 1098	-1.640124e+00	-0.669088231	-1.91628539	-0.524693246	-2.716461e+00
## 1099	-2.610595e+00	0.436861514	-0.91682889	-2.103870599	-3.830138e+00
## 1100	-1.619379e+00	-0.505317322	-0.75324386	-1.907851384	-3.084470e+00
## 1101	-6.038399e-01	-0.256405888	-0.46216752	-0.820114636	-2.076338e+00
## 1102	-5.366694e-01	0.282039143	-0.04307165	-1.418997234	-2.922294e+00
## 1103	-5.366694e-01	1.282039143	-0.04307165	-0.418997234	-1.922294e+00
## 1104	-1.579518e+00	0.934684382	-0.33467623	0.071602897	-1.813874e+00
## 1105	-6.038399e-01	0.743594112	-0.46216752	-1.820114636	-3.076338e+00
## 1106	4.545472e-01	1.339860306	0.12051339	-1.222978020	-2.176626e+00
## 1107	-6.466885e-01	0.396239351	-0.75377210	-0.329514504	-1.967918e+00
## 1108	-1.646688e+00	0.396239351	-0.75377210	-1.329514504	-2.967918e+00
## 1109	-1.603840e+00	0.743594112	-0.46216752	-1.820114636	-3.076338e+00
## 1110	-5.883014e-01	0.992505546	-0.17109119	-0.732377888	-2.068206e+00
## 1111	-5.883014e-01	0.992505546	-0.17109119	-0.732377888	-2.068206e+00
## 1112	-5.883014e-01	0.992505546	-0.17109119	-0.732377888	-2.068206e+00
## 1113	4.116986e-01	0.992505546	-0.17109119	-0.732377888	-2.068206e+00
## 1114	-5.883014e-01	0.992505546	-0.17109119	-0.732377888	-2.068206e+00
## 1115	-1.646688e+00	0.396239351	-0.75377210	-1.329514504	-2.967918e+00
## 1116	-5.883014e-01	0.992505546	-0.17109119	-0.732377888	-2.068206e+00
## 1117	4.116986e-01	0.992505546	-0.17109119	-0.732377888	-2.068206e+00
## 1118	-5.883014e-01	0.992505546	-0.17109119	-0.732377888	-2.068206e+00
## 1119	-1.646688e+00	-0.603760649	-0.75377210	-1.329514504	-2.967918e+00
## 1120	-2.588301e+00	-0.007494454	-1.17109119	-0.732377888	-2.068206e+00
## 1121	-2.521131e+00	0.530950576	-0.75199532	-2.331260486	-3.914162e+00
## 1122	5.151530e-01	1.943632920	0.70212255	-1.626681876	-2.274039e+00
## 1123	4.294559e-01	1.248923398	0.11891340	0.354518387	-1.057199e+00
## 1124	-1.628931e+00	0.652657204	-0.46376751	-0.242618229	-1.956912e+00
## 1125	-1.586083e+00	1.000011965	-0.17216294	-1.733218361	-3.065331e+00
## 1126	-5.276956e-01	0.596278159	0.41051798	-1.136081744	-2.165619e+00
## 1127	1.429456e+00	1.248923398	0.11891340	-0.645481613	-2.057199e+00
## 1128	1.496626e+00	1.787368429	0.53800927	1.755635789	9.684458e-02
## 1129	-6.873184e-01	0.056391010	-1.04644843	-0.839754845	-2.856624e+00
## 1130	3.983787e-01	0.751100531	-0.46323927	-1.820955109	-3.073463e+00
## 1131	-6.444698e-01	0.403745770	-0.75484385	-1.330354977	-2.965044e+00
## 1132	-1.702857e+00	-0.192520424	-1.33752476	-0.927491594	-2.864756e+00
## 1133	-6.444698e-01	0.403745770	-0.75484385	-0.330354977	-1.965044e+00
## 1134	-6.016213e-01	0.751100531	-0.46323927	-0.820955109	-2.073463e+00
## 1135	-6.016213e-01	0.751100531	-0.46323927	-0.820955109	-2.073463e+00
## 1136	-6.016213e-01	0.751100531	-0.46323927	-0.820955109	-2.073463e+00
## 1137	3.983787e-01	0.751100531	-0.46323927	-0.820955109	-2.073463e+00
## 1138	3.983787e-01	0.751100531	0.53676073	-0.820955109	-2.073463e+00
## 1139	-6.600084e-01	0.154834336	-1.04592018	-1.418091725	-2.973176e+00

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## 1140 -1.579518e+00 -0.065315618 -1.33467623 -0.928397103 -2.813874e+00
## 1141 -2.660008e+00 0.154834336 -0.04592018 -1.418091725 -2.973176e+00
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## 1143 -2.462744e+00 1.127216771 -0.16931441 -1.734123870 -3.014450e+00
## 1144 -5.276956e-01 1.596278159 0.41051798 -2.136081744 -3.165619e+00
## 1145 1.487843e+00 1.845189593 0.70159431 -1.048344996 -2.157487e+00
## 1146 3.866073e-01 0.901568638 -0.17269118 0.845118519 -9.487796e-01
## 1147 -1.671780e+00 0.305302443 -0.75537209 0.247981903 -1.848492e+00
## 1148 -5.860827e-01 1.000011965 -0.17216294 -1.733218361 -3.065331e+00
## 1149 4.723044e-01 1.596278159 0.41051798 -0.136081744 -1.165619e+00
## 1150 1.371069e+00 0.652657204 -0.46376751 -1.242618229 -2.956912e+00
## 1151 4.139173e-01 1.000011965 -0.17216294 -0.733218361 -2.065331e+00
## 1152 -7.457055e-01 -0.539875185 -1.62912934 -0.436891462 -2.756336e+00
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## 1156 4.567659e-01 1.347366725 0.11944164 -1.223818493 -2.173751e+00
## 1157 -6.444698e-01 0.403745770 -0.75484385 -1.330354977 -2.965044e+00
## 1158 3.555302e-01 0.403745770 -0.75484385 -1.330354977 -2.965044e+00
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## 1164 4.723044e-01 1.596278159 0.41051798 -1.136081744 -2.165619e+00
## 1165 1.429456e+00 1.248923398 0.11891340 0.354518387 -1.057199e+00
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## 1169 4.139173e-01 1.000011965 -0.17216294 -0.733218361 -2.065331e+00
## 1170 1.355530e+00 0.403745770 -0.75484385 -0.330354977 -1.965044e+00
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## 1175 -1.675547e+00 -0.094077097 -1.33699651 -1.505828474 -2.981308e+00
## 1176 -6.171598e-01 0.502189097 -0.75431560 -0.908691857 -2.081595e+00
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## 1178 -1.617160e+00 0.502189097 0.24568440 -1.908691857 -3.081595e+00
## 1179 3.983787e-01 0.751100531 -0.46323927 -0.820955109 -2.073463e+00
## 1180 -5.211308e-01 0.530950576 -0.75199532 0.668739514 -9.141618e-01
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## 1182 -3.558773e+00 1.098455292 -0.17163469 -3.311555241 -4.181883e+00
## 1183 -2.484847e+00 0.943632920 0.70212255 -2.626681876 -3.274039e+00
## 1184 -1.512157e+00 0.845189593 0.70159431 -1.048344996 -2.157487e+00
## 1185 1.570552e+00 1.632546057 1.41176652 0.440509154 -9.953111e-01
## 1186 2.570552e+00 1.632546057 1.41176652 1.440509154 4.688912e-03
## 1187 4.537779e-01 0.440013669 0.24640469 1.246235921 -7.947357e-01
## 1188 4.382393e-01 0.191102235 -0.04467164 0.158499173 -1.802868e+00
## 1189 -5.189121e-01 1.538456995 0.24693294 1.667899041 8.871255e-02
## 1190 -1.577299e+00 0.942190801 -0.33574797 -0.929237575 -2.811000e+00
## 1191 -5.003856e-01 1.694721486 0.41104622 -1.714418624 -2.282171e+00
## 1192 4.139173e-01 1.000011965 -0.17216294 -0.733218361 -2.065331e+00
## 1193 -5.860827e-01 1.000011965 -0.17216294 0.266781639 -1.065331e+00

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## 1194	-2.644470e+00	0.403745770	-0.75484385	-0.330354977	-1.965044e+00
## 1195	-5.432341e-01	1.347366725	0.11944164	-1.223818493	-2.173751e+00
## 1196	5.151530e-01	1.943632920	0.70212255	-0.626681876	-1.274039e+00
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## 1199	4.139173e-01	1.000011965	-0.17216294	-0.733218361	-2.065331e+00
## 1200	4.139173e-01	1.000011965	-0.17216294	0.266781639	-1.065331e+00
## 1201	-6.444698e-01	0.403745770	-0.75484385	-0.330354977	-1.965044e+00
## 1202	-6.016213e-01	0.751100531	-0.46323927	-0.820955109	-2.073463e+00
## 1203	-6.016213e-01	0.751100531	-0.46323927	-0.820955109	-2.073463e+00
## 1204	-2.601621e+00	0.751100531	-0.46323927	-0.820955109	-2.073463e+00
## 1205	-3.601621e+00	0.751100531	-0.46323927	-2.820955109	-3.073463e+00
## 1206	5.151530e-01	1.943632920	0.70212255	-1.626681876	-2.274039e+00
## 1207	2.638708e+00	2.146182143	0.97145914	1.211059617	-1.855269e-01
## 1208	1.371069e+00	0.652657204	-0.46376751	0.757381771	-9.569117e-01
## 1209	-6.444698e-01	0.403745770	-0.75484385	0.669645023	-9.650437e-01
## 1210	-3.660008e+00	0.154834336	-1.04592018	-0.418091725	-1.973176e+00
## 1211	4.412273e-01	1.098455292	-0.17163469	-2.311555241	-3.181883e+00
## 1212	3.558002e+00	2.290987680	1.99372713	-1.117282008	-1.382459e+00
## 1213	-7.028569e-01	-0.192520424	-1.33752476	0.072508406	-1.864756e+00
## 1214	-1.680754e+00	-1.008936573	-2.20896172	-0.034933587	-2.605167e+00
## 1215	-1.617160e+00	0.502189097	-0.75431560	-0.908691857	-2.081595e+00
## 1216	-1.617160e+00	0.502189097	-0.75431560	-1.908691857	-3.081595e+00
## 1217	-1.558773e+00	1.098455292	-0.17163469	-1.311555241	-2.181883e+00
## 1218	-1.601621e+00	0.751100531	-0.46323927	-1.820955109	-3.073463e+00
## 1219	-5.432341e-01	1.347366725	0.11944164	-2.223818493	-3.173751e+00
## 1220	-5.860827e-01	1.000011965	-0.17216294	-1.733218361	-3.065331e+00
## 1221	-1.628931e+00	0.652657204	-0.46376751	-1.242618229	-2.956912e+00
## 1222	-2.628931e+00	0.652657204	-0.46376751	-1.242618229	-2.956912e+00
## 1223	-3.570544e+00	1.248923398	0.11891340	-1.645481613	-3.057199e+00
## 1224	-1.512157e+00	0.845189593	0.70159431	-3.048344996	-4.157487e+00
## 1225	1.561769e+00	1.690367221	1.57535155	0.636528368	-2.496427e-01
## 1226	-2.515145e+00	0.937836536	0.82855736	2.421709417	2.215284e-01
## 1227	-3.487835e+00	1.036279863	0.82908560	-2.156627463	-3.895023e+00
## 1228	7.301750e-01	3.172433207	1.86873292	-0.855817745	-1.304306e+00
## 1229	2.601629e+00	1.130368925	0.99391918	1.615982650	2.095297e-02
## 1230	2.462752e+00	0.754252685	0.69999432	1.529151411	-3.806091e-02
## 1231	4.559966e-01	1.447520088	0.24533295	1.245395448	-7.918613e-01
## 1232	-5.595420e-01	1.198608654	0.95425662	0.157658700	-1.799993e+00
## 1233	-2.583864e+00	1.007518384	0.82676532	0.265941166	-1.062457e+00
## 1234	-5.503374e+00	0.787368429	0.53800927	-2.244364211	-3.903155e+00
## 1235	-3.343751e+00	2.327255579	0.99497567	-3.540691110	-4.212151e+00
## 1236	2.702865e+00	2.073989880	1.86820467	-0.277480865	-1.187754e+00
## 1237	3.536677e+00	2.599430313	1.57375156	2.214024775	8.697834e-01
## 1238	4.286866e-01	1.349076761	0.24480470	2.823732328	3.246905e-01
## 1239	-1.611174e+00	0.909075057	-0.17376293	-0.155721954	-1.945905e+00
## 1240	-5.254769e-01	1.603784578	0.40944623	-2.136922217	-3.162745e+00
## 1241	4.900617e-01	1.852696012	0.70052256	-0.049185469	-1.154613e+00
## 1242	-3.611174e+00	0.909075057	-0.17376293	0.844278046	-9.459052e-01
## 1243	-4.568325e+00	0.256429817	0.11784165	-2.646322085	-4.054325e+00
## 1244	-3.503155e-01	2.392583161	2.15748896	-2.345512368	-2.463608e+00
## 1245	-1.353303e+00	2.485230105	2.28445201	1.124542045	-8.459236e-02
## 1246	-1.454539e+00	1.541609150	1.41016652	0.018005561	-1.875885e+00
## 1247	1.705084e+00	3.081496299	2.86713293	0.721678662	-1.848801e-01

## 1248	-1.396152e+00	2.137875344	1.99284744	1.615142177	2.382737e-02
## 1249	-1.454539e+00	1.541609150	1.41016652	0.018005561	-1.875885e+00
## 1250	2.705084e+00	3.081496299	2.86713293	0.721678662	-1.848801e-01
## 1251	1.603848e+00	2.137875344	1.99284744	1.615142177	2.382737e-02
## 1252	-2.512926e+00	0.945342955	0.82748561	1.420868944	-7.755972e-01
## 1253	-2.470078e+00	1.292697716	1.11909019	-1.069731187	-2.884017e+00
## 1254	-3.104549e-01	2.832584865	2.57605659	-0.366058086	-1.193012e+00
## 1255	-3.961520e-01	2.137875344	1.99284744	0.615142177	-9.761726e-01
## 1256	-3.961520e-01	2.137875344	1.99284744	0.615142177	-9.761726e-01
## 1257	-1.396152e+00	2.137875344	1.99284744	0.615142177	-9.761726e-01
## 1258	-1.396152e+00	2.137875344	1.99284744	0.615142177	-9.761726e-01
## 1259	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1260	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1261	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1262	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1263	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1264	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1265	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1266	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1267	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1268	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1269	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1270	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1271	-3.377649e-01	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1272	-3.377649e-01	1.734141538	0.57552835	1.212278794	-7.646033e-02
## 1273	5.662235e+00	2.734141538	2.57552835	1.212278794	-7.646033e-02
## 1274	5.568425e+00	-2.287113522	-2.42786368	0.634006950	5.758980e+00
## 1275	-6.880877e-01	-6.843455628	-6.92055712	-2.370540905	5.252659e-01
## 1276	-8.628192e-01	-0.485930417	-1.05425659	-1.345576549	3.254811e-01
## 1277	-8.628192e-01	-0.485930417	-1.05425659	-1.345576549	3.254811e-01
## 1278	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1279	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1280	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1281	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1282	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1283	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1284	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1285	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1286	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1287	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1288	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1289	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1290	1.955680e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1291	-8.044320e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1292	-8.044320e-01	0.110335777	-0.47157568	-0.748439933	1.225193e+00
## 1293	-1.746045e+00	0.706601971	0.11110523	-0.151303316	1.124906e+00
## 1294	2.539551e-01	0.706601971	0.11110523	-0.151303316	1.249057e-01
## 1295	2.219865e+00	1.598141810	1.00660222	0.783565303	2.952370e+00
## 1296	-4.777420e-02	0.104616872	-0.42862443	-0.670112543	1.180985e+00
## 1297	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1298	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1299	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1300	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1301	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00

## 1302	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1303	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1304	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1305	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1306	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1307	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1308	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1309	1.030905e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1310	-8.969095e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1311	-8.969095e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1312	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1313	-8.385224e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1314	1.614776e-01	1.001875616	0.42392131	0.186428687	1.052658e+00
## 1315	2.219865e+00	1.598141810	1.00660222	0.783565303	2.952370e+00
## 1316	1.061293e-02	0.700883066	0.15405648	-0.072975927	2.080698e+00
## 1317	-8.969095e-01	0.405609421	-0.15875960	-0.410707930	1.152946e+00
## 1318	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1319	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1320	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1321	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1322	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1323	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1324	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1325	1.614776e-01	1.001875616	0.42392131	0.186428687	2.052658e+00
## 1326	4.161478e+00	5.001875616	4.42392131	4.186428687	2.052658e+00
## 1327	4.161478e+00	5.001875616	4.42392131	4.186428687	6.052658e+00
## 1328	-4.508557e-01	-0.232120260	-0.65125103	-0.847827877	2.153320e+00
## 1329	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1330	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1331	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1332	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1333	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1334	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1335	-1.847397e+00	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1336	1.526029e-01	0.971849940	0.42820828	0.189790578	4.116024e-02
## 1337	2.269377e+00	2.164382329	1.59357010	1.384063811	3.840585e+00
## 1338	-1.491264e-01	0.369864840	-0.11152138	-0.329018649	2.097240e+00
## 1339	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1340	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1341	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1342	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1343	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1344	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1345	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1346	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1347	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1348	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1349	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1350	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1351	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1352	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1353	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1354	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1355	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00



## 1356	-1.847397e+00	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1357	1.526029e-01	0.971849940	0.42820828	0.189790578	-9.588398e-01
## 1358	2.269377e+00	2.164382329	1.59357010	1.384063811	3.840585e+00
## 1359	-2.999911e-01	0.068872290	-0.38138620	-0.588423263	2.125280e+00
## 1360	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1361	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1362	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1363	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1364	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1365	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1366	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1367	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1368	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1369	1.526029e-01	0.971849940	0.42820828	0.189790578	2.041160e+00
## 1370	1.526029e-01	0.971849940	0.42820828	0.189790578	1.041160e+00
## 1371	1.526029e-01	0.971849940	0.42820828	0.189790578	1.041160e+00
## 1372	1.738238e-03	0.670857390	0.15834345	-0.069614036	1.069200e+00
## 1373	1.738238e-03	0.670857390	0.15834345	-0.069614036	1.069200e+00
## 1374	-9.982618e-01	0.670857390	0.15834345	-0.069614036	1.069200e+00
## 1375	-9.982618e-01	0.670857390	0.15834345	-0.069614036	1.069200e+00
## 1376	6.012537e-02	1.267123584	0.74102436	0.527522581	1.968912e+00
## 1377	6.012537e-02	1.267123584	0.74102436	0.527522581	9.689124e-01
## 1378	-1.939875e+00	1.267123584	0.74102436	0.527522581	9.689124e-01
## 1379	-9.073928e-02	0.966131034	0.47115953	0.268117967	-1.003048e+00
## 1380	2.026035e+00	2.158663423	1.63652136	1.462391200	2.796377e+00
## 1381	-3.924686e-01	0.364145935	-0.06857012	-0.250691260	1.053032e+00
## 1382	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1383	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1384	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1385	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1386	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1387	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1388	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1389	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1390	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1391	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1392	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1393	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1394	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1395	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1396	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1397	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1398	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1399	-1.090739e+00	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1400	-9.073928e-02	0.966131034	0.47115953	0.268117967	-1.003048e+00
## 1401	9.676478e-01	1.562397229	1.05384045	0.865254583	1.896664e+00
## 1402	-3.924686e-01	0.364145935	-0.06857012	-0.250691260	1.053032e+00
## 1403	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1404	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1405	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1406	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1407	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1408	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1409	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01

## 1410	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1411	-9.073928e-02	0.966131034	0.47115953	-1.731882033	9.969522e-01
## 1412	-9.073928e-02	0.966131034	0.47115953	-1.731882033	9.969522e-01
## 1413	1.252929e-01	0.873406613	0.42768003	-0.231872542	1.157712e+00
## 1414	1.252929e-01	0.873406613	0.42768003	1.768127458	1.157712e+00
## 1415	1.252929e-01	0.873406613	0.42768003	0.768127458	1.157712e+00
## 1416	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1417	1.727681e-02	0.919768824	0.44941978	1.018122712	1.077332e+00
## 1418	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1419	-1.090739e+00	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1420	-9.073928e-02	0.966131034	0.47115953	0.268117967	-3.047808e-03
## 1421	9.676478e-01	1.562397229	1.05384045	0.865254583	1.896664e+00
## 1422	-2.416039e-01	0.665138485	0.20129471	0.008713353	1.024992e+00
## 1423	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1424	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1425	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1426	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1427	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1428	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1429	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1430	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1431	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1432	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1433	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1434	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1435	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1436	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1437	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1438	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1439	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1440	-9.073928e-02	0.966131034	0.47115953	0.268117967	-3.047808e-03
## 1441	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1442	-2.416039e-01	0.665138485	0.20129471	0.008713353	1.024992e+00
## 1443	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1444	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1445	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1446	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1447	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1448	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1449	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1450	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1451	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1452	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1453	-9.073928e-02	0.966131034	0.47115953	-0.731882033	9.969522e-01
## 1454	-9.073928e-02	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1455	1.727681e-02	0.919768824	0.44941978	1.018122712	1.077332e+00
## 1456	9.092607e-01	0.966131034	0.47115953	0.268117967	9.969522e-01
## 1457	-2.090739e+00	0.966131034	3.47115953	3.268117967	9.969522e-01
## 1458	-3.149126e+00	0.369864840	2.88847862	1.670981351	-2.902760e+00
## 1459	-5.654190e-02	1.637300192	3.83547246	2.681460832	3.314183e-02
## 1460	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1461	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1462	-4.011198e-01	0.687960331	2.00413823	2.653251736	1.976412e-01
## 1463	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01

## 1464	-4.816102e-01	0.908110286	3.29289427	2.163557113	3.833964e-02
## 1465	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1466	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1467	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1468	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1469	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1470	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1471	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1472	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1473	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1474	-4.011198e-01	-0.312039669	3.00413823	2.653251736	1.976412e-01
## 1475	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1476	-3.339492e-01	0.226405362	3.42323410	3.054369138	3.516852e-01
## 1477	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1478	-3.339492e-01	0.226405362	3.42323410	3.054369138	3.516852e-01
## 1479	-4.011198e-01	-0.312039669	3.00413823	2.653251736	1.976412e-01
## 1480	-3.339492e-01	1.226405362	3.42323410	3.054369138	3.516852e-01
## 1481	-3.339492e-01	1.226405362	3.42323410	3.054369138	3.516852e-01
## 1482	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1483	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1484	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1485	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1486	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1487	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1488	-4.011198e-01	-0.312039669	3.00413823	2.653251736	1.976412e-01
## 1489	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1490	-3.339492e-01	1.226405362	3.42323410	3.054369138	3.516852e-01
## 1491	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1492	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1493	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1494	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1495	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1496	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1497	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1498	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1499	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1500	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1501	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1502	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1503	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1504	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1505	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1506	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1507	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1508	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1509	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1510	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1511	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1512	-4.011198e-01	0.687960331	3.00413823	2.653251736	1.976412e-01
## 1513	2.459888e+01	25.687960331	3.00413823	2.653251736	1.976412e-01
## 1514	2.459888e+01	25.687960331	28.00413823	27.653251736	2.519764e+01
## 1515	-3.540062e+00	-3.679820296	2.95971854	2.696901284	-1.146265e+00
## 1516	-4.565866e-01	-1.499700143	3.03093180	2.674263557	1.257813e-01
## 1517	-3.894160e-01	-1.961255113	3.45002768	3.075380959	2.798253e-01

## 1518	-3.222455e-01	-1.422810082	3.86912355	3.476498360	4.338692e-01
## 1519	-2.550749e-01	0.115634949	4.28821943	3.877615762	5.879132e-01
## 1520	-2.550749e-01	0.115634949	4.28821943	3.877615762	5.879132e-01
## 1521	-3.222455e-01	-0.422810082	3.86912355	3.476498360	4.338692e-01
## 1522	-3.222455e-01	-1.422810082	3.86912355	3.476498360	4.338692e-01
## 1523	-3.222455e-01	0.577189918	3.86912355	3.476498360	4.338692e-01
## 1524	-2.550749e-01	2.115634949	4.28821943	3.877615762	5.879132e-01
## 1525	-3.894160e-01	1.038744887	3.45002768	3.075380959	2.798253e-01
## 1526	-4.565866e-01	0.500299857	3.03093180	2.674263557	1.257813e-01
## 1527	-4.565866e-01	0.500299857	3.03093180	2.674263557	1.257813e-01
## 1528	-4.565866e-01	0.500299857	3.03093180	2.674263557	1.257813e-01
## 1529	-4.565866e-01	0.500299857	3.03093180	2.674263557	1.257813e-01
## 1530	-4.565866e-01	0.500299857	3.03093180	2.674263557	1.257813e-01
## 1531	-4.565866e-01	-0.499700143	3.03093180	2.674263557	1.257813e-01
## 1532	-4.565866e-01	-0.499700143	3.03093180	2.674263557	1.257813e-01
## 1533	-3.894160e-01	0.038744887	3.45002768	3.075380959	2.798253e-01
## 1534	2.610584e+00	4.038744887	3.45002768	4.075380959	2.798253e-01
## 1535	2.610584e+00	3.038744887	0.45002768	1.075380959	-7.201747e-01
## 1536	-9.412758e-01	-0.857471608	-2.95265881	-3.070503243	-5.115867e+00
## 1537	-9.423930e-01	-0.098655896	-2.00237887	-2.147860086	-6.170549e+00
## 1538	-1.093258e+00	-0.399648446	-2.27224370	-2.407264700	-7.142509e+00
## 1539	-1.244122e+00	-0.700640996	-2.54210853	-2.666669314	-6.114469e+00
## 1540	-1.394987e+00	-1.001633545	-2.81197336	-2.926073927	-6.086429e+00
## 1541	-1.244122e+00	-0.700640996	-2.54210853	-2.666669314	-6.114469e+00
## 1542	-1.244122e+00	-0.700640996	-2.54210853	-2.666669314	-5.114469e+00
## 1543	-1.244122e+00	-0.700640996	-2.54210853	-2.666669314	-5.114469e+00
## 1544	-1.093258e+00	-0.399648446	-2.27224370	-2.407264700	-5.142509e+00
## 1545	-1.093258e+00	-0.399648446	-2.27224370	-2.407264700	-3.142509e+00
## 1546	-1.093258e+00	-0.399648446	-2.27224370	-2.407264700	-3.142509e+00
## 1547	-7.915284e-01	0.202336654	-1.73251404	-1.888455473	-3.198588e+00
## 1548	4.920847e+01	50.202336654	48.26748596	48.111544527	4.580141e+01
## 1549	4.920847e+01	50.202336654	48.26748596	48.111544527	4.480141e+01
## 1550	-1.053327e+00	-0.473976845	-1.94879172	-2.105836444	-5.314268e+00
## 1551	-1.204191e+00	-0.774969395	-2.21865655	-2.365241058	-5.286229e+00
## 1552	-1.204191e+00	-0.774969395	-2.21865655	-2.365241058	-5.286229e+00
## 1553	-1.204191e+00	-0.774969395	-2.21865655	-2.365241058	-4.286229e+00
## 1554	-1.204191e+00	-0.774969395	-2.21865655	-2.365241058	-4.286229e+00
## 1555	-1.053327e+00	-0.473976845	-1.94879172	-2.105836444	-3.314268e+00
## 1556	-1.053327e+00	-0.473976845	-1.94879172	-2.105836444	-3.314268e+00
## 1557	-9.024621e-01	-0.172984295	-1.67892690	-1.846431831	-4.342308e+00
## 1558	-9.024621e-01	-0.172984295	-1.67892690	-2.846431831	-4.342308e+00
## 1559	-1.053327e+00	-0.473976845	-2.94879172	-3.105836444	-5.314268e+00
## 1560	-9.453106e-01	-0.520339056	-2.97053147	-2.355831699	-5.233888e+00
## 1561	-1.176666e+00	-0.601181651	-2.95164025	-3.104930935	-5.365150e+00
## 1562	-1.176666e+00	-0.601181651	-2.95164025	-3.104930935	-5.365150e+00
## 1563	-1.176666e+00	-0.601181651	-2.95164025	-3.104930935	-5.365150e+00
## 1564	-1.176666e+00	-0.601181651	-2.95164025	-3.104930935	-5.365150e+00
## 1565	-1.176666e+00	-0.601181651	-2.95164025	-2.104930935	-4.365150e+00
## 1566	-1.176666e+00	-0.601181651	-1.95164025	-2.104930935	-3.365150e+00
## 1567	-1.133817e+00	-0.253826891	-2.66003568	-3.595531067	-4.473570e+00
## 1568	-9.024621e-01	-0.172984295	-2.67892690	-2.846431831	-5.342308e+00
## 1569	-1.025801e+00	-0.300189101	-3.68177543	-3.845526322	-5.393190e+00
## 1570	-1.176666e+00	-0.601181651	-2.95164025	-4.104930935	-6.365150e+00
## 1571	-1.149140e+00	-0.427393907	-3.68462396	-3.844620812	-7.444072e+00

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## 1572 -1.219514e+00 -0.948536412 -5.24324483 -4.614330803 -8.256730e+00
## 1573 -1.450869e+00 -1.029379007 -5.22435361 -6.363430040 -8.387992e+00
## 1574 -1.574208e+00 -1.156583813 -6.22720214 -7.362524531 -1.043887e+01
## 1575 -1.466192e+00 -1.202946024 -9.24894189 -9.612519785 -1.435849e+01
## 1576 -1.740396e+00 -1.631143380 -9.52165525 -9.871018890 -1.338134e+01
## 1577 7.273872e+01 72.686249652 63.19993433 63.872293024 6.149406e+01
## 1578 7.288959e+01 72.987242202 63.46979916 64.131697637 6.146602e+01
## 1579 -2.329778e+00 -2.181801524 -10.89404778 -11.034651399 -1.398778e+01
## 1580 -2.329778e+00 -2.181801524 -10.89404778 -11.034651399 -1.398778e+01
## 1581 -2.329778e+00 -2.181801524 -11.89404778 -11.034651399 -1.498778e+01
## 1582 -2.329778e+00 -2.181801524 -10.89404778 -11.034651399 -1.298778e+01
## 1583 -2.561134e+00 -2.262644119 -7.87515656 -8.783750636 -9.119046e+00
## 1584 -2.178914e+00 -1.880808974 -5.62418295 -5.775246786 -7.015824e+00
## 1585 -1.658032e+00 -1.198202006 -5.34577253 -5.518558699 -7.891219e+00
## 1586 -1.411354e+00 -0.943792394 -8.34007547 -8.520369718 -8.789455e+00
## 1587 -1.562219e+00 -1.244784944 -6.60994030 -6.779774331 -6.761415e+00
## 1588 -1.630506e+00 -1.024414262 -6.07875623 -5.258248577 -4.970140e+00
## 1589 -1.383828e+00 -0.770004650 -5.07305917 -5.260059595 -4.868377e+00
## 1590 -1.190115e+00 -0.121657339 -4.51158976 -5.491255113 -5.004836e+00
## 1591 -1.109625e+00 -0.341807294 -4.80034581 -5.001560490 -5.845535e+00
## 1592 -1.109625e+00 -0.341807294 -4.80034581 -5.001560490 -5.845535e+00
## 1593 -1.260489e+00 -0.642799844 -5.07021064 -5.260965104 -4.817495e+00
## 1594 -1.260489e+00 -0.642799844 -5.07021064 -5.260965104 -5.817495e+00
## 1595 -1.109625e+00 -0.341807294 -4.80034581 -5.001560490 -5.845535e+00
## 1596 -1.260489e+00 -0.642799844 -5.07021064 -5.260965104 -4.817495e+00
## 1597 -1.260489e+00 -0.642799844 -5.07021064 -5.260965104 -4.817495e+00
## 1598 -1.109625e+00 -0.341807294 -4.80034581 -5.001560490 -4.845535e+00
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## 1601 -1.260489e+00 -0.642799844 -6.07021064 -6.260965104 -6.817495e+00
## 1602 -1.340980e+00 -0.422649889 -5.78145459 -5.750659727 -5.976796e+00
## 1603 -1.383828e+00 -0.770004650 -6.07305917 -5.260059595 -5.868377e+00
## 1604 -1.340980e+00 -0.422649889 -4.78145459 -5.750659727 -5.976796e+00
## 1605 7.365902e+01 74.577350111 69.21854541 68.249340273 6.902320e+01
## 1606 7.273951e+01 73.357200156 68.92978936 68.739034896 6.818251e+01
## 1607 -1.399364e+00 -1.031993524 -5.72281362 -5.937619518 -6.111996e+00
## 1608 -4.246713e-01 -0.198274849 -3.99090166 -3.198770114 -3.030200e+00
## 1609 -1.399364e+00 -1.031993524 -3.72281362 -3.937619518 -5.111996e+00
## 1610 -1.233177e+00 -0.557433958 -3.42836051 -4.429125159 -5.169534e+00
## 1611 -1.303551e+00 -1.078576462 -4.98698139 -5.198835150 -5.982193e+00
## 1612 -1.303551e+00 -1.078576462 -4.98698139 -5.198835150 -5.982193e+00
## 1613 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -5.033075e+00
## 1614 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -6.033075e+00
## 1615 -1.276025e+00 -0.904788718 -4.71996509 -4.938525027 -6.061114e+00
## 1616 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -6.033075e+00
## 1617 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -5.033075e+00
## 1618 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -5.033075e+00
## 1619 -1.276025e+00 -0.904788718 -4.71996509 -4.938525027 -5.061114e+00
## 1620 -1.276025e+00 -0.904788718 -4.71996509 -4.938525027 -6.061114e+00
## 1621 -1.276025e+00 -0.904788718 -4.71996509 -4.938525027 -6.061114e+00
## 1622 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -6.033075e+00
## 1623 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -7.033075e+00
## 1624 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -7.033075e+00
## 1625 -1.577755e+00 -1.506773818 -5.25969475 -5.457334255 -6.005035e+00

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## 1626 -1.577755e+00 -1.506773818 -5.25969475 -5.457334255 -6.005035e+00
## 1627 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -6.033075e+00
## 1628 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -5.033075e+00
## 1629 -1.426890e+00 -2.205781268 -4.98982992 -5.197929641 -5.033075e+00
## 1630 -1.276025e+00 -0.904788718 -4.71996509 -4.938525027 -5.061114e+00
## 1631 -1.208855e+00 -0.366343687 -4.30086922 -4.537407626 -4.907070e+00
## 1632 -1.276025e+00 -0.904788718 -4.71996509 -4.938525027 -5.061114e+00
## 1633 -1.276025e+00 -0.904788718 -4.71996509 -4.938525027 -6.061114e+00
## 1634 -1.276025e+00 -0.904788718 -4.71996509 -4.938525027 -6.061114e+00
## 1635 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -6.033075e+00
## 1636 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -6.033075e+00
## 1637 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -6.033075e+00
## 1638 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -7.033075e+00
## 1639 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -6.033075e+00
## 1640 -1.577755e+00 -1.506773818 -5.25969475 -5.457334255 -7.005035e+00
## 1641 -1.426890e+00 -1.205781268 -4.98982992 -5.197929641 -7.033075e+00
## 1642 -1.577755e+00 -1.506773818 -6.25969475 -6.457334255 -8.005035e+00
## 1643 -1.577755e+00 -1.506773818 -6.25969475 -6.457334255 -9.005035e+00
## 1644 7.329891e+01 73.366021376 67.73745672 67.543571255 6.494408e+01
## 1645 7.314804e+01 73.065028826 66.46759189 67.284166641 6.497212e+01
## 1646 -2.141698e+00 -2.625157404 -8.45487592 -7.651892387 -1.029434e+01
## 1647 -2.222188e+00 -2.405007450 -8.16611987 -9.141587010 -1.145364e+01
## 1648 -2.222188e+00 -2.405007450 -8.16611987 -9.141587010 -1.145364e+01
## 1649 -2.265037e+00 -2.752362210 -9.45772445 -9.650986878 -1.334522e+01
## 1650 -2.265037e+00 -2.752362210 -9.45772445 -9.650986878 -1.134522e+01
## 1651 -2.539241e+00 -3.180559566 -8.73043781 -7.909485982 -9.368062e+00
## 1652 -2.237511e+00 -2.578574467 -6.19070815 -6.390676755 -5.424142e+00
## 1653 -2.071324e+00 -2.104014900 -5.89625504 -6.882182396 -5.481680e+00
## 1654 -1.414900e+00 -1.293982398 -5.37256808 -5.615179441 -4.355616e+00
## 1655 -1.414900e+00 -1.293982398 -5.37256808 -5.615179441 -4.355616e+00
## 1656 -1.264036e+00 -0.992989849 -5.10270325 -5.355774828 -4.383655e+00
## 1657 -1.264036e+00 -0.992989849 -5.10270325 -5.355774828 -5.383655e+00
## 1658 -1.264036e+00 -0.992989849 -5.10270325 -5.355774828 -5.383655e+00
## 1659 -1.414900e+00 -1.293982398 -5.37256808 -5.615179441 -5.355616e+00
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## 1661 -1.414900e+00 -1.293982398 -5.37256808 -5.615179441 -5.355616e+00
## 1662 -1.264036e+00 -0.992989849 -5.10270325 -5.355774828 -5.383655e+00
## 1663 -1.414900e+00 -1.293982398 -5.37256808 -5.615179441 -6.355616e+00
## 1664 -1.414900e+00 -1.293982398 -5.37256808 -5.615179441 -7.355616e+00
## 1665 -1.565765e+00 -1.594974948 -5.64243290 -5.874584055 -8.327576e+00
## 1666 -1.716630e+00 -1.895967498 -5.91229773 -6.133988669 -7.299536e+00
## 1667 -1.867494e+00 -2.196960048 -6.18216256 -6.393393282 -6.271496e+00
## 1668 -1.716630e+00 -1.895967498 -5.91229773 -6.133988669 -5.299536e+00
## 1669 -1.565765e+00 -1.594974948 -5.64243290 -5.874584055 -4.327576e+00
## 1670 -1.414900e+00 -2.293982398 -5.37256808 -5.615179441 -4.355616e+00
## 1671 -1.264036e+00 -0.992989849 -5.10270325 -4.355774828 -4.383655e+00
## 1672 -1.196865e+00 -0.454544818 -4.68360737 -4.954657426 -4.229612e+00
## 1673 7.362795e+01 74.053372362 69.91903650 69.894220427 7.053596e+01
## 1674 7.373596e+01 74.007010151 69.89729675 70.644225172 7.061634e+01
## 1675 -1.538452e+00 -1.509609062 -5.00058278 -6.042744110 -6.679615e+00
## 1676 -1.538452e+00 -1.509609062 -5.00058278 -6.042744110 -6.679615e+00
## 1677 -1.732165e+00 -2.157956373 -5.56205218 -5.811548592 -6.543155e+00
## 1678 -1.732165e+00 -2.157956373 -5.56205218 -5.811548592 -6.543155e+00
## 1679 -1.732165e+00 -2.157956373 -5.56205218 -5.811548592 -5.543155e+00

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## 1680 -1.732165e+00 -2.157956373 -3.56205218 -3.811548592 -4.543155e+00
## 1681 -1.581301e+00 -1.856963823 -3.29218736 -3.552143978 -3.571195e+00
## 1682 -1.485487e+00 -1.903546760 -3.55635512 -3.813359610 -4.441392e+00
## 1683 -1.334623e+00 -1.602554210 -4.28649030 -4.553954997 -4.469432e+00
## 1684 -1.485487e+00 -1.903546760 -4.55635512 -4.813359610 -4.441392e+00
## 1685 -1.457962e+00 -1.729759017 -4.28933883 -4.553049487 -4.520313e+00
## 1686 -1.457962e+00 -1.729759017 -4.28933883 -4.553049487 -5.520313e+00
## 1687 -1.457962e+00 -1.729759017 -4.28933883 -4.553049487 -4.520313e+00
## 1688 -1.608826e+00 -2.030751566 -3.55920365 -3.812454101 -4.492274e+00
## 1689 -1.457962e+00 -1.729759017 -3.28933883 -3.553049487 -3.520313e+00
## 1690 -1.485487e+00 -1.903546760 -1.55635512 -1.813359610 -2.441392e+00
## 1691 -1.334623e+00 -1.602554210 -2.28649030 -2.553954997 -2.469432e+00
## 1692 -1.238809e+00 -1.649137148 -2.55065806 -2.815170628 -3.339628e+00
## 1693 -1.211284e+00 -1.475349404 -2.28364176 -2.554860506 -3.418550e+00
## 1694 -1.362148e+00 -1.776341954 -3.55350659 -3.814265119 -4.390510e+00
## 1695 -1.362148e+00 -1.776341954 -4.55350659 -4.814265119 -4.390510e+00
## 1696 -1.485487e+00 -1.903546760 -4.55635512 -4.813359610 -4.441392e+00
## 1697 -1.457962e+00 -1.729759017 -4.28933883 -4.553049487 -4.520313e+00
## 1698 -1.457962e+00 -1.729759017 -4.28933883 -4.553049487 -4.520313e+00
## 1699 -1.457962e+00 48.270240983 -4.28933883 -4.553049487 -4.520313e+00
## 1700 -1.457962e+00 48.270240983 -4.28933883 -4.553049487 -4.520313e+00
## 1701 4.518351e+01 21.347989451 25.75586734 26.391080428 3.977749e+01
## 1702 4.518351e+01 21.347989451 26.75586734 27.391080428 3.977749e+01
## 1703 -1.294692e+00 -1.676882610 -2.96303832 -3.252526741 -4.641191e+00
## 1704 -1.322217e+00 -1.850670354 -4.23005462 -4.512836864 -4.562270e+00
## 1705 -1.596421e+00 -2.278867710 -4.50276798 -4.771335968 -4.585112e+00
## 1706 -1.568895e+00 -2.105079966 -4.23575168 -4.511025845 -4.664033e+00
## 1707 -1.568895e+00 -2.105079966 -4.23575168 -4.511025845 -4.664033e+00
## 1708 -1.568895e+00 -2.105079966 -4.23575168 -3.511025845 -4.664033e+00
## 1709 -1.568895e+00 -2.105079966 -4.23575168 -4.511025845 -4.664033e+00
## 1710 -1.676912e+00 -2.058717755 -4.21401193 -5.261030591 -4.744413e+00
## [[1]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    1.05838713  0.59626619  0.58268091  0.5971366  0.89971230
## OBFR    0.06717057  0.53844503  0.41909588  0.4011174  0.15404395
## TGCR   -0.08049047  0.22014995  0.28875605 -0.4896946 -0.15930158
## BGCR    0.10801610 -0.04636221 -0.02173975  0.7500047  0.08037990
## SOFR   -0.15086465 -0.30099255 -0.26986483 -0.2594046  0.02803983
## ones_v  0.41546561 -1.29321787 -0.82156816 -0.6799750  0.10513175
##
## [[2]]
##          [,1]          [,2]          [,3]          [,4]          [,5]
## [1,] 0.19224969 0.15112576 0.1589209 0.1573739 0.17288392
## [2,] 0.21710890 0.16754611 0.1733697 0.1724966 0.18417567
## [3,] 0.22907068 0.17925385 0.1902589 0.2033540 0.19962889
## [4,] 0.06178436 0.09139898 0.0954035 0.1209460 0.06360897
## [5,] 0.18627062 0.13622741 0.1396832 0.1417502 0.16737415
## [6,] 0.28059897 0.52877736 0.5134283 0.4702245 0.27187832
##
## [[3]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999961 0.9999946 0.9999914 0.9999914 0.9999932
##
## [[4]]

```

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##          EFFR      OBFR      TGCR      BGCR      SOFR
## [1,] 0.9999961 0.9999945 0.9999914 0.9999914 0.9999931
##
## [[5]]
##          EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR    0.036959943 -0.041165703 0.042524440 -0.003185768 -0.035007325
## OBFR    -0.041165703 0.047136275 -0.048437253 0.003174049 0.039164981
## TGCR     0.042524440 -0.048437253 0.052473376 -0.005629806 -0.040770446
## BGCR    -0.003185768 0.003174049 -0.005629806 0.003817307 0.001793842
## SOFR    -0.035007325 0.039164981 -0.040770446 0.001793842 0.034696743
## ones_v -0.020112200 0.022544994 -0.018960637 0.001978309 0.014244190
##          ones_v      EFFR      OBFR      TGCR      BGCR
## EFFR    -0.020112200 0.022838996 -0.024589406 0.022784952 -0.0061035552
## OBFR     0.022544994 -0.024589406 0.028071698 -0.026283975 0.0054844123
## TGCR    -0.018960637 0.022784952 -0.026283975 0.032131944 -0.0076622615
## BGCR     0.001978309 -0.006103555 0.005484412 -0.007662262 0.0083537730
## SOFR     0.014244190 -0.014779197 0.017181452 -0.020803962 -0.0002008564
## ones_v  0.078735783 -0.040604439 0.038913310 -0.022494901 0.0296379009
##          SOFR      ones_v      EFFR      OBFR      TGCR
## EFFR    -0.0147791969 -0.040604439 0.025255859 -0.022150076 0.019513271
## OBFR     0.0171814517 0.038913310 -0.022150076 0.030057057 -0.028892399
## TGCR    -0.0208039615 -0.022494901 0.019513271 -0.028892399 0.036198448
## BGCR    -0.0002008564 0.029637901 -0.005887559 0.006379359 -0.009503186
## SOFR     0.0185579081 -0.006410579 -0.016632723 0.014421469 -0.017039701
## ones_v -0.0064105794 0.279605495 -0.040905029 0.039861532 -0.024972251
##          BGCR      SOFR      ones_v      EFFR      OBFR
## EFFR    -0.0058875586 -0.0166327234 -0.040905029 0.024766529 -0.021657961
## OBFR     0.0063793587 0.0144214689 0.039861532 -0.021657961 0.029755082
## TGCR    -0.0095031865 -0.0170397011 -0.024972251 0.019711911 -0.029276102
## BGCR     0.0091018271 -0.0002640233 0.029655797 -0.005003766 0.005578864
## SOFR    -0.0002640233 0.0195113934 -0.004493258 -0.017733627 0.015428194
## ones_v  0.0296557966 -0.0044932578 0.263608599 -0.033824583 0.033332336
##          TGCR      BGCR      SOFR      ones_v      EFFR
## EFFR     0.01971191 -0.0050037657 -0.0177336270 -0.033824583 0.029888849
## OBFR    -0.02927610 0.0055788637 0.0154281939 0.033332336 -0.029938181
## TGCR     0.04135286 -0.0145439654 -0.0169541249 -0.023475844 0.030532990
## BGCR    -0.01454397 0.0146279415 -0.0008405263 0.025405520 -0.002052157
## SOFR    -0.01695412 -0.0008405263 0.0200931298 -0.002190238 -0.028337982
## ones_v -0.02347584 0.0254055201 -0.0021902385 0.221111120 -0.016230558
##          OBFR      TGCR      BGCR      SOFR      ones_v
## EFFR    -0.029938181 0.030532990 -0.002052157 -0.028337982 -0.016230558
## OBFR     0.033920679 -0.035190672 0.002741094 0.028314575 0.017985679
## TGCR    -0.035190672 0.039851693 -0.005833318 -0.029115752 -0.014446969
## BGCR     0.002741094 -0.005833318 0.004046101 0.001024542 0.000643112
## SOFR     0.028314575 -0.029115752 0.001024542 0.028014105 0.011694731
## ones_v  0.017985679 -0.014446969 0.000643112 0.011694731 0.073917823
##
## [[6]]
##          [,1] [,2] [,3]
## [1,] 320519.5    6    0
## [2,] 201937.6    6    0
## [3,] 126780.2    6    0
## [4,] 122338.0    6    0
## [5,] 206765.7    6    0

```



```

bvtablek2<-xtable(result[[1]])
sebvtablek2<-xtable(result[[2]])
R2adjtablek2<-xtable(result[[4]])
vtablek2<-xtable(result[[5]])
Ftesttablek2<-xtable(result[[6]])
rrbpk2table <- cbind(bvtablek2, sebvtablek2)

```

```
print(result[[1]])
```

```

##           EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR    1.05838713  0.59626619  0.58268091  0.5971366  0.89971230
## OBFR    0.06717057  0.53844503  0.41909588  0.4011174  0.15404395
## TGCR   -0.08049047  0.22014995  0.28875605 -0.4896946 -0.15930158
## BGCR    0.10801610 -0.04636221 -0.02173975  0.7500047  0.08037990
## SOFR   -0.15086465 -0.30099255 -0.26986483 -0.2594046  0.02803983
## ones_v  0.41546561 -1.29321787 -0.82156816 -0.6799750  0.10513175

```

```
print(result[[2]])
```

```

##           [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.19224969 0.15112576 0.1589209 0.1573739 0.17288392
## [2,] 0.21710890 0.16754611 0.1733697 0.1724966 0.18417567
## [3,] 0.22907068 0.17925385 0.1902589 0.2033540 0.19962889
## [4,] 0.06178436 0.09139898 0.0954035 0.1209460 0.06360897
## [5,] 0.18627062 0.13622741 0.1396832 0.1417502 0.16737415
## [6,] 0.28059897 0.52877736 0.5134283 0.4702245 0.27187832

```

```
print(result[[4]]) # R2adj
```

```

##           EFFR      OBFR      TGCR      BGCR      SOFR
## [1,] 0.9999961 0.9999945 0.9999914 0.9999914 0.9999931

```

```
print(result[[6]])
```

```

##           [,1] [,2] [,3]
## [1,] 320519.5    6    0
## [2,] 201937.6    6    0
## [3,] 126780.2    6    0
## [4,] 122338.0    6    0
## [5,] 206765.7    6    0

```

```

bvtablek2<-xtable(result[[1]])
sebvtablek2<-xtable(result[[2]])
R2adjtablek2<-xtable(result[[4]])
vtablek2<-xtable(result[[5]])
Ftesttablek2<-xtable(result[[6]])
rrbpk2table <- cbind(bvtablek2, sebvtablek2)

```

$k=5$   $r(6,11) = a + b_{-1} r(6,1)$

```

lhv<- rrbp[6:1710,1:5]
T<-nrow(lhv)
ones_v <- rep(1, times = T)
nrow(ones_v)

```

```
## NULL
```

```

rhv1<- rrbp[1:1705,1:5]
rhv<- cbind(rhv1, ones_v) # Add a column of ones

result <-olsghmmv2(lhv,rhv,nlag,nw) #constant

```

```

## [1] 1705
## [1] 1705
## [1] 1705
## [1] 5
## [1] 6
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 108.5419 105.0358 104.6592 105.7836 108.3455
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 6      -0.821613164  0.048153766  4.428221e-01  4.889855e+00 -1.624265e+00
## 7      -0.600380093  0.597058240 -9.152423e-01  2.851222e+00 -1.354981e+00
## 8      -0.768367436 -0.412563030 -1.184540e+00  1.966476e+00 -5.636535e-01
## 9      -1.016403942 -1.014850648 -3.571382e+00 -2.023905e+00 -7.941440e-01
## 10     -1.016403942 -3.014850648 -4.571382e+00 -6.023905e+00 -7.941440e-01
## 11     -1.376938953 -3.455791876 -5.258450e+00 -1.066799e+01 -1.235085e+00
## 12     -1.195730463 -5.203220576 -4.675286e+00 -7.759437e+00 -9.767102e-01
## 13     -0.920488275 -3.486052519 -7.677490e-02  7.893465e-01 -7.964046e-01
## 14     -0.752500932  0.523568751  1.925231e-01  2.674092e+00 -5.877320e-01
## 15     -0.254545951  0.792345361  4.454652e-01  4.827871e+00 -5.094235e-02
## 16      0.064082509  0.872752042  1.594503e+00  6.246118e+00  3.032811e-01
## 17     -0.006509445  1.394632979 -1.167693e+00  2.818252e+00  1.795482e-01
## 18     -0.632427187 -1.587431727  3.688382e-01  6.832545e+00 -5.550051e-01
## 19    -13.017883664 -1.017554726 -5.838768e-01  3.332467e+00 -8.813443e-01
## 20     -1.017883664 -1.017554726 -1.583877e+00  3.324666e-01 -1.288134e+01
## 21     -0.935952532 -1.360687006 -2.987074e+00 -1.388881e+00 -7.837178e-01
## 22     -0.849896321 -2.007933456 -2.314579e+00 -1.782788e+00 -6.726717e-01
## 23     -1.254219851  0.126389396 -1.893757e-02 -2.825721e+00 -1.276139e+00
## 24     12.228190252  8.276513082  8.828981e+00  7.745444e+00  1.157751e+01
## 25     -3.398874706 -5.125056914 -4.863670e+00 -3.737872e+00 -2.384980e+00
## 26     -0.781186336 -0.594015765 -1.031642e+00 -5.279390e-01 -6.247473e-01
## 27     -0.601859815 -0.405645838 -9.277374e-01  2.075932e-01 -4.421812e-01
## 28     -0.630545219 -0.523230354 -1.151903e+00  5.562151e-03 -4.791965e-01
## 29     -0.630545219 -0.523230354 -1.151903e+00  4.005562e+00 -4.791965e-01
## 30     -0.741161754 -0.297682592 -9.728703e-01  1.524879e+00 -6.138384e-01
## 31     -0.699255204 -1.937148045 -3.434839e+00 -4.249287e+00 -5.271208e-01
## 32     -0.699255204 -3.937148045 -4.434839e+00 -5.249287e+00 -5.271208e-01
## 33     -0.699255204 -3.937148045 -5.434839e+00 -5.249287e+00 -5.271208e-01
## 34     -1.141721346 -4.034956994 -7.187105e-01 -1.172020e+00 -1.065688e+00
## 35     -0.920488275 -1.486052519 -3.076775e+00 -4.210654e+00 -7.964046e-01
## 36     -0.351941340 -2.739156847 -4.061637e+00 -3.629009e+00 -1.358820e-01
## 37     -0.185835966 -2.793736949 -3.271598e+00 -3.917280e+00 -3.018032e-03

```

## 38	-0.267767098	-2.450604669	-3.868401e+00	-5.195932e+00	-1.006445e-01
## 39	-0.535031799	-3.055929520	-1.124060e+00	-3.710575e+00	-4.700654e-01
## 40	-7.462557876	-2.513609084	-3.882605e+00	-4.109692e+00	-2.705239e-01
## 41	-0.254545951	-3.207654639	-2.554535e+00	-2.172129e+00	-7.050942e+00
## 42	-0.075219430	-2.019284712	-2.450630e+00	-1.436597e+00	1.316238e-01
## 43	-0.046534027	-1.901700195	-1.226465e+00	7.654344e-01	1.686392e-01
## 44	-0.063880252	-0.840536055	-6.160236e-01	2.414190e+00	1.055174e-01
## 45	7.561302300	5.292627206	4.145715e+00	7.730910e+00	7.345847e+00
## 46	-1.660246788	-3.034074030	-3.704785e+00	-1.768551e-01	-9.667024e-01
## 47	-0.283231355	-1.325239156	-1.778700e+00	1.625840e+00	-8.795772e-02
## 48	-0.422533294	-1.217275910	-1.823833e+00	9.431255e-01	-2.596150e-01
## 49	-0.630545219	-1.523230354	-2.151903e+00	5.562151e-03	-4.791965e-01
## 50	-0.781186336	-1.594015765	-1.031642e+00	2.472061e+00	-6.247473e-01
## 51	-0.712476351	-0.180098075	-1.748705e+00	1.726910e+00	-5.768230e-01
## 52	-0.712476351	-1.180098075	-2.748705e+00	-1.273090e+00	-5.768230e-01
## 53	-0.712476351	-2.180098075	-3.748705e+00	-5.273090e+00	-5.768230e-01
## 54	-0.712476351	-3.180098075	-4.748705e+00	-7.273090e+00	-5.768230e-01
## 55	-0.962394826	-3.846587066	-4.614806e+00	-1.043649e+01	-8.831221e-01
## 56	-1.002419407	-4.142920240	-1.673578e+00	-4.489306e+00	-8.940311e-01
## 57	-0.683790947	-2.062513558	-3.524540e+00	-7.071059e+00	-5.398077e-01
## 58	-0.254545951	-2.207654639	-3.554535e+00	-3.172129e+00	-5.094235e-02
## 59	-0.046534027	-3.901700195	-4.226465e+00	-6.234566e+00	1.686392e-01
## 60	0.243409030	-3.938878030	-1.301593e+00	3.981650e+00	4.858473e-01
## 61	-8.174496788	-0.614988292	-2.436991e+00	9.335065e-01	-2.912446e-02
## 62	-0.033312880	-2.658750165	-2.912599e+00	1.789238e+00	-7.781659e+00
## 63	-0.254545951	-2.207654639	-2.554535e+00	8.278711e-01	-5.094235e-02
## 64	0.243409030	-1.938878030	-2.301593e+00	3.981650e+00	4.858473e-01
## 65	-0.506346395	-0.938345003	-8.998948e-01	1.491456e+00	-4.330501e-01
## 66	8.248607054	5.223522837	5.990031e+00	9.675271e+00	7.913666e+00
## 67	-2.267338582	-2.074598798	-2.766200e+00	-1.676891e-01	-1.550934e+00
## 68	-0.615080962	0.351404132	2.758397e+00	5.183790e+00	-4.918833e-01
## 69	-0.725697498	2.576951895	2.937429e+00	4.703106e+00	-6.265252e-01
## 70	-0.754382901	2.459367378	1.713264e+00	2.501075e+00	-6.635406e-01
## 71	-0.962394826	2.153412934	3.385194e+00	5.563512e+00	-8.831221e-01
## 72	0.079511725	2.513947481	1.923225e+00	6.789346e+00	-7.964046e-01
## 73	-0.006544486	2.161193931	2.507298e-01	4.183253e+00	-9.074507e-01
## 74	-0.143964456	-0.666641450	-3.151438e-01	1.673556e+00	-3.299340e-03
## 75	-0.004662517	0.225395304	-2.700109e-01	3.356270e+00	1.683579e-01
## 76	-0.283266396	0.441321796	6.397233e-01	3.990841e+00	-1.749566e-01
## 77	-1.661073799	0.810329598	2.124695e+00	9.133365e+00	-1.511833e+00
## 78	-0.521771859	2.702366352	1.716983e+01	1.581608e+01	-1.340176e+00
## 79	1.043413385	14.382356574	1.269321e+01	2.058108e+01	1.573375e-01
## 80	1.864086864	11.193986646	1.058931e+01	1.684555e+01	9.747713e-01
## 81	1.724784925	10.301949892	5.544174e+00	1.016283e+01	1.803114e+00
## 82	1.045621454	6.780601983	8.708068e+00	2.110050e+01	1.007950e+00
## 83	-10.643080499	3.373314436	-1.645893e+00	5.043200e+00	5.119631e-01
## 84	-2.050413151	-3.269979656	-7.703862e+00	-8.144805e+00	-1.283157e+01
## 85	-3.586313401	-6.501109497	-7.084500e+00	-1.104487e+01	-2.403423e+00
## 86	-3.057027659	-5.421566620	-5.544196e+00	-6.005247e+00	-2.903398e+00
## 87	-4.085025822	-1.637624017	-2.115590e+00	-6.879463e+00	-4.303808e+00
## 88	9.501741502	4.941605558	5.024346e+00	6.463369e+00	8.987633e+00
## 89	-4.412659948	-6.244950694	-7.510001e+00	-5.055201e+00	-3.446029e+00
## 90	-0.306949886	-2.369962405	-2.808741e+00	9.635027e-01	-2.028857e-01
## 91	-0.845331695	-1.996569483	-1.587219e+00	2.275175e-01	-7.391926e-01

## 92	-1.205866706	-0.437510711	-1.274288e+00	5.834361e-01	-1.180134e+00
## 93	-1.053343620	-1.302523927	-2.915289e+00	-2.710046e+00	-9.587742e-01
## 94	-0.927262828	-2.653437203	-5.184022e+00	-5.051135e+00	-8.368191e-01
## 95	-0.747936307	-4.465067276	-5.080117e+00	-6.315603e+00	-6.542529e-01
## 96	-0.776621710	69.417348208	6.769572e+01	6.248237e+01	-6.912683e-01
## 97	-1.066564767	-3.545473957	-1.229155e+00	-2.733849e+00	-1.008476e+00
## 98	-0.706029756	-2.104532729	-2.542086e+00	-3.089768e+00	-5.675354e-01
## 99	-0.482553575	-0.923943798	-2.303717e+00	-2.973977e+00	-3.606406e-01
## 100	-0.123900533	-1.547203943	-2.095908e+00	-1.502913e+00	4.491771e-03
## 101	-6.860007757	-41.662973808	-4.011341e+01	-3.218726e+01	-5.705463e+00
## 102	-0.417968668	-2.205911937	-3.096473e+00	-2.046569e+00	-3.261359e-01
## 103	-10.416086700	-0.141710564	-6.172138e-01	5.126448e+00	-2.503273e-01
## 104	-0.387401296	68.975873953	6.760695e+01	6.432848e+01	-1.021331e+01
## 105	-0.318691311	68.389791643	6.788989e+01	6.458333e+01	-1.653876e-01
## 106	-0.429307846	68.615339406	6.806892e+01	6.410264e+01	-3.000295e-01
## 107	-0.429307846	0.615339406	6.892030e-02	4.102644e+00	-3.000295e-01
## 108	10.001537346	7.780569329	6.406957e+00	5.242183e+00	9.473426e+00
## 109	-8.925329783	-42.695477470	-4.226916e+01	-3.512661e+01	-7.029276e+00
## 110	-6.791297772	-40.249056117	-3.883048e+01	-3.193241e+01	-5.657538e+00
## 111	-6.791297772	-40.249056117	-3.683048e+01	-2.893241e+01	-5.657538e+00
## 112	-1.053343620	-1.302523927	-9.152888e-01	2.899541e-01	-9.587742e-01
## 113	-0.692808609	-1.861582699	-1.228220e+00	2.934036e+00	-5.178332e-01
## 114	-0.484796685	-0.555628255	-9.001506e-01	2.871599e+00	-2.982516e-01
## 115	-0.416086700	-0.141710564	-1.617214e+00	2.126448e+00	-2.503273e-01
## 116	-0.584074042	-1.151331835	-8.865118e-01	2.241702e+00	-4.589999e-01
## 117	-0.874017099	-1.114154000	-2.811384e+00	1.025486e+00	-7.762080e-01
## 118	-0.984633635	-1.888606237	-3.632352e+00	-5.455197e+00	-9.108498e-01
## 119	-0.942727084	-3.528071690	-6.094321e+00	-9.229362e+00	-1.082413e+01
## 120	-0.914041681	-5.410487173	-3.870156e+00	-4.027331e+00	-7.871169e-01
## 121	-0.874017099	-3.114154000	-3.811384e+00	-4.974514e+00	-7.762080e-01
## 122	-1.037879363	-2.427889440	-2.004990e+00	-5.318183e-01	-9.714610e-01
## 123	-0.387401296	-2.024126047	-3.393049e+00	1.328479e+00	-2.133119e-01
## 124	-2.105409458	-5.858638512	-6.175592e+00	1.009408e+00	-1.145886e+00
## 125	-0.291887876	-1.556825213	-3.652061e-01	9.612342e+00	-2.041808e-01
## 126	-10.318691311	-0.610208357	-1.110112e+00	6.583328e+00	-1.653876e-01
## 127	-0.789842857	0.174398178	-1.618148e+00	2.458563e+00	-1.074097e+01
## 128	-0.829867439	-1.121934996	-1.676920e+00	1.405745e+00	-7.518794e-01
## 129	-0.871773989	-1.482469543	-1.214951e+00	-3.820090e+00	-8.385970e-01
## 130	-1.482227475	-0.589899762	-7.681201e-01	-3.627569e+00	-1.585837e+00
## 131	9.877699663	6.763167062	8.272123e+00	9.737696e+00	9.289082e+00
## 132	-3.213817925	-2.234845340	-3.981703e+00	-2.951850e+00	-2.429916e+00
## 133	-0.969169378	-0.013971750	-7.220528e-01	7.230305e-01	-9.235366e-01
## 134	-0.347376714	-0.727792874	-1.334277e+00	3.381296e+00	-2.024030e-01
## 135	-0.679226321	-0.051149585	2.028196e-01	3.939246e+00	-6.063286e-01
## 136	-1.026540185	0.750859217	-1.170383e+00	-2.681032e+00	-9.975674e-01
## 137	-1.024658216	-2.184939410	-5.691124e+00	-4.508015e+00	-9.217588e-01
## 138	-0.955948231	-4.771021720	-4.408187e+00	-5.253166e+00	-8.738345e-01
## 139	-0.955948231	-4.771021720	-5.408187e+00	-5.253166e+00	-8.738345e-01
## 140	-1.095250170	-4.663058474	-4.453320e+00	-4.935880e+00	-1.045492e+00
## 141	-0.692808609	-4.861582699	-3.228220e+00	4.934036e+00	-5.178332e-01
## 142	-0.661880096	-1.112313726	-1.407622e+00	5.290491e+00	-5.432068e-01
## 143	-0.263202472	-0.439240697	4.858959e+00	1.781437e+01	-1.671655e-01
## 144	-0.345133605	5.903891583	8.262156e+00	2.753572e+01	-2.647920e-01
## 145	-0.373819008	8.786307066	1.003799e+01	3.333369e+01	-3.018073e-01

```

## 146 -1.163599015 11.490506919 1.538092e+01 4.879068e+01 -1.231614e+00
## 147 -12.301018985 15.662671538 2.815044e+00 4.280980e+00 -1.327462e+00
## 148 -2.026214085 3.084903252 5.365214e+00 1.066538e+01 -1.322276e+01
## 149 -3.298845957 5.827477899 3.248324e+00 1.654062e-01 -3.563849e+00
## 150 -4.004812862 4.252746846 1.667312e+00 -8.925936e+00 -4.320220e+00
## 151 -5.834291350 3.994657561 -1.512936e+00 -2.117536e+01 -6.486132e+00
## 152 10.988159960 1.761854941 1.990865e+00 6.328457e-01 9.650497e+00
## 153 -3.532883672 -4.610188364 -4.179081e+00 -1.153448e+01 -3.859746e+00
## 154 -1.064717839 -1.714711632 -1.331472e+00 -4.195831e+00 -1.019667e+00
## 155 -0.414239771 -1.310948239 -4.719531e+00 -3.335534e+00 -2.615176e-01
## 156 -0.162078187 -3.012774791 -2.256997e+00 -1.771236e-02 -1.760743e-02
## 157 -0.711962971 -2.115835041 -5.535440e+00 -3.452376e+00 -4.895777e-01
## 158 -0.590007257 -5.162634147 -6.879865e+00 -8.120906e+00 -3.810422e-01
## 159 -0.770813500 -6.353708153 -5.996265e+00 -7.500066e+00 -6.508087e-01
## 160 -0.864083810 -5.189324530 -7.427674e+00 -1.062951e+01 -7.223288e-01
## 161 -0.797255793 -5.839608213 -3.623997e+00 -4.547674e+00 -7.502130e-01
## 162 -0.558676497 -3.351867879 -4.592503e+00 -4.235062e+00 -4.178075e-01
## 163 0.118605005 -3.894721342 -2.235656e+00 2.654249e+00 3.015483e-01
## 164 0.048013051 -1.372840405 -9.978522e-01 4.226383e+00 1.778154e-01
## 165 0.147290409 -0.777136825 -3.011491e+00 8.562801e-01 3.385637e-01
## 166 -0.133195438 -2.625411706 -5.810161e-01 6.317834e+00 -8.055940e-02
## 167 -10.310639990 -0.749580261 -4.205661e+00 -2.244681e+00 -1.873170e-01
## 168 -0.520533884 -3.119736078 -5.012990e+00 -4.355261e+00 -1.048271e+01
## 169 -0.797255793 -4.839608213 -2.623997e+00 4.523264e-01 -7.502130e-01
## 170 -0.587361900 -2.469452395 -2.816668e+00 -4.370933e-01 -4.548229e-01
## 171 -0.991685430 -1.335129543 -3.521027e+00 -5.480026e+00 -1.058290e+00
## 172 10.606821005 3.505677615 3.550711e+00 4.197850e+00 1.014903e+01
## 173 -2.389183163 -6.025033953 -5.675273e+00 -4.207833e+00 -1.560832e+00
## 174 -0.673056970 -1.254722862 -3.719892e-01 -6.177952e-02 -7.040666e-01
## 175 -0.657953854 -0.947571459 -3.578864e+00 -3.864959e+00 -5.785558e-01
## 176 -0.421256526 -2.524032498 -3.026629e+00 -3.725365e+00 -3.219589e-01
## 177 -0.241930005 -2.335662570 -4.922725e+00 -5.989832e+00 -1.393927e-01
## 178 -0.381231944 -4.227699324 -5.967857e+00 -9.672547e+00 -3.110499e-01
## 179 -0.617929273 -5.651238285 -7.520092e+00 -1.181214e+01 -5.676468e-01
## 180 -0.476745364 -7.695000158 -7.995700e+00 -1.195641e+01 -3.201810e-01
## 181 -0.228708858 -7.092712540 -8.608859e+00 -1.196603e+01 -8.969049e-02
## 182 -0.060721516 -8.083091270 -7.339561e+00 -1.008128e+01 1.189821e-01
## 183 0.326616930 -6.588766898 -6.907586e+00 -7.408188e+00 5.211299e-01
## 184 0.424012319 -6.057264690 -6.400485e+00 -7.951308e+00 6.060696e-01
## 185 0.603338840 -5.868894763 -6.296580e+00 -7.215775e+00 7.886358e-01
## 186 0.632024243 -5.751310246 -5.072415e+00 -6.013744e+00 8.256511e-01
## 187 -9.327951175 -5.454977072 -6.013643e+00 -6.960927e+00 8.365601e-01
## 188 0.492722304 -5.643347000 -6.117548e+00 -7.696459e+00 -9.346006e+00
## 189 0.603338840 -5.868894763 -6.296580e+00 -7.215775e+00 7.886358e-01
## 190 0.603338840 -5.868894763 -6.296580e+00 -7.215775e+00 7.886358e-01
## 191 0.574653436 -5.986479279 -6.520745e+00 -7.417807e+00 7.516204e-01
## 192 11.768836341 1.988650731 1.846634e+00 1.217137e+00 1.135548e+01
## 193 -1.461983186 -8.901398425 -6.452325e+00 -6.155124e+00 -5.351771e-01
## 194 0.603338840 -2.868894763 -3.296580e+00 -3.215775e+00 7.886358e-01
## 195 0.603338840 -2.868894763 -5.296580e+00 -5.215775e+00 7.886358e-01
## 196 0.603338840 -4.868894763 -6.296580e+00 -7.215775e+00 7.886358e-01
## 197 0.603338840 -5.868894763 1.770342e+01 1.678422e+01 7.886358e-01
## 198 25.406666093 18.003899450 1.820996e+01 1.669745e+01 5.429478e-01
## 199 25.200536137 17.762146379 1.736115e+01 1.493290e+01 2.539917e+01

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## 200	25.257906945	17.997315412	1.680948e+01	1.333696e+01	2.547321e+01
## 201	25.534628854	17.717187547	1.542048e+01	1.252938e+01	2.574071e+01
## 202	24.914889154	14.309076837	1.132346e+01	7.935478e+00	2.490027e+01
## 203	-4.676579648	-15.386395986	-1.504922e+01	-1.546521e+01	-2.704036e+00
## 204	0.528631966	-7.444602282	-5.621830e+00	-5.890999e+00	6.922133e-01
## 205	0.667933906	-5.552565529	-3.576697e+00	-3.208285e+00	8.638706e-01
## 206	0.794014698	-2.903478805	-5.845430e+00	-5.549374e+00	9.858256e-01
## 207	0.944655815	-5.832693394	-6.965690e+00	-8.015873e+00	1.131376e+00
## 208	-10.415879195	-6.273634622	-6.652759e+00	-7.659954e+00	6.904355e-01
## 209	0.458040012	-6.922721346	-3.384026e+00	-3.318865e+00	-1.043152e+01
## 210	0.263249235	-3.985725760	-6.398229e+00	-6.232625e+00	3.986010e-01
## 211	0.211885475	-6.460807591	-6.291608e+00	-6.136229e+00	4.137985e-01
## 212	0.667933906	-5.552565529	-6.576697e+00	-5.208285e+00	8.638706e-01
## 213	12.797458071	2.955747731	2.021839e+00	1.361401e+00	1.226604e+01
## 214	-1.981801559	-10.268096645	-1.012464e+01	-1.143689e+01	-1.096386e+00
## 215	0.072583536	-7.352844345	-6.336741e+00	-7.818944e+00	2.421413e-01
## 216	0.210003506	-5.525008964	-4.770867e+00	-4.309246e+00	3.379899e-01
## 217	0.238688910	-4.407424447	-2.546702e+00	-1.072151e-01	3.750053e-01
## 218	0.446700834	-3.101470003	-2.218632e+00	3.830348e+00	5.945868e-01
## 219	0.486725416	-1.805136829	-5.159860e+00	-6.116834e+00	6.054958e-01
## 220	0.389330027	-5.336639036	-6.666962e+00	-7.573714e+00	5.205561e-01
## 221	0.070701567	-6.417045718	-7.816000e+00	-9.991961e+00	1.663327e-01
## 222	-0.276612297	-7.615036916	-6.189202e+00	-8.612239e+00	-2.249061e-01
## 223	-0.677171889	-5.352311318	-5.935043e+00	-1.030914e+01	-6.767561e-01
## 224	0.114490086	-6.992309798	-6.798710e+00	-6.593109e+00	3.288588e-01
## 225	0.349305446	-5.632972210	-5.725734e+00	-4.626532e+00	5.096472e-01
## 226	0.446700834	-5.101470003	-5.218632e+00	-5.169652e+00	5.945868e-01
## 227	0.347423477	-4.697173583	-3.204993e+00	1.200451e+00	4.338386e-01
## 228	-9.789996494	-3.525008964	-4.770867e+00	-3.309246e+00	3.379899e-01
## 229	0.210003506	-4.525008964	-5.770867e+00	-5.309246e+00	-9.662010e+00
## 230	0.099386971	-5.299461201	-5.591835e+00	-5.789930e+00	2.033480e-01
## 231	0.210003506	-5.525008964	-5.770867e+00	-6.309246e+00	3.379899e-01
## 232	-0.400449979	-4.632439183	-6.324036e+00	-1.111673e+01	-4.092502e-01
## 233	10.988162562	0.838212158	9.403722e-01	-1.549429e+00	1.050268e+01
## 234	-2.034645040	-9.745882554	-8.030517e+00	-7.984127e+00	-1.168389e+00
## 235	0.099386971	-4.299461201	-5.591835e+00	-5.789930e+00	2.033480e-01
## 236	0.210003506	-5.525008964	-6.770867e+00	-6.309246e+00	3.379899e-01
## 237	0.349305446	-6.632972210	-6.725734e+00	-6.626532e+00	5.096472e-01
## 238	0.418015431	-6.219054520	-4.442797e+00	-3.371683e+00	5.575715e-01
## 239	0.139411552	-4.003128027	-6.533063e+00	-7.737112e+00	2.142570e-01
## 240	0.030676985	-6.713378892	-6.874772e+00	-9.044778e+00	1.554237e-01
## 241	0.128072374	-6.181876684	-7.367670e+00	-9.587899e+00	2.403634e-01
## 242	0.307398895	-6.993506757	-7.263765e+00	-8.852366e+00	4.229296e-01
## 243	0.139411552	-7.003128027	-7.533063e+00	-9.737112e+00	2.142570e-01
## 244	0.169978925	-7.821342138	-6.829639e+00	-8.362064e+00	3.270810e-01
## 245	0.418015431	-6.219054520	-7.442797e+00	-7.371683e+00	5.575715e-01
## 246	0.446700834	-7.101470003	-5.218632e+00	-5.169652e+00	5.945868e-01
## 247	-8.484589180	-4.687552312	-6.935695e+00	-7.914803e+00	6.425112e-01
## 248	0.515410820	-28.687552312	-2.793570e+01	-2.291480e+01	-8.357489e+00
## 249	0.486725416	-28.805136829	-2.815986e+01	-2.111683e+01	6.054958e-01
## 250	0.336084299	-27.875922240	-2.803960e+01	-2.365034e+01	4.599450e-01
## 251	0.347423477	-5.697173583	-7.204993e+00	-8.799549e+00	4.338386e-01
## 252	10.426938600	-0.443596749	-1.726769e-01	-8.348793e-01	1.005682e+01
## 253	0.106934932	3.511945009	2.230404e+00	-3.594991e+00	4.748862e-01

## 254	1.744491684	6.692293831	5.428639e+00	-1.910944e+00	1.397034e+00
## 255	1.897014770	5.827280615	4.787638e+00	-1.204426e+00	1.618393e+00
## 256	0.446700834	-7.101470003	-5.218632e+00	-6.169652e+00	5.945868e-01
## 257	0.515410820	-4.687552312	-4.935695e+00	-4.914803e+00	6.425112e-01
## 258	0.515410820	-4.687552312	1.906430e+01	1.908520e+01	6.425112e-01
## 259	25.515410820	19.312447688	1.806430e+01	1.708520e+01	6.425112e-01
## 260	25.515410820	18.312447688	1.806430e+01	1.708520e+01	2.564251e+01
## 261	25.458040012	18.077278654	1.761597e+01	1.668113e+01	2.556848e+01
## 262	25.210003506	17.474991036	1.722913e+01	1.569075e+01	2.533799e+01
## 263	24.521553821	14.652962636	1.284917e+01	1.184201e+01	2.444962e+01
## 264	-4.901927639	-14.032888916	-1.325421e+01	-1.367393e+01	-2.946010e+00
## 265	0.330087411	-5.037712069	-6.081913e+00	-7.070710e+00	4.114469e-01
## 266	0.330087411	-6.037712069	-6.081913e+00	-7.070710e+00	4.114469e-01
## 267	0.330087411	-6.037712069	-6.081913e+00	-7.070710e+00	4.114469e-01
## 268	0.301402007	-6.155296586	-5.306078e+00	-5.272741e+00	3.744315e-01
## 269	0.204006619	-5.686798793	-2.813180e+00	1.270379e+00	2.894918e-01
## 270	-8.836017963	-2.983131967	-6.871952e+00	-5.782439e+00	2.785829e-01
## 271	0.232692022	-6.569214276	-6.589015e+00	-6.527590e+00	-8.673493e+00
## 272	0.232692022	-6.569214276	-5.589015e+00	-5.527590e+00	3.265072e-01
## 273	0.093390083	-5.461251030	-4.634148e+00	-3.210305e+00	1.548500e-01
## 274	-0.503842256	-4.325731219	-4.873451e+00	-4.993981e+00	-5.426879e-01
## 275	9.785566761	1.298001432	1.966195e+00	2.081269e+00	9.375684e+00
## 276	-1.736714337	-7.072919810	-8.250153e+00	-7.653687e+00	-9.995663e-01
## 277	0.093390083	-5.461251030	-5.634148e+00	-4.210305e+00	1.548500e-01
## 278	-0.225238377	-5.541657712	-2.783185e+00	3.714485e-01	-1.993735e-01
## 279	-0.404564898	-2.730027639	-1.887090e+00	1.635916e+00	-3.819397e-01
## 280	-0.183331827	-2.181123165	-3.245154e+00	5.972832e-01	-1.126559e-01
## 281	-0.154646423	-2.063538648	-3.020989e+00	7.993143e-01	-7.564055e-02
## 282	-0.196552974	-2.424073195	-5.559020e+00	-5.426520e+00	-1.623581e-01
## 283	-0.614458791	-5.100183457	-6.694419e+00	-1.147466e+01	-6.773298e-01
## 284	-0.959890686	-7.233973282	-7.588362e+00	-1.292192e+01	-9.927600e-01
## 285	-0.889298732	-7.755854218	-6.826166e+00	-8.494059e+00	-8.690271e-01
## 286	-0.889298732	-6.755854218	-6.826166e+00	-8.494059e+00	-8.690271e-01
## 287	-0.402682929	-6.665826266	-6.407830e+00	-6.191067e+00	-3.061311e-01
## 288	0.163982037	-5.983131967	-4.871952e+00	-7.824390e-01	2.785829e-01
## 289	0.232692022	-4.569214276	-1.589015e+00	6.472410e+00	3.265072e-01
## 290	-8.127842989	-1.010155505	-3.276083e+00	-2.171672e+00	-1.144338e-01
## 291	-0.196552974	-4.424073195	-5.559020e+00	-6.426520e+00	-8.162358e+00
## 292	-0.196552974	-5.424073195	-5.559020e+00	-7.426520e+00	-1.623581e-01
## 293	-0.446471449	-6.090562186	-5.425121e+00	-7.589918e+00	-4.686572e-01
## 294	-1.043703787	-4.955042375	-4.664424e+00	-9.373594e+00	-1.166195e+00
## 295	8.293017744	0.196671167	-4.454944e-01	-2.584331e+00	7.890745e+00
## 296	-1.806904044	-8.489541578	-9.545585e+00	-1.055216e+01	-1.134691e+00
## 297	0.024680098	-6.875168721	-6.917084e+00	-8.465154e+00	1.069256e-01
## 298	-0.017226453	-6.235703267	-5.455115e+00	-7.690988e+00	2.020809e-02
## 299	-0.114621842	-5.767205475	-6.962217e+00	-9.147868e+00	-6.473160e-02
## 300	-0.044029888	-7.289086411	-6.200021e+00	-4.720002e+00	5.900132e-02
## 301	0.053365501	-5.757584204	-6.692919e+00	-6.263122e+00	1.439410e-01
## 302	0.232692022	-6.569214276	-6.589015e+00	-4.527590e+00	3.265072e-01
## 303	0.204006619	-6.686798793	-5.813180e+00	-5.729621e+00	2.894918e-01
## 304	0.163982037	-5.983131967	-6.871952e+00	-6.782439e+00	2.785829e-01
## 305	-0.127842989	-6.010155505	-6.276083e+00	-9.171672e+00	-1.144338e-01
## 306	-0.057251034	-6.532036441	-6.513887e+00	-8.743806e+00	9.299145e-03
## 307	-0.099157585	-5.892570988	-5.051918e+00	-5.969640e+00	-7.741840e-02

## 308	0.093390083	-5.461251030	-4.634148e+00	-2.210305e+00	1.548500e-01
## 309	0.053365501	-4.757584204	-2.692919e+00	7.368776e-01	1.439410e-01
## 310	0.232692022	-3.569214276	-4.589015e+00	-1.527590e+00	3.265072e-01
## 311	0.232692022	-4.569214276	-2.589015e+00	6.472410e+00	3.265072e-01
## 312	-8.017226453	-2.235703267	-2.455115e+00	2.309012e+00	2.020809e-02
## 313	-0.335854913	-2.316109949	-3.604153e+00	-1.109235e+00	-8.334015e+00
## 314	-0.572552241	-3.739648910	-4.156388e+00	-2.248829e+00	-5.906123e-01
## 315	-0.473274883	-4.143945330	-4.170026e+00	-2.618933e+00	-4.298640e-01
## 316	-1.125634919	-2.611910096	-3.261227e+00	-4.652247e+00	-1.263822e+00
## 317	8.001192718	2.169647630	3.150374e+00	6.026436e+00	7.497729e+00
## 318	-2.444160964	-5.650354941	-4.843660e+00	-1.388658e+00	-1.843138e+00
## 319	-0.723193358	-1.810434321	-1.036127e+00	1.217670e+00	-7.361631e-01
## 320	-0.612576823	-2.035982084	-1.215159e+00	2.698353e+00	-6.015212e-01
## 321	-0.723193358	-0.810434321	-3.612718e-02	5.217670e+00	-7.361631e-01
## 322	-0.973111833	0.523076688	2.509777e+01	2.805427e+01	-1.042462e+00
## 323	23.929492778	24.991574481	2.459067e+01	2.759739e+01	-1.127402e+00
## 324	23.942713925	24.234524511	2.090454e+01	2.262120e+01	2.392230e+01
## 325	23.832097389	21.460072274	1.908357e+01	1.514051e+01	2.378766e+01
## 326	23.513468929	19.379665592	1.693453e+01	1.072226e+01	2.343343e+01
## 327	22.838240390	13.800587222	1.186843e+01	5.897322e+00	2.259477e+01
## 328	-6.793252994	-16.191218774	-1.356302e+01	-1.755618e+01	-5.020444e+00
## 329	-1.322658647	-5.708301593	-6.359225e+00	-9.640348e+00	-1.330582e+00
## 330	-0.506075206	-6.359118303	-5.957245e+00	-8.068322e+00	-4.395688e-01
## 331	-0.200667893	-5.521661651	-5.122074e+00	-5.673879e+00	-1.350476e-01
## 332	0.018683210	-5.036958550	-3.959397e+00	-1.885529e+00	5.842756e-02
## 333	-0.259920669	-3.821032058	9.503370e-01	9.749042e+00	-2.848869e-01
## 334	-10.437365221	0.054799388	-3.674308e+00	-8.134730e-01	-3.916445e-01
## 335	-0.147422164	-3.982378447	-5.749436e+00	-4.597257e+00	-1.007444e+01
## 336	-0.258038700	-5.756830685	-5.570404e+00	-7.077941e+00	-2.090783e-01
## 337	-0.507957175	-6.423319676	-7.436504e+00	-1.024134e+01	-5.153774e-01
## 338	-1.605026463	-6.620777847	-7.408009e+00	-1.535181e+01	-1.825514e+00
## 339	9.995361940	-1.715769316	-8.570124e-01	-4.500917e+00	9.457619e+00
## 340	-2.571397232	-11.391621965	-1.111299e+01	-1.300767e+01	-1.763382e+00
## 341	-0.147422164	-7.982378447	-7.749436e+00	-7.597257e+00	-7.443646e-02
## 342	-0.021341372	-7.333291724	-7.018169e+00	-6.938346e+00	4.751861e-02
## 343	0.047368613	-6.919374033	-4.735232e+00	-4.683498e+00	9.544293e-02
## 344	0.047368613	-4.919374033	-5.735232e+00	-6.683498e+00	9.544293e-02
## 345	0.047368613	-5.919374033	-6.735232e+00	-7.683498e+00	9.544293e-02
## 346	-0.063247922	-6.693826270	-5.556200e+00	-7.164181e+00	-3.919894e-02
## 347	-0.063247922	-5.693826270	-6.556200e+00	-8.164181e+00	-3.919894e-02
## 348	-0.120618729	-6.928995304	-5.004530e+00	-4.568243e+00	-1.132297e-01
## 349	-0.118736761	-5.864793931	-5.525271e+00	-5.395226e+00	-3.742109e-02
## 350	-0.021341372	-5.333291724	-5.018169e+00	-4.938346e+00	4.751861e-02
## 351	0.018683210	-6.036958550	-4.959397e+00	-4.885529e+00	5.842756e-02
## 352	-0.021341372	-5.333291724	-6.018169e+00	-5.938346e+00	4.751861e-02
## 353	-0.231235265	-5.703447541	-3.825498e+00	-2.048927e+00	-2.478716e-01
## 354	-9.258038700	-4.756830685	-6.570404e+00	-7.077941e+00	-2.090783e-01
## 355	-0.258038700	-6.756830685	-7.570404e+00	-9.077941e+00	-9.209078e+00
## 356	-0.189328715	-7.342912994	-7.287467e+00	-8.823092e+00	-1.611540e-01
## 357	-0.229353296	-7.639246168	-7.346239e+00	-8.875910e+00	-1.720630e-01
## 358	-0.549863725	-6.783854222	-6.974535e+00	-1.046717e+01	-6.020950e-01
## 359	9.750884470	-0.981372914	-3.002833e-01	-1.541137e+00	9.290170e+00
## 360	-1.880131195	-10.062545020	-9.858340e+00	-1.058376e+01	-1.143913e+00
## 361	0.047368613	-6.919374033	-5.735232e+00	-5.683498e+00	9.544293e-02



```

## 362    0.047368613 -5.919374033 -4.735232e+00 -3.683498e+00  9.544293e-02
## 363    0.047368613 -4.919374033 -4.735232e+00 -6.834975e-01  9.544293e-02
## 364    0.047368613 -4.919374033 -2.735232e+00  2.316502e+00  9.544293e-02
## 365    0.047368613 -2.919374033 -4.735232e+00  3.165025e-01  9.544293e-02
## 366   -0.091933326 -4.811410787 -4.780365e+00 -3.662120e-01 -7.621431e-02
## 367   -0.299945250 -5.117365231 -5.108435e+00 -4.303775e+00 -2.957959e-01
## 368   -0.700504843 -4.854639633 -5.854275e+00 -8.000674e+00 -7.476458e-01
## 369   -0.868492185 -5.864260904 -7.123573e+00 -1.088542e+01 -9.563184e-01
## 370   -0.948541349 -7.456927251 -7.241116e+00 -1.099106e+01 -9.781363e-01
## 371   -0.811121378 -6.629091870 -3.675243e+00 -4.481358e+00 -8.822877e-01
## 372   -0.479271771 -4.305735159 -5.212339e+00 -6.039308e+00 -4.783621e-01
## 373   -0.339969832 -5.413698405 -5.167206e+00 -5.356593e+00 -3.067048e-01
## 374   -0.131957908 -5.107743961 -5.839137e+00 -6.419030e+00 -8.712326e-02
## 375   -0.063247922 -5.693826270 -5.556200e+00 -6.164181e+00 -3.919894e-02
## 376   -0.481153740 -5.369936532 -1.691599e+00  2.787675e+00 -5.541707e-01
## 377   -9.437365221 -2.945200612 -4.674308e+00 -1.813473e+00 -3.916445e-01
## 378   -0.368655236 -4.531282922 -5.391371e+00 -5.558624e+00 -9.343720e+00
## 379   -0.229353296 -5.639246168 -6.346239e+00 -6.875910e+00 -1.720630e-01
## 380   -0.160643311 -6.225328477 -6.063302e+00 -5.621061e+00 -1.241386e-01
## 381   -1.049700675 -5.116832204 -5.706737e+00 -9.793969e+00 -1.214693e+00
## 382    9.113627549 -0.142186277  4.016417e-01 -1.377631e+00  8.581723e+00
## 383   -2.296155044 -9.674453909 -9.514479e+00 -8.458887e+00 -1.583076e+00
## 384   -0.229353296 -6.639246168 -5.346239e+00 -4.875910e+00 -1.720630e-01
## 385   -0.271259847 -4.999780715 -3.884270e+00 -1.101744e+00 -2.587805e-01
## 386   -0.271259847 -3.999780715 -3.884270e+00 -1.017443e-01 -2.587805e-01
## 387   -0.271259847 -3.999780715 -5.884270e+00 -6.101744e+00 -2.587805e-01
## 388   -0.381876382 -5.774232952 -6.705237e+00 -9.582428e+00 -3.934224e-01
## 389   -0.299945250 -7.117365231 -7.108435e+00 -9.303775e+00 -2.957959e-01
## 390   -0.729190246 -6.972224150 -7.078440e+00 -1.120271e+01 -7.846612e-01
## 391    0.091483233 -7.160594078 -6.182345e+00 -1.093824e+01 -9.672274e-01
## 392   -0.408679817 -6.827616096 -7.450143e+00 -9.611442e+00 -3.546291e-01
## 393   -0.021341372 -7.333291724 -7.018169e+00 -7.938346e+00  4.751861e-02
## 394    0.047368613 -6.919374033 -6.735232e+00 -7.683498e+00  9.544293e-02
## 395    0.047368613 -6.919374033 -6.735232e+00 -7.683498e+00  9.544293e-02
## 396   -1.097866540 -7.822713099 -3.773719e+00  2.711801e-01 -9.982566e-01
## 397  -10.021341372 -3.333291724 -6.018169e+00 -5.938346e+00  4.751861e-02
## 398    0.047368613 -5.919374033 -6.735232e+00 -6.683498e+00 -9.904557e+00
## 399    0.047368613 -6.919374033 -6.735232e+00 -6.683498e+00  9.544293e-02
## 400    0.047368613 -6.919374033 -5.735232e+00 -5.683498e+00  9.544293e-02
## 401   -0.620455679 -5.261973286 -5.736731e+00 -8.895039e+00 -7.258279e-01
## 402   10.798724235  0.390463945  1.231101e+00  1.047305e+00  1.029893e+01
## 403   -2.197279933 -9.140247623 -8.994882e+00 -9.358378e+00 -1.410936e+00
## 404   -0.063247922 -5.693826270 -5.556200e+00 -6.164181e+00 -3.919894e-02
## 405   -0.091933326 -5.811410787 -6.780365e+00 -7.366212e+00 -7.621431e-02
## 406   -0.160643311 -7.225328477 -5.063302e+00 -3.621061e+00 -1.241386e-01
## 407   -0.160643311 -5.225328477 -5.063302e+00 -4.621061e+00 -1.241386e-01
## 408   -0.160643311 -5.225328477 -5.063302e+00 -4.621061e+00 -1.241386e-01
## 409   -0.160643311 -5.225328477 -5.063302e+00 -4.621061e+00 -1.241386e-01
## 410   -0.131957908 -5.107743961 -2.839137e+00 -1.419030e+00 -8.712326e-02
## 411   -0.341851801 -3.477899778 -2.646466e+00 -2.529610e+00 -3.825134e-01
## 412   -0.368655236 -4.531282922 -4.391371e+00 -3.558624e+00 -3.437202e-01
## 413   -0.368655236 -78.531282922 -7.939137e+01 -7.655862e+01 -3.437202e-01
## 414   -0.368655236 -79.531282922 -7.739137e+01 -7.255862e+01 -3.437202e-01
## 415   -0.536642578 -77.540904192 -7.666067e+01 -7.144337e+01 -5.523928e-01

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## 416 -0.605352564 -5.954821883 -6.943606e+00 -6.698219e+00 -6.003171e-01
## 417 -0.576667160 -6.837237366 -3.719441e+00 -1.496188e+00 -5.633018e-01
## 418 -2.561956058 36.062606007 3.238833e+01 2.955359e+01 5.489967e+00
## 419 6.228150049 34.692450189 3.358100e+01 3.044301e+01 -3.805423e+00
## 420 5.951428139 34.972578055 3.296999e+01 2.925060e+01 4.927071e+00
## 421 -0.450586368 -4.188150642 -4.988174e+00 -8.372765e-01 -4.413467e-01
## 422 -0.689165664 -4.675890976 -5.019668e+00 -6.149888e+00 -7.737522e-01
## 423 9.211022938 1.389315930 1.908744e+00 3.079249e+00 8.666663e+00
## 424 -2.698596605 -7.475929683 -6.739579e+00 -5.328803e+00 -2.110735e+00
## 425 -0.908516767 -4.160594078 -4.182345e+00 -3.938238e+00 -9.672274e-01
## 426 -0.990447899 -3.817461798 -3.779147e+00 -3.216890e+00 -1.064854e+00
## 427 -0.479271771 -4.305735159 -4.212339e+00 -1.039308e+00 -4.783621e-01
## 428 -0.700504843 -3.854639633 -8.542749e-01 3.999326e+00 -7.476458e-01
## 429 -0.839806782 -0.746676387 1.005922e-01 4.316611e+00 -9.193030e-01
## 430 -0.797900231 -0.386141840 -2.361377e+00 1.542446e+00 -8.325855e-01
## 431 -0.908516767 -2.160594078 -3.182345e+00 -1.938238e+00 -9.672274e-01
## 432 -0.908516767 -3.160594078 -5.182345e+00 -5.938238e+00 -9.672274e-01
## 433 -1.326422585 -4.836704339 -5.317743e+00 -1.098638e+01 -1.482199e+00
## 434 -1.561237944 -6.196041927 -4.390719e+00 -7.952959e+00 -1.662987e+00
## 435 -1.461960586 -4.600338347 -5.404358e+00 -7.323062e+00 -1.502239e+00
## 436 -1.074622141 -5.106013975 -5.972383e+00 -8.649967e+00 -1.100091e+00
## 437 -0.727308277 -5.908022777 -7.599181e+00 -1.102969e+01 -7.088526e-01
## 438 -0.258038700 -7.756830685 -5.570404e+00 -2.077941e+00 -2.090783e-01
## 439 -8.536642578 -5.540904192 -6.660669e+00 -7.443370e+00 -5.523928e-01
## 440 -0.755993681 -7.025607294 -7.823346e+00 -9.231720e+00 -9.745868e+00
## 441 -0.437365221 -7.945200612 -5.674308e+00 -3.813473e+00 -3.916445e-01
## 442 -0.090051357 -5.747209414 -4.301106e+00 -2.193195e+00 -4.057131e-04
## 443 -0.563084872 -3.026804252 -3.288401e+00 -4.490977e+00 -6.517972e-01
## 444 8.592428169 1.872337990 3.473644e-01 1.389737e+00 8.146769e+00
## 445 -2.101364266 -8.611449494 -8.500275e+00 -8.545127e+00 -1.413197e+00
## 446 -0.452468336 -5.252352015 -5.467433e+00 -7.010293e+00 -5.171553e-01
## 447 -0.507957175 -6.423319676 -5.436504e+00 -6.241339e+00 -5.153774e-01
## 448 -0.576667160 -5.837237366 1.928056e+01 1.950381e+01 4.366982e-01
## 449 24.480703647 19.397931667 2.172889e+01 2.390787e+01 5.107290e-01
## 450 24.728740153 22.000219285 2.211573e+01 2.389826e+01 2.474122e+01
## 451 24.728740153 22.000219285 2.211573e+01 2.489826e+01 2.474122e+01
## 452 25.700054750 21.882634769 2.189157e+01 2.369622e+01 2.570420e+01
## 453 25.010125342 19.057902290 1.849911e+01 1.920385e+01 2.472863e+01
## 454 -4.899971920 -8.717977214 -8.022612e+00 -7.615080e+00 -3.229892e+00
## 455 0.029997507 -1.493351567 -1.193728e+00 -5.896582e-01 -1.394759e-02
## 456 -0.080619029 -1.267803804 -1.014696e+00 -1.070342e+00 -1.485895e-01
## 457 -0.880020041 -1.975855750 -1.692475e+00 -1.139015e+00 -9.382505e-01
## 458 -0.826774312 -2.436572547 2.680163e+00 8.937607e+00 -8.776393e-01
## 459 -10.103496222 1.843555319 -1.930844e+00 7.451946e-01 -1.145145e+00
## 460 -1.172206207 -2.570362372 -2.213781e+00 4.903458e-01 -1.019307e+01
## 461 -1.172206207 -2.570362372 -2.213781e+00 1.490346e+00 -1.193070e+00
## 462 -1.172206207 -1.570362372 -1.213781e+00 -5.509654e+00 -1.193070e+00
## 463 -1.868715903 -6.030546141 -6.439445e+00 -9.923227e+00 -2.051356e+00
## 464 8.283273143 -2.234648871 -1.165673e+00 -4.357675e+00 7.771167e+00
## 465 -3.349624490 -12.380022350 -1.220299e+01 -1.557331e+01 -2.738725e+00
## 466 -1.601451203 -10.425221291 -1.018379e+01 -8.408584e+00 -1.681935e+00
## 467 -0.813914306 -10.761105600 -1.012315e+01 -2.019997e+00 -6.897396e-01
## 468 -0.769403505 -5.201403513 -4.871507e+00 3.341669e+00 -8.036086e-01
## 469 -0.450775045 -2.120996832 -1.722470e+00 1.759916e+00 -4.493852e-01

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## 470 -0.255984267 -3.057992417 -2.708266e+00 -3.263246e-01 -2.795058e-01
## 471 -0.822288093 -3.173203633 -3.126971e+00 -6.753545e+00 -1.002417e+00
## 472 -1.127695406 -5.010660285 -4.962142e+00 -9.147989e+00 -1.306939e+00
## 473 -1.654335791 -6.397021411 -6.439250e+00 -1.150380e+01 -1.880744e+00
## 474 -1.282822743 -9.344814609 -9.034749e+00 -4.990338e+00 -1.327711e+00
## 475 -0.977415430 -5.507357958 -5.199577e+00 -3.595894e+00 -1.023190e+00
## 476 -0.561391581 -4.895449069 -4.543438e+00 -1.720768e+00 -5.840270e-01
## 477 -0.463996192 -4.363946862 -4.036336e+00 -3.263888e+00 -4.990873e-01
## 478 -0.477217339 -4.606896892 -4.350202e+00 -4.287691e+00 -5.487895e-01
## 479 -1.030300017 -3.479158078 -3.455041e+00 -6.911087e-01 -1.221999e+00
## 480 -8.990636576 -0.750307988 -5.134429e-01 -6.619698e+00 -1.072892e+00
## 481 -0.990636576 -5.750307988 -5.513443e+00 -7.619698e+00 -9.072892e+00
## 482 -0.769403505 -6.201403513 -5.871507e+00 -6.658331e+00 -8.036086e-01
## 483 -0.672008116 -5.669901306 -5.364405e+00 -9.201451e+00 -7.186689e-01
## 484 -1.335707330 -6.316614729 -6.290212e+00 -1.208555e+01 -1.526520e+00
## 485 8.326495619 -5.169114761 -4.280505e+00 1.663897e+00 7.983315e+00
## 486 -2.213649201 -8.321451999 -8.068034e+00 -7.072247e+00 -1.643077e+00
## 487 -0.561391581 -5.895449069 -5.543438e+00 -5.720768e+00 -5.840270e-01
## 488 -0.229541974 -7.572092357 -7.080534e+00 -4.278717e+00 -1.801014e-01
## 489 -0.255984267 -5.057992417 -4.708266e+00 -5.326325e+00 -2.795058e-01
## 490 -0.698450410 -5.155801366 -4.992137e+00 -2.490583e-01 -8.180733e-01
## 491 -0.672008116 -0.669901306 -3.644054e-01 -2.014512e-01 -7.186689e-01
## 492 -0.561391581 -0.895449069 -5.434376e-01 -2.720768e+00 -5.840270e-01
## 493 -0.574612728 -2.138399099 -1.857303e+00 -4.744571e+00 -6.337292e-01
## 494 -0.450775045 -5.120996832 -4.722470e+00 -3.240084e+00 -4.493852e-01
## 495 -1.238311942 -0.785112522 -7.831103e-01 -4.628672e+00 -1.441580e+00
## 496 -1.158985060 -4.327412342 -3.899915e+00 -5.485851e+00 -1.143367e+00
## 497 -0.827135453 -6.004055630 -5.437011e+00 -3.043800e+00 -7.394418e-01
## 498 -0.632344676 -3.941051216 -3.422808e+00 1.869959e+00 -5.695624e-01
## 499 -7.769403505 0.798596487 1.128493e+00 4.341669e+00 -8.036086e-01
## 500 -0.964194283 1.735592072 2.114289e+00 5.427909e+00 -7.973488e+00
## 501 -0.840356600 0.752994340 1.249123e+00 3.932396e+00 -7.891439e-01
## 502 -0.964194283 1.735592072 2.114289e+00 2.427909e+00 -9.734880e-01
## 503 -1.393439278 1.880733154 2.144284e+00 -4.710211e-01 -1.462353e+00
## 504 6.130222806 5.786508378 6.323227e+00 9.061378e+00 5.679617e+00
## 505 -3.326141640 0.100469554 3.997523e-01 -8.129645e-01 -2.813721e+00
## 506 -1.659183151 0.772126592 1.250710e+00 1.205946e+00 -1.617768e+00
## 507 -1.548566615 0.546578829 1.071678e+00 6.866297e-01 -1.483126e+00
## 508 -1.437950080 0.321031067 8.926453e-01 2.167313e+00 -1.348484e+00
## 509 -1.991032758 1.448769881 1.787806e+00 9.763896e+00 -2.021694e+00
## 510 -1.840752782 8.952072208 9.550372e+00 6.315990e+00 -1.737945e+00
## 511 -0.743357393 6.483574415 7.057474e+00 5.772870e+00 -6.530055e-01
## 512 -0.632740857 4.258026652 4.878442e+00 6.253553e+00 -5.183637e-01
## 513 -0.743357393 6.483574415 7.057474e+00 5.772870e+00 -6.530055e-01
## 514 -1.849522750 8.739052043 8.847796e+00 1.996604e+01 -9.994242e-01
## 515 23.725154862 17.266361292 1.827033e+01 2.512680e+01 3.616503e-02
## 516 22.886090409 22.829459256 2.365095e+01 2.598672e+01 2.309740e+01
## 517 22.859648116 26.343559196 2.702322e+01 2.593911e+01 2.299799e+01
## 518 22.886090409 24.829459256 2.565095e+01 2.698672e+01 2.309740e+01
## 519 20.990908434 29.418117116 2.936814e+01 1.814767e+01 2.067158e+01
## 520 -7.029925429 6.581047181 6.882919e+00 4.027999e+00 -5.304510e+00
## 521 -2.130884516 9.056403854 9.891204e+00 1.069697e+01 9.936808e+00
## 522 -2.104442222 11.542303914 1.251894e+01 1.374457e+01 -1.963787e+00
## 523 -1.215058757 0.767851677 1.697968e+00 4.263890e+00 -1.098429e+00

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## 524	-1.215058757	0.767851677	1.697968e+00	5.263890e+00	-1.098429e+00
## 525	-1.981000721	-4.241215951	-3.044981e+00	1.632655e+00	-1.728245e+00
## 526	0.470943416	0.911888384	2.114181e+00	5.112266e+00	-2.390735e-01
## 527	-2.286408034	-5.078672602	-3.880153e+00	2.382114e-01	-2.032766e+00
## 528	-2.346309376	0.736443019	1.557285e+00	4.753167e+00	-2.292016e+00
## 529	-2.456925912	-1.038009218	-2.636824e-01	1.272483e+00	-2.426658e+00
## 530	-2.456925912	-1.038009218	-2.636824e-01	2.724835e-01	-2.426658e+00
## 531	-2.456925912	0.961990782	1.736318e+00	5.272483e+00	-2.426658e+00
## 532	-2.456925912	0.961990782	1.736318e+00	4.272483e+00	-2.426658e+00
## 533	-2.567542448	0.187538545	9.153498e-01	2.791800e+00	-2.561300e+00
## 534	-2.262135134	-0.975004804	-2.494786e-01	2.186243e+00	-2.256778e+00
## 535	-2.151518599	-1.200552567	-4.285108e-01	1.666927e+00	-2.122137e+00
## 536	-2.678158983	-1.586913692	-9.056179e-01	-2.688883e+00	-1.695941e+00
## 537	-2.567542448	-0.812461455	-8.465015e-02	-1.208200e+00	-1.561300e+00
## 538	-2.470147059	-1.280959248	-5.775483e-01	-7.513201e-01	-1.476360e+00
## 539	-2.275356281	-0.217954834	4.366555e-01	1.162440e+00	-1.306481e+00
## 540	-2.164739746	0.556497403	1.257623e+00	1.643123e+00	-1.171839e+00
## 541	-1.736974472	3.408652244	5.215133e+00	7.898425e+00	-7.701737e-01
## 542	-1.834369861	1.877150037	2.708032e+00	6.441545e+00	-1.855113e+00
## 543	-1.847591007	2.634200007	3.394166e+00	5.417741e+00	-9.048155e-01
## 544	-1.958207543	2.859747770	3.573198e+00	3.937058e+00	-1.039457e+00
## 545	-0.944986396	0.102697800	8.870638e-01	1.960862e+00	-9.897552e-01
## 546	-1.376474502	-2.383845576	-1.679375e+00	-1.092493e+00	-1.416232e+00
## 547	-1.567542448	-0.812461455	-8.465015e-02	-2.082000e-01	-1.561300e+00
## 548	-1.250393709	-0.734758852	5.189220e-02	5.664183e-01	-1.294276e+00
## 549	-1.139777174	0.039693385	8.728600e-01	2.047102e+00	-1.159635e+00
## 550	-2.061536146	1.316943250	2.072742e+00	2.117570e+00	-2.046439e+00
## 551	-1.964140758	1.848445458	2.579844e+00	4.574450e+00	-1.961500e+00
## 552	-2.061536146	4.316943250	5.072742e+00	8.117570e+00	-2.046439e+00
## 553	-2.061536146	1.316943250	2.072742e+00	4.117570e+00	-2.046439e+00
## 554	-2.158931535	1.785441043	2.565641e+00	2.660690e+00	-2.131379e+00
## 555	-2.145710388	-0.971608927	-1.204936e-01	1.684494e+00	-2.081677e+00
## 556	-2.366943460	-3.520513401	-2.762429e+00	-3.276873e+00	-2.350961e+00
## 557	-2.769746162	-7.889472260	-7.104703e+00	-9.128196e+00	-2.740422e+00
## 558	-2.366943460	-6.520513401	-5.762429e+00	-5.276873e+00	-2.350961e+00
## 559	-2.243105777	0.496888866	1.372405e+00	2.227614e+00	-2.166617e+00
## 560	-2.158931535	0.785441043	1.565641e+00	1.660690e+00	-2.131379e+00
## 561	-1.756128833	2.154399902	2.907914e+00	2.512014e+00	-1.741918e+00
## 562	-1.353326131	3.523358761	4.250188e+00	4.363337e+00	-1.352457e+00
## 563	-1.574559202	11.974454286	1.260825e+01	1.240197e+01	-1.621741e+00
## 564	-2.243105777	6.496888866	7.372405e+00	9.227614e+00	-2.166617e+00
## 565	-2.145710388	6.028391073	6.879506e+00	8.684494e+00	-2.081677e+00
## 566	-2.035093853	1.802843310	2.700474e+00	4.165177e+00	-1.947035e+00
## 567	-2.035093853	-0.197156690	7.004742e-01	2.165177e+00	-1.947035e+00
## 568	-2.924873499	-5.223626584	-4.177309e+00	-3.970545e+00	-2.761194e+00
## 569	-2.938094645	-6.466576614	-5.491175e+00	-5.994349e+00	-2.810897e+00
## 570	-2.840699257	-6.935074407	-5.984073e+00	-5.537469e+00	-2.725957e+00
## 571	-2.340501166	-6.034613341	-5.134697e+00	-5.229266e+00	-2.251556e+00
## 572	-2.145710388	-1.971608927	-1.120494e+00	-3.155060e-01	-2.081677e+00
## 573	18.062301536	17.334345518	1.820758e+01	1.962206e+01	-1.862095e+00
## 574	18.257092314	18.397349932	1.922178e+01	2.153582e+01	1.830778e+01
## 575	18.243871167	17.154399902	1.790791e+01	2.051201e+01	1.825808e+01
## 576	18.451883091	16.460354346	1.723598e+01	1.944958e+01	1.847766e+01
## 577	19.049080389	14.091395488	1.489371e+01	1.659825e+01	1.908820e+01

## 578	-5.132427000	-11.722237436	-1.102765e+01	-8.948289e+00	-2.659335e+00
## 579	-1.112399485	1.568317652	2.462870e+00	1.449724e+00	-1.463511e-01
## 580	-1.028225243	1.856869829	2.656106e+00	8.828007e-01	-1.111136e-01
## 581	-0.820213318	2.162824274	2.984176e+00	8.203640e-01	1.084680e-01
## 582	-1.632835477	1.211822298	1.992531e+00	7.278875e-01	-7.308952e-01
## 583	-1.426303274	3.515072664	4.308106e+00	4.021822e+00	-1.598514e+00
## 584	-2.886837925	19.343461688	2.040033e+01	2.078503e+01	-1.923808e+00
## 585	-1.789442536	9.874963895	1.090743e+01	1.324191e+01	-1.838868e+00
## 586	-1.678826000	6.649416132	8.728398e+00	9.722593e+00	-1.704226e+00
## 587	-1.692047147	5.406466102	6.414532e+00	6.698790e+00	-1.753929e+00
## 588	-2.203986663	-0.734240915	2.637857e-01	1.010412e+00	-2.190831e+00
## 589	-2.924728153	-13.804078272	-1.224296e+01	-1.080321e+01	-2.698299e+00
## 590	-3.288557086	-8.823715224	-7.628201e+00	-8.039071e+00	-3.174870e+00
## 591	-2.803823252	-8.797888645	-7.689125e+00	-5.909095e+00	-2.687783e+00
## 592	-2.580347071	-6.617299714	-5.450756e+00	-3.793304e+00	-2.480888e+00
## 593	-2.203986663	-3.734240915	-2.736214e+00	-1.989588e+00	-2.190831e+00
## 594	-1.801183961	2.634717943	3.606059e+00	4.861735e+00	-1.801370e+00
## 595	-1.801183961	0.634717943	2.606059e+00	1.861735e+00	-1.801370e+00
## 596	-1.814405108	-1.608232087	-7.078067e-01	-1.620687e-01	-1.851072e+00
## 597	-1.911800496	-1.139734294	-2.149086e-01	-6.189486e-01	-1.936012e+00
## 598	-1.911800496	-3.139734294	-2.214909e+00	-2.618949e+00	-1.936012e+00
## 599	-2.398777440	-5.797245330	-4.750418e+00	-5.903348e+00	-2.360711e+00
## 600	-2.011438995	-2.302920958	-1.318444e+00	-1.230253e+00	-1.958563e+00
## 601	-1.911800496	-3.139734294	-2.214909e+00	-3.618949e+00	-1.936012e+00
## 602	-1.898579350	-0.896784264	9.895733e-02	-5.951451e-01	-1.886310e+00
## 603	-1.703788572	-1.833779849	-8.868389e-01	-1.681385e+00	-1.716431e+00
## 604	-1.593172036	-3.059327612	-2.065871e+00	-1.200702e+00	-1.581789e+00
## 605	-2.885358203	0.346165766	1.412823e+00	2.428658e+00	-1.836608e+00
## 606	-2.593172036	-3.059327612	-2.065871e+00	-1.200702e+00	-1.581789e+00
## 607	-1.885358203	-0.653834234	4.128232e-01	4.286585e-01	-1.836608e+00
## 608	-2.690567425	-6.590829819	-5.572973e+00	-3.657582e+00	-1.666728e+00
## 609	-1.703788572	-4.833779849	-3.886839e+00	-3.681385e+00	-1.716431e+00
## 610	-1.074215766	-4.705536336	-3.608027e+00	-4.122494e+00	-1.084445e+00
## 611	-0.587238822	-1.048025300	-7.251752e-02	-8.380941e-01	-6.597464e-01
## 612	-1.982753591	-1.185336441	-9.427867e-02	-2.822143e-02	-1.921547e+00
## 613	-0.405669191	0.772029084	1.627820e+00	2.051862e+00	-5.395692e-01
## 614	-1.508997794	1.229224565	2.127365e+00	2.232374e+00	-1.546551e+00
## 615	-1.593172036	1.940672388	2.934129e+00	3.799298e+00	-1.581789e+00
## 616	-1.690567425	7.409170181	8.427027e+00	8.342418e+00	-1.666728e+00
## 617	-1.982753591	6.814663559	7.905721e+00	7.971779e+00	-1.921547e+00
## 618	-1.911800496	0.860265706	1.785091e+00	-6.189486e-01	-9.360121e-01
## 619	-1.995974738	-1.428286471	-4.081446e-01	-1.052025e+00	-9.712496e-01
## 620	-2.190765516	-3.491290885	-2.422348e+00	-1.965785e+00	-1.141129e+00
## 621	-2.664521313	-5.905851891	-4.643992e+00	-4.226381e+00	-1.516125e+00
## 622	-2.761916702	-3.437354098	-2.151094e+00	-6.832605e-01	-1.601065e+00
## 623	-1.665604853	2.892366162	4.042264e+00	4.746397e+00	-6.545243e-01
## 624	-1.678826000	3.649416132	4.728398e+00	4.722593e+00	-7.042265e-01
## 625	-1.692047147	4.406466102	5.414532e+00	4.698790e+00	-7.539287e-01
## 626	-1.678826000	1.649416132	2.728398e+00	2.722593e+00	-7.042265e-01
## 627	-2.081628702	0.280457274	1.386124e+00	8.712702e-01	-1.093687e+00
## 628	-2.165802944	1.991905097	3.192888e+00	4.438194e+00	-1.128925e+00
## 629	-2.165802944	-0.008094903	1.192888e+00	2.438194e+00	-2.128925e+00
## 630	-2.165802944	-0.008094903	1.192888e+00	2.438194e+00	-1.128925e+00
## 631	-1.971012166	-0.945090489	2.070921e-01	2.351954e+00	-9.590456e-01

## 632	-1.971012166	-0.945090489	2.070921e-01	2.351954e+00	-9.590456e-01
## 633	-2.373814868	-1.314049348	-1.351814e-01	5.006305e-01	-1.348506e+00
## 634	-2.385556293	-0.554295300	5.634478e-01	1.120455e+00	-1.311008e+00
## 635	-1.179024091	-0.251044933	8.790224e-01	1.414390e+00	-1.178627e+00
## 636	-2.094849849	0.037507244	1.072258e+00	1.847467e+00	-1.143390e+00
## 637	-2.094849849	0.037507244	1.072258e+00	2.847467e+00	-1.143390e+00
## 638	-2.081628702	5.280457274	6.386124e+00	7.871270e+00	-1.093687e+00
## 639	-2.081628702	-0.719542726	3.861243e-01	1.871270e+00	-1.093687e+00
## 640	-2.198178452	-2.505297276	-1.428197e+00	-9.720211e-01	-2.150372e+00
## 641	-1.094849849	-0.962492756	7.225838e-02	-1.525334e-01	-1.143390e+00
## 642	-1.205466385	-0.736944993	2.512906e-01	-6.332168e-01	-1.278031e+00
## 643	-1.679222182	-0.151505999	1.029647e+00	1.061873e-01	-1.653028e+00
## 644	-1.094849849	0.037507244	1.072258e+00	8.474666e-01	-1.433896e-01
## 645	-2.003387675	-0.442292861	5.860067e-01	-5.826127e-02	-9.804922e-01
## 646	22.996612325	23.557707139	2.458601e+01	2.394174e+01	-9.804922e-01
## 647	22.996612325	32.557707139	3.358601e+01	3.294174e+01	2.401951e+01
## 648	22.717647306	26.206150547	2.737857e+01	2.859490e+01	2.381439e+01
## 649	23.105749139	26.329455298	2.739448e+01	2.777879e+01	2.406695e+01
## 650	23.216365675	26.103907535	2.721545e+01	2.825948e+01	2.420159e+01
## 651	-6.034867409	-7.296009171	-6.313032e+00	-5.787922e+00	-4.254066e+00
## 652	-1.748120844	-7.498269879	-5.987585e+00	-4.551469e+00	-1.708991e+00
## 653	-1.469155825	-6.146713288	-4.780146e+00	-4.204633e+00	-1.503874e+00
## 654	-1.274365047	-4.083708873	-2.765942e+00	-3.290873e+00	-1.333994e+00
## 655	-1.274365047	-2.083708873	-7.659418e-01	-1.290873e+00	-1.333994e+00
## 656	-2.182902873	-2.563508978	-1.252193e+00	-1.966014e-01	-2.171097e+00
## 657	-2.001333242	2.256545406	3.448144e+00	3.693355e+00	-2.050920e+00
## 658	-1.903937853	0.788047613	1.955246e+00	1.150235e+00	-1.965980e+00
## 659	-1.890716706	0.030997643	1.269112e+00	1.174038e+00	-1.916278e+00
## 660	-2.085507484	-0.032006771	1.254908e+00	1.260279e+00	-1.086157e+00
## 661	-2.196124020	-0.806459008	4.339406e-01	7.795951e-01	-1.220799e+00
## 662	-2.488310186	-2.400965630	-1.087365e+00	-1.591045e+00	-1.475618e+00
## 663	-2.182902873	-3.563508978	-2.252193e+00	-1.196601e+00	-1.171097e+00
## 664	-2.182902873	-2.563508978	-1.252193e+00	-1.966014e-01	-1.710969e-01
## 665	-1.073766059	-1.791760819	-4.437208e-01	6.404536e-01	-1.236553e-01
## 666	-1.086987206	-1.034710849	2.424133e-01	6.166501e-01	-1.733575e-01
## 667	-0.976370670	-1.260258612	6.338109e-02	9.733350e-02	-3.871559e-02
## 668	-0.892196428	0.028293565	1.256617e+00	5.304098e-01	-3.478070e-03
## 669	-0.783059615	1.800041724	3.065090e+00	4.367465e+00	4.396353e-02
## 670	-1.997004753	1.482784968	2.743666e+00	3.067294e+00	-1.097660e+00
## 671	-1.997004753	5.482784968	6.743666e+00	6.067294e+00	-1.097660e+00
## 672	-1.886388218	4.257237205	5.564634e+00	5.547977e+00	-1.963018e+00
## 673	-1.886388218	3.257237205	4.564634e+00	3.547977e+00	-9.630185e-01
## 674	-2.302412067	-3.354671684	-2.091505e+00	-2.327150e+00	-1.402182e+00
## 675	-2.289190920	-0.111721654	1.222361e+00	6.966540e-01	-1.352479e+00
## 676	-2.568155939	-3.463278245	-1.985079e+00	-1.650182e+00	-1.557596e+00
## 677	-2.677292753	-5.235026404	-3.793552e+00	-1.487237e+00	-2.605038e+00
## 678	-2.262748626	-4.625821594	-3.149907e+00	-2.557389e-01	-1.253075e+00
## 679	-1.899609365	8.014287175	9.250768e+00	9.524174e+00	-1.012721e+00
## 680	-2.178574384	4.662730583	6.043329e+00	6.177337e+00	-1.217838e+00
## 681	-2.081178995	2.194232790	3.550430e+00	4.634217e+00	-1.132898e+00
## 682	-2.314153492	-0.594917636	6.071241e-01	2.926754e-01	-1.364683e+00
## 683	-2.107621289	-1.291667270	-7.730130e-02	-1.413390e+00	-1.232302e+00
## 684	-2.873563253	-1.300734897	1.797494e-01	-4.462536e-02	-1.862118e+00
## 685	-2.665551328	-4.994780453	-3.492181e+00	-2.107062e+00	-1.642536e+00

## 686	-2.483981697	-4.174726068	-2.791843e+00	-2.217106e+00	-1.522359e+00
## 687	-2.094400142	-0.048717240	1.236565e+00	-3.895862e-01	-1.182600e+00
## 688	-1.886388218	4.257237205	5.564634e+00	5.547977e+00	-9.630185e-01
## 689	-2.373365162	5.599726169	7.029125e+00	7.263578e+00	-1.387717e+00
## 690	-2.094400142	2.951282760	4.236565e+00	3.610414e+00	-1.182600e+00
## 691	-1.997004753	4.482784968	5.743666e+00	8.067294e+00	-2.097660e+00
## 692	10.029437540	13.968685028	1.371398e+00	1.149008e-01	-9.982560e-01
## 693	6.529239449	8.068223962	-4.779771e-01	-2.193302e+00	9.527343e+00
## 694	-1.860342106	-2.057784867	-3.506385e+00	-4.020822e+00	6.187585e+00
## 695	-4.373365162	-2.400273831	2.912480e-02	-1.736422e+00	-1.387717e+00
## 696	-5.009142360	-1.558383116	-1.256455e+00	-3.929287e+00	-5.008964e+00
## 697	-17.317878108	-15.012267201	-1.404771e+01	-1.354867e+01	-1.729970e+01
## 698	-10.421534688	-7.663578763	-7.001676e+00	-6.766122e+00	-1.148176e+01
## 699	7.359015455	11.367180337	1.232863e+00	8.585419e-01	-2.139663e+00
## 700	11.344468173	13.197061847	2.596844e+00	2.080136e+00	9.212739e+00
## 701	9.574230448	10.216525337	1.770381e+00	6.648299e-01	1.067004e+01
## 702	19.388970712	20.016853097	6.731224e-01	-4.333101e-01	8.565436e+00
## 703	17.478953165	18.534348914	2.017438e+01	2.001733e+01	1.864113e+01
## 704	8.949437764	8.626631431	1.033169e+01	1.017316e+01	7.784113e+00
## 705	10.588349234	12.027325659	1.085708e+01	1.115579e+01	8.911879e+00
## 706	12.255383359	14.247416322	1.286843e+01	1.309665e+01	1.232917e+01
## 707	1.010994068	2.747771317	4.830139e-01	7.231769e-01	4.609956e-02
## 708	53.783783425	59.157055015	7.473225e-01	-4.667050e-01	3.731953e+00
## 709	66.275441736	71.868377860	-1.479832e+00	-1.702071e+00	5.143828e+01
## 710	24.249276686	24.661616422	-3.326136e+00	-3.565330e+00	6.444590e+01
## 711	-2.337658909	0.268117154	-2.694986e+00	-2.977461e+00	2.471066e+01
## 712	-9.708178380	-6.131227325	-4.889503e+00	-5.173741e+00	-4.498554e+00
## 713	-66.722324148	-66.389557109	-6.043204e+01	-6.003159e+01	-6.452127e+01
## 714	-70.285226585	-65.996574631	-6.093315e+01	-6.228763e+01	-7.260598e+01
## 715	-22.433304206	-13.391341091	-1.089452e+01	-1.267876e+01	-2.219630e+01
## 716	-1.829999425	4.041959353	5.542590e+00	3.703931e+00	-7.629667e-01
## 717	-1.548780203	0.438642973	2.225431e+00	1.003542e+00	-1.862143e+00
## 718	-1.883250701	2.936964352	-1.264022e+00	-2.407564e+00	-4.685342e+00
## 719	-10.142515252	-3.841306184	-4.738968e+00	-5.957405e+00	-5.791090e+00
## 720	-5.829317221	-1.443205690	-4.678324e-01	-7.420945e-01	-5.995663e+00
## 721	-2.851228072	1.606594477	1.415249e+00	1.896356e+00	-2.992264e+00
## 722	-3.402114695	0.110761069	7.514625e-01	1.269400e+00	-3.341484e+00
## 723	-6.164023857	-5.730008722	-3.389122e+00	-3.789567e+00	-6.799082e+00
## 724	1.127901707	0.564513646	1.663697e+00	1.229949e+00	-1.031429e+00
## 725	-1.671423668	-0.595104675	1.146305e+00	8.322415e-02	4.002531e-01
## 726	-2.740133653	-2.009022366	8.633679e-01	-1.716246e-01	-1.647671e+00
## 727	-2.671423668	-0.595104675	1.146305e+00	8.322415e-02	-2.599747e+00
## 728	-4.608646897	-2.192489297	4.358880e-01	-2.453486e-02	-3.473865e+00
## 729	12.296075820	15.125334280	-1.160117e+00	-1.672031e+00	-6.502776e+00
## 730	4.010949710	6.717261802	1.382612e+00	1.857270e+00	1.492328e+01
## 731	-1.216854959	0.310433309	1.848721e+00	2.367540e+00	4.763125e+00
## 732	-2.492097147	-0.406734748	1.250209e+00	8.187564e-01	-1.417181e+00
## 733	-3.306837412	-1.207062508	2.347467e+00	1.916896e+00	-1.312572e+00
## 734	-25.033304586	-24.304085431	-1.881601e+01	-1.924170e+01	-2.443251e+01
## 735	-9.181952184	-6.120386071	-5.712236e-01	-2.058080e+00	-8.901219e+00
## 736	0.726461985	1.155811029	2.823942e+00	1.552326e+00	-4.681838e+00
## 737	-3.285564945	-1.103484382	1.565784e+00	2.112691e+00	7.152005e-01
## 738	-1.121577677	-0.007390268	3.444726e+00	4.015036e+00	-1.207964e+00
## 739	-2.651191832	-0.399645550	1.999255e+00	2.583876e+00	-2.529411e+00

## 740	3.740600106	5.103277056	3.412088e+00	3.975950e+00	-1.292421e+00
## 741	-6.254810803	-3.370499128	-1.823904e+00	-1.298987e+00	-1.851996e+00
## 742	-0.797857340	0.928236354	3.473223e+00	3.318018e+00	-1.050070e+00
## 743	-1.555276165	0.129152579	2.493862e+00	2.397127e+00	-1.531671e+00
## 744	-1.623986150	0.715234889	2.210925e+00	2.142278e+00	-1.579595e+00
## 745	-7.481574842	-6.869208620	-2.992429e+00	-3.093573e+00	-7.054714e+00
## 746	-1.776584873	-0.968185520	2.691540e+00	2.513812e+00	-2.022297e+00
## 747	-2.534003698	-2.767269295	1.712178e+00	1.592922e+00	-2.503898e+00
## 748	15.465996302	18.232730705	1.712178e+00	1.592922e+00	-2.503898e+00
## 749	-3.602713683	-2.181186985	1.429242e+00	1.338073e+00	1.544818e+01
## 750	-3.465293712	-1.353351604	1.995115e+00	1.847771e+00	-3.455974e+00
## 751	-3.465293712	-1.353351604	1.995115e+00	1.847771e+00	-3.455974e+00
## 752	-3.396583727	-0.939433914	2.278052e+00	2.102619e+00	-3.408050e+00
## 753	-23.937388919	-23.775287302	-1.832141e+01	-1.842845e+01	-2.343478e+01
## 754	1.368835684	5.890909538	8.489778e+00	7.981889e+00	9.835734e-01
## 755	-2.555276165	-0.870847421	2.493862e+00	2.397127e+00	-2.531671e+00
## 756	-1.555276165	0.129152579	2.493862e+00	2.397127e+00	-2.531671e+00
## 757	-0.555276165	1.129152579	2.493862e+00	2.397127e+00	-1.531671e+00
## 758	-0.671825915	2.343398030	1.679541e+00	1.553836e+00	-1.588355e+00
## 759	4.582546052	7.018485255	2.526500e+00	2.436213e+00	5.527859e-01
## 760	-0.555276165	2.129152579	2.493862e+00	2.397127e+00	4.468329e+00
## 761	0.259464100	1.929480339	1.396604e+00	1.298987e+00	-1.636280e+00
## 762	5.280736567	6.033058466	6.149202e-01	4.947817e-01	-6.085068e-01
## 763	1.233299049	1.722718902	5.502998e-01	-5.642723e-01	4.371342e+00
## 764	-8.301207690	-6.772719692	-3.523158e+00	-4.662898e+00	-3.914711e+00
## 765	-2.548780203	0.438642973	3.225431e+00	2.003542e+00	-1.862143e+00
## 766	-5.883250701	-3.063035648	-1.264022e+00	-1.407564e+00	-5.685342e+00
## 767	-11.513034723	-9.240650664	-6.933485e+00	-7.153685e+00	-1.200031e+01
## 768	-2.636131169	-1.165264026	-1.151460e+00	-1.817004e+00	-6.794567e+00
## 769	18.395328712	25.206178017	2.789596e+00	2.243108e+00	2.151026e+00
## 770	1.685749652	5.778931102	4.341619e+00	2.910660e+00	1.867819e+01
## 771	3.397286317	5.818813015	2.429242e+00	1.338073e+00	1.448177e+00
## 772	2.280736567	6.033058466	1.614920e+00	4.947817e-01	2.391493e+00
## 773	-2.103129055	0.608405284	-2.578798e+00	-3.070343e+00	-1.749009e+00
## 774	-20.653415921	-19.856855232	-2.057025e+01	-2.099394e+01	-1.918077e+01
## 775	2.991180520	5.756697290	3.070841e+00	2.963721e+00	1.872139e+00
## 776	-3.806212153	-1.509351239	-3.295207e+00	-3.796376e+00	-2.552322e+00
## 777	-3.461857733	-1.316768196	-2.946994e+00	-3.463355e+00	-3.335484e+00
## 778	-5.393147747	-1.902850506	-2.664057e+00	-3.208506e+00	-3.287559e+00
## 779	-5.393147747	-1.902850506	-2.664057e+00	-3.208506e+00	-5.287559e+00
## 780	-2.393147747	1.097149494	-2.664057e+00	-3.208506e+00	-5.287559e+00
## 781	-1.207888012	2.296821734	-1.566799e+00	-2.110366e+00	-1.182951e+00
## 782	2.585579785	4.993571368	-1.882374e+00	-2.404301e+00	-1.315332e+00
## 783	3.887389271	6.978998157	1.029206e+00	5.371306e-01	4.845961e+00
## 784	1.474324866	-0.627502576	1.398057e+00	9.492609e-01	3.581198e+00
## 785	-2.081454340	-5.226519295	-1.893718e+00	-1.345159e+00	2.673725e-01
## 786	-1.461857733	-4.316768196	1.053006e+00	1.536645e+00	6.645164e-01
## 787	-6.134186689	-8.701539465	-7.053090e+00	-6.601066e+00	-5.705993e+00
## 788	-4.220193532	-6.820367968	-5.200636e+00	-4.784067e+00	-3.156799e+00
## 789	-1.741341741	-1.772269919	1.868825e+00	2.190492e+00	1.226426e-01
## 790	-0.783248292	-2.132804465	3.330794e+00	2.964657e+00	2.035925e+00
## 791	-0.840619099	0.632026501	3.188246e+01	3.156059e+01	2.996189e+01
## 792	-1.138941890	-0.504136164	7.147975e+00	6.780849e+00	7.845193e+00
## 793	-4.932409687	-4.200885798	3.463550e+00	3.074784e+00	3.977575e+00



## 794	-5.909329084	-4.781891189	-2.400473e+00	-2.694254e+00	-3.086030e+00
## 795	-6.572789848	-6.664811832	-3.524873e+00	-3.896858e+00	-4.867043e+00
## 796	-1.827894835	-2.825505632	-1.038384e+00	-1.290130e+00	-3.775853e-01
## 797	-6.585758217	-6.143483082	-3.093960e+00	-3.451071e+00	-3.316665e+00
## 798	-3.556106471	-3.087457521	-1.070565e+00	-1.426126e+00	-1.279695e+00
## 799	-3.741855121	-3.836532952	-3.344440e+00	-2.630223e+00	-1.964603e+00
## 800	-3.782281950	-4.194363421	-3.869976e+00	-4.212429e+00	-3.964120e+00
## 801	-3.397902948	-2.705447205	-2.462992e+00	-2.826590e+00	-2.736373e+00
## 802	-0.459199997	-0.105358505	7.259920e+00	6.924797e+00	7.224945e+00
## 803	-0.629633860	-0.277017965	3.174359e+00	2.839130e+00	3.138822e+00
## 804	-0.889411791	-1.119551535	2.486147e+00	1.468574e+00	1.945830e+00
## 805	-1.094464272	-0.420097823	-8.169326e-01	-1.181733e+00	-1.099351e+00
## 806	-0.985327458	-1.648349664	-1.008460e+00	-1.344678e+00	-2.051910e+00
## 807	-2.755225738	-2.376701497	-4.380291e+00	-4.713824e+00	-4.402833e+00
## 808	-2.459199997	-3.105358505	-3.740080e+00	-4.075203e+00	-3.775055e+00
## 809	-2.568336811	-1.877106664	-3.548553e+00	-3.912258e+00	-3.822496e+00
## 810	-2.170587193	-2.848021903	-1.057181e-01	-4.428179e-01	-1.565183e-01
## 811	-2.308409411	-2.737354579	8.616442e-01	5.180961e-01	-1.240975e+00
## 812	-1.341021056	-2.019681363	1.808721e+00	1.471515e+00	-2.426416e-01
## 813	-0.272311071	-0.605763672	1.109166e+01	1.072636e+01	8.805283e+00
## 814	-2.341021056	-2.019681363	-1.912789e-01	-5.284854e-01	-2.426416e-01
## 815	-2.746183610	-2.062772514	-1.639962e+00	-2.004162e+00	-1.917862e+00
## 816	-2.981401216	-2.483607397	-2.179702e+00	-2.500128e+00	-1.087259e+00
## 817	-3.981401216	-3.483607397	-1.179702e+00	-1.500128e+00	-1.087259e+00
## 818	-3.566039761	-3.012286991	-1.454275e+00	-1.771134e+00	-2.333574e+00
## 819	-2.807480659	-1.462683814	8.294952e-02	-2.527741e-01	-9.565438e-01
## 820	-2.985327458	-2.648349664	-1.008460e+00	-1.344678e+00	-2.051910e+00
## 821	-2.778795255	-3.345099297	-6.928854e-01	-1.050743e+00	-2.919528e+00
## 822	-1.622220924	-2.263011574	-1.819792e+00	-2.154634e+00	-3.851935e+00
## 823	-2.828753126	-2.566261940	-4.135367e+00	-4.448569e+00	-3.984317e+00
## 824	-0.897463111	-0.980179631	1.581696e+00	1.296582e+00	1.967759e+00
## 825	-2.006599925	-0.751927790	-2.267763e-01	-5.404726e-01	-7.968257e-02
## 826	-2.144422143	-1.641260466	-2.259414e+00	-2.579559e+00	-3.164140e+00
## 827	-2.500115741	-2.012592165	-3.442233e+00	-3.763366e+00	-3.354871e+00
## 828	-0.326195183	0.008331418	-1.795815e-01	-5.160128e-01	-1.224156e+00
## 829	-1.629633860	-1.277017965	1.174359e+00	8.391297e-01	-8.611779e-01
## 830	-0.868777708	-0.862595114	3.805861e+00	3.498613e+00	2.004774e+00
## 831	-1.362293523	-1.123259489	6.590405e+00	6.275720e+00	3.729586e+00
## 832	-1.333608120	-2.005674973	3.814570e+00	3.477751e+00	2.766601e+00
## 833	-0.369706460	-1.137265879	1.258456e+01	1.226948e+01	9.720343e+00
## 834	-1.042698265	-0.883518697	5.432099e-01	2.512600e-01	1.874059e+00
## 835	0.312995333	1.487813002	1.172603e+01	1.143507e+01	1.106479e+01
## 836	1.640003527	1.741560185	1.768468e+01	1.741684e+01	1.621851e+01
## 837	2.588237521	2.204981059	2.132454e+01	2.098385e+01	1.924510e+01
## 838	0.583121635	1.055794342	7.412969e+00	7.118739e+00	6.724777e+00
## 839	0.391638607	0.826560162	7.392675e+00	7.034924e+00	4.166595e+00
## 840	0.680919271	0.648793844	6.386835e+00	6.105007e+00	4.798325e+00
## 841	-0.575081888	-1.326215974	8.053962e-01	5.192037e-01	-8.185454e-01
## 842	-3.158091241	-2.554972975	-5.734697e+00	-6.048376e+00	-6.589132e+00
## 843	-1.969170877	-1.693958254	3.298286e+00	2.986005e+00	3.455543e+00
## 844	-1.560082081	-1.486124836	3.575727e+00	3.306231e+00	4.095414e+00
## 845	-1.353549878	-2.182874470	4.891302e+00	4.600166e+00	4.227795e+00
## 846	-0.988814153	-2.497613787	4.814449e+00	4.493636e+00	3.903499e+00
## 847	0.452446741	0.677068271	2.493147e+00	2.177580e+00	6.249771e-01

## 848	-1.110919336	0.251966804	-5.631100e-01	-8.976316e-01	-1.593565e+00
## 849	-2.118332272	-1.762039587	-1.568959e+00	-1.903868e+00	-2.602808e+00
## 850	-2.078307690	-2.465706413	4.898130e-01	1.489498e-01	-1.591899e+00
## 851	-2.187444504	-3.237454572	1.681340e+00	1.311895e+00	-6.393405e-01
## 852	-3.242783873	-5.111203717	-5.657457e-01	-8.593527e-01	-2.249034e+00
## 853	-2.275395518	-4.393530501	-6.186687e-01	-9.059341e-01	-2.250701e+00
## 854	-3.206685533	-3.979612810	-1.335732e+00	-1.651085e+00	-3.202776e+00
## 855	-1.988814153	-3.497613787	1.381445e+01	1.349364e+01	1.290350e+01
## 856	-27.742257368	-27.898030247	-1.981120e+01	-2.015961e+01	-2.295321e+01
## 857	-27.920104167	-30.083696097	-2.090261e+01	-2.125152e+01	-2.304858e+01
## 858	-29.097950966	-30.269361946	-2.699402e+01	-2.734342e+01	-2.914394e+01
## 859	-28.159248015	-28.669273246	-2.827111e+01	-2.859203e+01	-3.018262e+01
## 860	-27.401563578	-27.366789686	-2.839872e+01	-2.876283e+01	-3.067644e+01
## 861	-3.113376015	-3.508368758	-5.892012e+00	-6.178636e+00	-6.511746e+00
## 862	-2.947270641	-2.562948861	-2.101973e+00	-2.466908e+00	-4.378882e+00
## 863	-2.897801685	-2.891189409	-8.361086e-01	-1.175039e+00	-2.894394e+00
## 864	-3.322205268	-2.676438798	3.698136e+00	3.386305e+00	8.669503e-01
## 865	-2.314792332	-2.662432408	7.039844e-01	3.925411e-01	-1.123807e+00
## 866	-1.463953727	-2.730513741	5.836740e+00	5.502668e+00	3.817842e+00
## 867	-1.136945533	-1.476766559	7.953939e-01	4.844449e-01	-1.028441e+00
## 868	-0.959098734	-2.291100709	-1.113197e+00	-1.423651e+00	-2.933075e+00
## 869	-0.345106927	-2.079939518	7.453393e-01	4.870838e-01	-6.365513e-01
## 870	-1.781251935	-1.105434859	-3.021787e+00	-3.331748e+00	-3.837709e+00
## 871	-2.008567690	-1.962860161	-4.379061e+00	-4.715520e+00	-5.417564e+00
## 872	-2.966511670	-3.305107099	-5.119045e+00	-5.429888e+00	-4.942318e+00
## 873	-3.253495283	-3.262521108	-4.018927e+00	-4.358846e+00	-5.085125e+00
## 874	-2.897801685	-1.891189409	2.163891e+00	1.824961e+00	1.056065e-01
## 875	-2.354816914	-1.958765582	-3.547873e-01	-6.602766e-01	-2.134716e+00
## 876	-2.463953727	-2.730513741	-1.632600e-01	-4.973315e-01	-2.182158e+00
## 877	-1.257421525	-1.427263375	4.152315e+00	3.796603e+00	1.950224e+00
## 878	-1.286106928	-0.544847892	3.928149e+00	3.594572e+00	2.913208e+00
## 879	-0.494268322	-1.148020851	8.878095e+00	8.597211e+00	7.305098e+00
## 880	-1.027808719	-1.705018400	8.603867e+00	8.321500e+00	7.019000e+00
## 881	-1.959098734	-1.291100709	3.886803e+00	3.576349e+00	1.066925e+00
## 882	-1.432971273	-1.748109551	-8.448170e-01	-1.154176e+00	-2.656220e+00
## 883	-1.295149056	-1.858776875	1.187821e+00	8.849097e-01	-5.717631e-01
## 884	-0.543737278	-0.819780303	2.612230e+00	2.305342e+00	8.206095e-01
## 885	-0.543737278	1.180219697	6.612230e+00	6.305342e+00	5.820609e+00
## 886	0.477046274	1.734394632	7.653930e+00	7.395180e+00	6.268083e+00
## 887	9.855641531	4.509227051	2.978955e+01	2.947821e+01	2.796232e+01
## 888	15.211335129	11.880558750	3.129724e+02	3.126620e+02	3.101530e+02
## 889	10.389181928	5.066224600	3.806377e+01	3.775392e+01	4.024841e+01
## 890	-23.830318644	-27.715697017	-2.182089e+01	-2.109423e+01	-1.933359e+01
## 891	-25.044263783	-29.032953773	-2.814231e+01	-2.839440e+01	-2.947521e+01
## 892	-33.510674598	-35.061610038	-3.912918e+01	-3.957621e+01	-4.009702e+01
## 893	10.549718671	10.352378444	-7.628037e+00	-7.861781e+00	-7.859739e+00
## 894	-31.261771396	-32.363281776	-1.913560e+01	-1.966524e+01	-2.280457e+01
## 895	-5.696525105	-4.116991974	-4.602975e+00	-5.734947e+00	-6.095717e+00
## 896	-9.301271375	-7.483870450	-8.501353e+00	-8.889522e+00	-9.967429e+00
## 897	-2.421747366	0.565632734	4.685557e+01	4.642264e+01	4.301124e+01
## 898	-2.494117981	-2.509627438	-3.363093e+00	-3.768453e+00	-2.976755e+00
## 899	-4.633569389	-2.698882706	-5.130211e+00	-5.510965e+00	-5.536941e+00
## 900	-3.701578645	-2.677759138	-2.506952e+00	-2.851209e+00	-2.609495e+00
## 901	-2.961994960	-2.366914415	-3.093766e+00	-3.387520e+00	-2.771316e+00

## 902	-1.959013553	-2.573416790	-5.661138e+00	-5.862513e+00	-4.571136e+00
## 903	-7.626422066	-7.188276102	-4.017396e+00	-4.413038e+00	-4.552283e+00
## 904	-4.770288631	-5.091676829	-1.789889e+00	-2.106058e+00	-1.657419e+00
## 905	-2.577615959	-1.877998199	3.132183e-01	-1.681697e-03	4.564316e-01
## 906	-1.748049821	-1.049657658	1.227658e+00	9.126508e-01	1.370308e+00
## 907	6.498506963	8.549925882	1.460200e+01	1.525940e+01	1.651360e+01
## 908	6.854200561	6.921257581	2.178482e+01	2.144321e+01	2.170433e+01
## 909	1.854200561	3.921257581	1.278482e+01	1.244321e+01	1.170433e+01
## 910	1.785490576	1.507339891	4.501886e+00	4.188362e+00	4.656406e+00
## 911	1.785490576	0.507339891	2.501886e+00	2.188362e+00	2.656406e+00
## 912	-5.150841036	-5.258251179	-2.560612e+00	-3.549672e+00	-3.858509e+00
## 913	-4.070941342	-4.962803346	-3.165053e+00	-3.503834e+00	-3.225219e+00
## 914	-0.089216029	-1.766520540	6.171042e-01	1.356100e+00	2.113000e-01
## 915	-3.168038248	-3.120761590	-2.232723e+00	-2.575498e+00	-2.323397e+00
## 916	-3.455021861	-4.078175598	-3.132605e+00	-3.504457e+00	-4.466205e+00
## 917	-4.374570451	-4.424011956	-5.548298e+00	-5.869433e+00	-5.455779e+00
## 918	-4.277175062	-3.892509749	-3.041196e+00	-3.412553e+00	-4.370839e+00
## 919	-28.594323800	-26.970212352	-1.017774e+01	-1.118717e+01	-1.063786e+01
## 920	-27.508905974	-26.464080508	-2.640384e+01	-2.674683e+01	-2.649564e+01
## 921	-28.824574990	-27.539079034	-2.752789e+01	-2.787782e+01	-2.867547e+01
## 922	-27.857186635	-26.821405817	-2.558082e+01	-2.592440e+01	-2.567713e+01
## 923	-28.708025240	-26.753324484	-2.771357e+01	-2.803453e+01	-2.661878e+01
## 924	-1.368896967	0.628481001	-1.986603e+00	-2.283410e+00	-1.691284e+00
## 925	-3.384879614	-1.513832052	-2.534716e+00	-2.839538e+00	-2.303262e+00
## 926	-2.583998880	-0.803076028	-8.444414e-01	-1.127237e+00	-4.264002e-01
## 927	-2.199619878	-0.314159812	-4.374574e-01	-7.413980e-01	-1.986530e-01
## 928	-1.232231524	0.403513405	1.509620e+00	1.212021e+00	1.799681e+00
## 929	-1.438763726	0.100263038	1.194045e+00	9.180857e-01	2.667299e+00
## 930	-1.438763726	0.100263038	-1.805955e+00	-2.081914e+00	-3.327007e-01
## 931	-1.260916927	0.285928888	-7.145455e-01	-9.900105e-01	7.626652e-01
## 932	-1.260916927	0.285928888	2.854545e-01	9.989481e-03	7.626652e-01
## 933	-1.083070128	0.471594738	1.376864e+00	1.101893e+00	1.858031e+00
## 934	-0.876537926	0.774845104	2.692438e+00	2.395828e+00	1.990412e+00
## 935	-1.410078323	0.217847555	4.182101e-01	1.201168e-01	-2.956853e-01
## 936	-1.232231524	-0.596486595	-2.490380e+00	-2.787979e+00	-2.200319e+00
## 937	-1.260916927	-0.714071112	-3.714546e+00	-3.990011e+00	-1.237335e+00
## 938	-0.083070128	0.471594738	8.376864e+00	8.101893e+00	8.858031e+00
## 939	-0.111755532	0.354010221	6.152699e+00	5.899862e+00	6.821016e+00
## 940	-1.467449130	-0.017321478	-3.030120e+00	-3.283945e+00	-1.369716e+00
## 941	-1.725747339	-0.857150970	-3.705837e+00	-4.010873e+00	-2.475508e+00
## 942	-1.490529733	-0.436316087	-1.166097e+00	-1.514907e+00	-1.306112e+00
## 943	-0.954692285	-0.014498865	-1.797591e+00	-2.098072e+00	-1.531092e+00
## 944	-1.310385883	-0.385830564	-9.804101e-01	-1.281879e+00	-7.218234e-01
## 945	-1.587925122	-0.967818294	-2.673199e+00	-2.971787e+00	-1.391051e+00
## 946	-1.697061936	-0.739566454	-3.481672e+00	-3.808842e+00	-2.438493e+00
## 947	-1.547900540	-0.671485121	-4.614428e+00	-4.918969e+00	-3.380142e+00
## 948	-1.547900540	-0.671485121	-3.614428e+00	-3.918969e+00	-2.380142e+00
## 949	-0.370053741	0.514180729	6.476982e+00	6.172935e+00	5.715224e+00
## 950	-1.519215136	-0.553900604	-3.390263e+00	-3.716938e+00	-2.343127e+00
## 951	-1.697061936	-0.739566454	-3.481672e+00	-3.808842e+00	-3.438493e+00
## 952	-1.874908735	-0.925232303	-3.573081e+00	-3.900746e+00	-3.533859e+00
## 953	-1.697061936	-0.739566454	-4.481672e+00	-4.808842e+00	-3.438493e+00
## 954	-1.516918086	-0.689080930	-4.295985e+00	-4.575814e+00	-4.854205e+00
## 955	-1.697061936	-0.739566454	-3.481672e+00	-3.808842e+00	-4.438493e+00

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## 956 -1.903594138 -1.042816820 -4.797247e+00 -5.102777e+00 -4.570874e+00
## 957 -1.903594138 -1.042816820 -3.797247e+00 -4.102777e+00 -3.570874e+00
## 958 -1.874908735 -0.925232303 -2.573081e+00 -2.900746e+00 -2.533859e+00
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## 964 -1.702666736 -1.438156361 -2.569860e+00 -2.779911e+00 -1.539113e+00
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## 970 -2.547900540 -0.671485121 -1.614428e+00 -1.918969e+00 -1.380142e+00
## 971 -0.431350790 0.114269429 -8.001063e-01 -1.075678e+00 -1.323458e+00
## 972 -0.637882992 -0.188980938 -2.115681e+00 -2.369613e+00 -1.455839e+00
## 973 -0.431350790 0.114269429 -1.800106e+00 -2.075678e+00 -1.323458e+00
## 974 -0.253503991 0.299935278 -1.708697e+00 -1.983774e+00 -1.228092e+00
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## 990 -1.667534738 -0.245006499 -1.139076e+00 -1.394558e+00 -1.492810e+00
## 991 -0.667534738 -0.245006499 8.609244e-01 6.054420e-01 5.071903e-01
## 992 -0.667534738 -0.245006499 -1.390756e-01 -3.945580e-01 -4.928097e-01
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## 1002 -50.696220141 -50.362591015 -3.536324e+01 -3.559659e+01 -3.652983e+01
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## 1007 1.225578911 3.336961692 7.486015e+00 7.250491e+00 6.306108e+00
## 1008 0.269264122 2.294637347 1.248051e+01 1.223955e+01 1.025708e+01
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## 1010 -85.264276275 -93.262360202 -8.479372e+01 -8.503616e+01 -8.402901e+01
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## 1012 -84.265905466 -87.562282795 -9.752820e+01 -9.773959e+01 -9.950474e+01
## 1013 -89.590616610 -95.951210303 -1.033926e+02 -1.035802e+02 -1.041695e+02
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## 1016 -8.123136299 -5.693089469 -1.784731e+01 -1.822162e+01 -2.118428e+01
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## 1018 -12.613410230 -9.717689528 -1.657236e+01 -1.698384e+01 -2.020608e+01
## 1019 -7.592485033 -7.402001552 -1.353238e+01 -1.371574e+01 -1.525716e+01
## 1020 -8.604628705 -5.703744799 -1.230052e+01 -1.262530e+01 -1.520827e+01
## 1021 -6.461511657 -5.649731517 -1.017313e+01 -1.038937e+01 -1.217060e+01
## 1022 -6.228412157 -5.078222418 -8.544484e+00 -8.702783e+00 -1.005723e+01
## 1023 -7.090992186 -4.250387037 -7.978610e+00 -8.193085e+00 -9.961385e+00
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## 1025 -5.974442436 -3.464632488 -7.164289e+00 -7.349794e+00 -8.904700e+00
## 1026 -4.720472715 -1.851042557 -5.784094e+00 -5.996805e+00 -7.752168e+00
## 1027 -2.418663230 0.134384232 -3.872515e+00 -4.055374e+00 -5.590875e+00
## 1028 -1.302113480 0.920138781 -3.058193e+00 -3.212082e+00 -4.534191e+00
## 1029 -4.302113480 -2.079861219 -2.058193e+00 7.879177e-01 -5.341907e-01
## 1030 -1.302113480 0.920138781 1.941807e+00 7.879177e-01 -5.341907e-01
## 1031 -3.302113480 -1.079861219 -1.058193e+00 7.879177e-01 -5.341907e-01
## 1032 -4.302113480 -2.079861219 -1.058193e+00 7.879177e-01 -5.341907e-01
## 1033 -4.302113480 -2.079861219 -1.058193e+00 7.879177e-01 -5.341907e-01
## 1034 -1.280740474 2.291215738 2.808811e+00 3.613996e+00 2.868219e+00
## 1035 -4.508795152 -2.680330100 -3.095753e+00 1.434185e+00 -5.510058e-02
## 1036 -2.384069077 0.748411218 3.083555e-01 2.794508e+00 8.612369e-01
## 1037 -1.198809342 1.948083458 1.405614e+00 3.892648e+00 1.965845e+00
## 1038 0.801190658 3.948083458 3.405614e+00 2.892648e+00 1.965845e+00
## 1039 0.904519261 4.490887977 4.906069e+00 4.712136e+00 2.972827e+00
## 1040 -0.177411871 3.834020257 3.309266e+00 3.433484e+00 2.875201e+00
## 1041 -0.383944073 3.530769891 2.993692e+00 3.139549e+00 2.742820e+00
## 1042 0.616055927 4.530769891 5.993692e+00 3.139549e+00 2.742820e+00
## 1043 -1.479984744 1.219613089 1.813749e+00 2.981257e+00 8.634975e-01
## 1044 1.594658456 4.644833092 5.090039e+00 3.598713e+00 1.833464e+00
## 1045 2.726672462 6.305222128 6.814660e+00 4.620232e+00 3.877461e+00
## 1046 2.726672462 6.305222128 6.814660e+00 4.620232e+00 3.877461e+00
## 1047 2.787206123 5.076153049 4.507810e+00 4.358049e+00 3.065732e+00
## 1048 2.594658456 5.644833092 6.090039e+00 3.598713e+00 2.833464e+00
## 1049 0.388001249 2.559224053 3.089128e+00 1.959738e+00 8.195001e-01
## 1050 0.594533452 2.862474419 3.404703e+00 2.253673e+00 9.518814e-01
## 1051 -0.405466548 1.862474419 1.404703e+00 2.253673e+00 9.518814e-01
## 1052 -4.590726284 -2.337197820 -1.692555e+00 1.155533e+00 -1.527271e-01
## 1053 -1.508795152 0.319669900 9.042474e-01 1.434185e+00 -5.510058e-02
## 1054 -2.508795152 -0.680330100 -9.575265e-02 1.434185e+00 -5.510058e-02
## 1055 -2.508795152 -0.680330100 -9.575265e-02 1.434185e+00 -5.510058e-02
## 1056 -3.487397680 -0.794393301 -1.192100e+00 1.975020e+00 8.542549e-01
## 1057 -0.095480739 3.490887977 3.906069e+00 4.712136e+00 3.972827e+00
## 1058 -1.405466548 0.862474419 1.404703e+00 2.253673e+00 9.518814e-01
## 1059 1.697862055 4.405278939 4.905158e+00 3.073160e+00 1.958863e+00
## 1060 0.697862055 3.405278939 4.905158e+00 3.073160e+00 1.958863e+00
## 1061 3.822588129 7.834020257 8.309266e+00 4.433484e+00 3.875201e+00
## 1062 3.904519261 7.490887977 7.906069e+00 4.712136e+00 3.972827e+00
## 1063 1.697862055 4.405278939 4.905158e+00 3.073160e+00 1.958863e+00

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## 1064	-0.508795152	1.319669900	2.904247e+00	1.434185e+00	-5.510058e-02
## 1065	0.676464584	2.519342140	3.001506e+00	3.532325e+00	2.049508e+00
## 1066	0.491204848	2.319669900	2.904247e+00	2.434185e+00	9.448994e-01
## 1067	0.491204848	2.319669900	2.904247e+00	2.434185e+00	9.448994e-01
## 1068	0.491204848	2.319669900	2.904247e+00	3.434185e+00	9.448994e-01
## 1069	0.573135981	1.976537620	3.501050e+00	3.712837e+00	2.042526e+00
## 1070	0.587120515	2.848468029	3.398854e+00	3.247436e+00	1.942639e+00
## 1071	-0.516208088	1.305663510	2.898399e+00	3.427949e+00	9.356568e-01
## 1072	-0.516208088	1.305663510	2.898399e+00	3.427949e+00	9.356568e-01
## 1073	0.373175376	2.531211273	4.077431e+00	2.947265e+00	8.010150e-01
## 1074	0.661638711	2.491329359	3.989808e+00	4.519853e+00	2.031023e+00
## 1075	0.579707579	2.834461639	4.393005e+00	4.241200e+00	1.933396e+00
## 1076	0.551022175	2.716877122	4.168840e+00	4.039169e+00	1.896381e+00
## 1077	-0.448977825	1.716877122	4.168840e+00	4.039169e+00	1.896381e+00
## 1078	-1.552306428	0.174072603	1.668385e+00	3.219681e+00	8.893989e-01
## 1079	-2.456390761	-0.297129268	1.162992e+00	2.032933e+00	8.871383e-01
## 1080	-1.456390761	0.702870732	2.162992e+00	2.032933e+00	8.871383e-01
## 1081	-1.456390761	0.702870732	3.162992e+00	2.032933e+00	8.871383e-01
## 1082	-0.271131026	1.902542972	3.260250e+00	3.131073e+00	1.991747e+00
## 1083	-0.353062158	2.245675251	3.663447e+00	2.852421e+00	1.894120e+00
## 1084	1.860882981	4.562932008	6.984870e+00	4.152592e+00	3.035744e+00
## 1085	0.757554378	3.020127488	6.484415e+00	3.333104e+00	2.028762e+00
## 1086	0.839485510	2.676995209	6.081218e+00	3.611756e+00	2.126389e+00
## 1087	3.757554378	5.020127488	4.484415e+00	4.333104e+00	3.028762e+00
## 1088	3.757554378	5.020127488	4.484415e+00	3.333104e+00	2.028762e+00
## 1089	2.736156907	3.134190689	2.580762e+00	2.792269e+00	1.119407e+00
## 1090	2.818088039	2.791058410	2.177565e+00	3.070921e+00	1.217033e+00
## 1091	2.818088039	2.791058410	2.177565e+00	3.070921e+00	1.217033e+00
## 1092	-0.736927779	0.821022069	4.697285e-01	-7.127037e-01	-2.246382e+00
## 1093	0.167156554	0.292223940	-2.487824e-02	-5.259551e-01	-2.244121e+00
## 1094	2.167156554	0.292223940	-2.487824e-02	4.740449e-01	-1.244121e+00
## 1095	1.167156554	1.292223940	-2.487824e-02	2.474045e+00	7.558791e-01
## 1096	1.167156554	1.292223940	9.751218e-01	-5.259551e-01	-2.244121e+00
## 1097	1.167156554	0.292223940	-2.487824e-02	4.740449e-01	-1.244121e+00
## 1098	-0.949393196	0.506469391	-8.391996e-01	-3.692464e-01	-2.300805e+00
## 1099	-4.086577030	-0.536241579	-1.973236e+00	-3.242577e+00	-5.416434e+00
## 1100	-2.846905931	-0.106808462	-4.526375e-01	-3.027632e+00	-4.412195e+00
## 1101	-3.052721799	-2.036335129	-2.339655e+00	-2.188734e+00	-4.307787e+00
## 1102	-2.970027280	-0.750487030	-1.158914e+00	-3.399286e+00	-5.359750e+00
## 1103	-1.922187515	0.621349829	-6.275296e-01	-1.810844e+00	-3.350990e+00
## 1104	-1.901553431	0.878306249	-3.078150e-01	-7.808039e-01	-2.292045e+00
## 1105	-0.832843446	1.292223940	-2.487824e-02	-1.525955e+00	-3.244121e+00
## 1106	-0.832843446	1.292223940	-2.487824e-02	-1.525955e+00	-3.244121e+00
## 1107	-0.928759113	0.763425811	-5.194850e-01	-3.392065e-01	-2.241860e+00
## 1108	-1.901553431	0.878306249	-3.078150e-01	-1.780804e+00	-3.292045e+00
## 1109	-0.785003681	1.664060799	5.065063e-01	-9.375127e-01	-2.235361e+00
## 1110	-1.997469098	0.349508120	-8.024218e-01	-1.594055e+00	-3.289785e+00
## 1111	-1.997469098	0.349508120	-8.024218e-01	-1.594055e+00	-3.289785e+00
## 1112	-1.901553431	0.878306249	-3.078150e-01	-1.780804e+00	-3.292045e+00
## 1113	0.119080652	1.135262670	1.189955e-02	-7.507641e-01	-2.233101e+00
## 1114	-0.880919348	1.135262670	1.189955e-02	-7.507641e-01	-2.233101e+00
## 1115	-0.880919348	1.135262670	1.189955e-02	-7.507641e-01	-2.233101e+00
## 1116	-0.880919348	1.135262670	1.189955e-02	-7.507641e-01	-2.233101e+00
## 1117	0.119080652	1.135262670	1.189955e-02	-7.507641e-01	-2.233101e+00

## 1118	-1.997469098	0.349508120	-8.024218e-01	-1.594055e+00	-3.289785e+00
## 1119	-0.880919348	0.135262670	1.189955e-02	-7.507641e-01	-2.233101e+00
## 1120	-2.880919348	0.135262670	-9.881005e-01	-7.507641e-01	-2.233101e+00
## 1121	-2.880919348	0.135262670	-9.881005e-01	-2.750764e+00	-4.233101e+00
## 1122	-2.997469098	-0.650491880	-1.802422e+00	-3.594055e+00	-5.289785e+00
## 1123	-1.880919348	0.135262670	-9.881005e-01	-1.750764e+00	-3.233101e+00
## 1124	-2.812209363	0.549180360	-7.051636e-01	-1.495915e+00	-3.185176e+00
## 1125	-0.661040995	2.463821738	1.326676e+00	-1.087985e+00	-2.169434e+00
## 1126	-0.852872329	0.406225480	3.374628e-01	-7.144879e-01	-2.164913e+00
## 1127	0.030577921	0.620470931	-4.768585e-01	-1.557779e+00	-3.221597e+00
## 1128	0.126493588	1.149269060	1.774824e-02	2.554722e-01	-1.223858e+00
## 1129	1.243043338	1.935023609	8.320696e-01	9.876348e-02	-1.167174e+00
## 1130	2.147127671	1.406225480	3.374628e-01	2.855121e-01	-1.164913e+00
## 1131	1.215837657	1.820143171	6.203996e-01	5.403609e-01	-1.116989e+00
## 1132	-1.085971829	-0.165283618	-1.291180e+00	-4.010704e-01	-2.278282e+00
## 1133	-0.894140495	0.892312640	-3.019664e-01	-7.745676e-01	-2.282803e+00
## 1134	-0.990056162	0.363514511	-7.965731e-01	-5.878190e-01	-2.280542e+00
## 1135	-2.106605912	-0.422240039	-1.610894e+00	-1.431110e+00	-3.337226e+00
## 1136	-0.990056162	0.363514511	-7.965731e-01	-5.878190e-01	-2.280542e+00
## 1137	0.105859505	0.892312640	-3.019664e-01	-7.745676e-01	-2.282803e+00
## 1138	0.105859505	0.892312640	6.980336e-01	-7.745676e-01	-2.282803e+00
## 1139	0.105859505	0.892312640	-3.019664e-01	-7.745676e-01	-2.282803e+00
## 1140	-0.894140495	0.892312640	-3.019664e-01	-7.745676e-01	-2.282803e+00
## 1141	-1.894140495	0.892312640	6.980336e-01	-7.745676e-01	-2.282803e+00
## 1142	-4.010690245	0.106558090	-1.116288e+00	-2.617859e+00	-4.339487e+00
## 1143	-4.928759113	-0.236574189	-1.519485e+00	-3.339207e+00	-5.241860e+00
## 1144	-4.010690245	0.106558090	-1.116288e+00	-4.617859e+00	-6.339487e+00
## 1145	-1.894140495	0.892312640	-3.019664e-01	-3.774568e+00	-5.282803e+00
## 1146	-0.695659613	1.334934910	1.091577e-01	-6.526240e-01	-2.128492e+00
## 1147	-0.756956662	1.935023609	8.320696e-01	9.876348e-02	-1.167174e+00
## 1148	1.263677422	2.191980030	1.151784e+00	1.288033e-01	-1.108229e+00
## 1149	0.051212005	0.877427351	-1.571439e-01	4.722607e-01	-1.162653e+00
## 1150	0.934662254	0.091672802	-9.714653e-01	-1.371031e+00	-3.219337e+00
## 1151	0.126493588	1.149269060	1.774824e-02	-7.445278e-01	-2.223858e+00
## 1152	2.243043338	1.935023609	8.320696e-01	1.098763e+00	-1.671738e-01
## 1153	0.030577921	0.620470931	-4.768585e-01	4.422208e-01	-1.221597e+00
## 1154	-0.873506412	1.149269060	1.774824e-02	2.554722e-01	-1.223858e+00
## 1155	-2.202521579	-0.951038168	-2.105501e+00	-2.244362e+00	-4.334966e+00
## 1156	-0.990056162	0.363514511	-7.965731e-01	-1.587819e+00	-3.280542e+00
## 1157	-2.010690245	0.106558090	-1.116288e+00	-2.617859e+00	-4.339487e+00
## 1158	0.105859505	0.892312640	-3.019664e-01	-1.774568e+00	-3.282803e+00
## 1159	0.222409255	1.678067189	5.123550e-01	6.872364e-02	-1.226119e+00
## 1160	-0.990056162	0.363514511	-7.965731e-01	-1.587819e+00	-3.280542e+00
## 1161	-1.990056162	0.363514511	-7.965731e-01	-1.587819e+00	-3.280542e+00
## 1162	-2.990056162	0.363514511	-7.965731e-01	-1.587819e+00	-3.280542e+00
## 1163	-4.106605912	-0.422240039	-1.610894e+00	-3.431110e+00	-5.337226e+00
## 1164	-1.894140495	0.892312640	-3.019664e-01	-2.774568e+00	-4.282803e+00
## 1165	-0.990056162	0.363514511	-7.965731e-01	-1.587819e+00	-3.280542e+00
## 1166	0.126493588	1.149269060	1.774824e-02	-7.445278e-01	-2.223858e+00
## 1167	0.243043338	1.935023609	8.320696e-01	9.876348e-02	-1.167174e+00
## 1168	1.147127671	1.406225480	3.374628e-01	2.855121e-01	-1.164913e+00
## 1169	0.030577921	0.620470931	-4.768585e-01	-5.577792e-01	-2.221597e+00
## 1170	1.009943838	0.363514511	-7.965731e-01	-5.878190e-01	-2.280542e+00
## 1171	0.009943838	0.363514511	-7.965731e-01	-5.878190e-01	-2.280542e+00

## 1172	1.126493588	1.149269060	1.774824e-02	2.554722e-01	-1.223858e+00
## 1173	1.009943838	0.363514511	-7.965731e-01	4.121810e-01	-1.280542e+00
## 1174	0.009943838	0.363514511	-7.965731e-01	4.121810e-01	-1.280542e+00
## 1175	-2.127239995	-0.679196459	-1.930609e+00	-1.461150e+00	-3.396171e+00
## 1176	-1.010690245	0.106558090	-1.116288e+00	-6.178589e-01	-2.339487e+00
## 1177	-2.010690245	0.106558090	-1.116288e+00	-1.617859e+00	-3.339487e+00
## 1178	-3.031324328	-0.150398330	-4.360023e-01	-2.647899e+00	-4.398432e+00
## 1179	-0.914774578	0.635356219	-6.216809e-01	-1.804607e+00	-3.341747e+00
## 1180	-1.914774578	0.635356219	-6.216809e-01	-8.046075e-01	-2.341747e+00
## 1181	-3.914774578	0.635356219	-6.216809e-01	-1.804607e+00	-3.341747e+00
## 1182	-3.894140495	0.892312640	-3.019664e-01	-2.774568e+00	-4.282803e+00
## 1183	-4.812209363	-0.450819640	-7.051636e-01	-3.495915e+00	-5.185176e+00
## 1184	-6.010690245	-0.893441910	-1.116288e+00	-4.617859e+00	-6.339487e+00
## 1185	-2.798224828	0.421110769	1.926404e-01	-3.961316e+00	-5.285063e+00
## 1186	0.338959005	1.463821738	1.326676e+00	-1.087985e+00	-2.169434e+00
## 1187	1.263677422	1.191980030	1.151784e+00	1.128803e+00	-1.082290e-01
## 1188	3.353021490	1.862854140	1.754436e+00	2.413692e+00	9.986400e-01
## 1189	2.353021490	2.862854140	1.754436e+00	4.413692e+00	2.998640e+00
## 1190	0.119921990	1.291345042	1.257929e-01	7.271095e-01	-1.114728e+00
## 1191	-0.900712093	1.034388621	-1.939217e-01	-3.029304e-01	-2.173673e+00
## 1192	0.195203573	1.563186751	3.006850e-01	-4.896790e-01	-2.175934e+00
## 1193	-1.921346177	0.777432201	-5.136363e-01	-3.329702e-01	-2.232618e+00
## 1194	-1.681675078	2.206865318	1.006962e+00	-1.180250e-01	-1.228379e+00
## 1195	-0.873506412	1.149269060	1.774824e-02	-7.445278e-01	-2.223858e+00
## 1196	-0.873506412	1.149269060	1.774824e-02	-7.445278e-01	-2.223858e+00
## 1197	-1.990056162	0.363514511	-7.965731e-01	-1.587819e+00	-3.280542e+00
## 1198	-0.777590745	1.678067189	5.123550e-01	-9.312764e-01	-2.226119e+00
## 1199	1.338959005	2.463821738	1.326676e+00	-8.798511e-02	-1.169434e+00
## 1200	0.126493588	1.149269060	1.774824e-02	2.554722e-01	-1.223858e+00
## 1201	0.126493588	1.149269060	1.774824e-02	2.554722e-01	-1.223858e+00
## 1202	0.126493588	1.149269060	1.774824e-02	2.554722e-01	-1.223858e+00
## 1203	0.126493588	1.149269060	1.774824e-02	2.554722e-01	-1.223858e+00
## 1204	-2.990056162	0.363514511	-7.965731e-01	-5.878190e-01	-2.280542e+00
## 1205	-3.894140495	0.892312640	-3.019664e-01	-2.774568e+00	-3.282803e+00
## 1206	-1.894140495	0.892312640	-3.019664e-01	-2.774568e+00	-4.282803e+00
## 1207	-0.894140495	0.892312640	-3.019664e-01	-1.774568e+00	-3.282803e+00
## 1208	0.105859505	0.892312640	-3.019664e-01	-7.745676e-01	-2.282803e+00
## 1209	1.338959005	2.463821738	1.326676e+00	1.912015e+00	8.305656e-01
## 1210	0.470209624	2.495230396	1.467359e+00	3.422738e+00	2.024152e+00
## 1211	1.030577921	0.620470931	-4.768585e-01	-5.577792e-01	-2.221597e+00
## 1212	1.009943838	0.363514511	2.034269e-01	-1.587819e+00	-3.280542e+00
## 1213	-1.010690245	0.106558090	-1.116288e+00	-6.178589e-01	-2.339487e+00
## 1214	0.201775172	1.421110769	1.926404e-01	3.868379e-02	-1.285063e+00
## 1215	1.434874672	2.992619868	1.821283e+00	1.725266e+00	8.283051e-01
## 1216	-2.106605912	-0.422240039	-1.610894e+00	-1.431110e+00	-3.337226e+00
## 1217	-4.141224530	-1.551126868	-2.828413e+00	-1.995749e+00	-4.296284e+00
## 1218	-2.914774578	0.635356219	-6.216809e-01	-2.804607e+00	-4.341747e+00
## 1219	-2.914774578	0.635356219	-6.216809e-01	-3.804607e+00	-5.341747e+00
## 1220	-1.798224828	1.421110769	1.926404e-01	-2.961316e+00	-4.285063e+00
## 1221	-2.894140495	0.892312640	-3.019664e-01	-2.774568e+00	-4.282803e+00
## 1222	-2.777590745	1.678067189	5.123550e-01	-1.931276e+00	-3.226119e+00
## 1223	-4.873506412	1.149269060	1.774824e-02	-2.744528e+00	-4.223858e+00
## 1224	-3.969422079	-0.379529069	-4.768585e-01	-4.557779e+00	-6.221597e+00
## 1225	-2.969422079	-0.379529069	-4.768585e-01	-2.557779e+00	-4.221597e+00



## 1226	-4.852872329	0.406225480	3.374628e-01	-7.144879e-01	-2.164913e+00
## 1227	-3.736322578	1.191980030	1.151784e+00	-2.871197e+00	-4.108229e+00
## 1228	-0.599138745	2.234690999	1.285820e+00	-9.978656e-01	-1.992600e+00
## 1229	0.161190156	-0.194742118	-2.347779e-01	-2.128108e-01	-1.996839e+00
## 1230	0.236471740	0.077099591	-5.988576e-02	-4.295993e-01	-2.058044e+00
## 1231	3.682036657	3.963161368	2.877685e+00	2.913526e+00	2.109748e+00
## 1232	3.394289657	2.376766981	2.393865e+00	3.473772e+00	2.116530e+00
## 1233	0.195808774	1.934144711	1.982741e+00	3.351828e+00	1.962219e+00
## 1234	-4.872665074	1.305351432	1.131642e+00	-1.266654e+00	-3.105486e+00
## 1235	-5.893299157	1.048395012	-1.880730e-01	-4.296694e+00	-6.164430e+00
## 1236	-2.866093475	0.163275450	2.359694e-02	-4.738291e+00	-6.214615e+00
## 1237	-1.784162343	0.820143171	-3.796004e-01	-2.459639e+00	-4.116989e+00
## 1238	0.544852824	2.920450399	1.743649e+00	1.040195e+00	-5.881132e-03
## 1239	2.606755074	3.691319659	2.702793e+00	3.130314e+00	2.170953e+00
## 1240	3.332992608	2.976855681	2.116777e+00	2.225159e+00	1.077848e+00
## 1241	0.052053343	1.033509723	-4.325058e-02	9.501342e-01	-1.044280e+00
## 1242	-3.941375059	0.891433741	-1.512952e-01	4.784970e-01	-1.153410e+00
## 1243	-4.749543725	0.949030000	8.379183e-01	-2.895000e+00	-4.157931e+00
## 1244	-2.728909642	1.205986420	1.157633e+00	-2.864960e+00	-4.098986e+00
## 1245	-5.941375059	-0.108566259	-1.512952e-01	-2.521503e+00	-4.153410e+00
## 1246	-4.845459392	0.420231871	3.433115e-01	-3.708252e+00	-5.155671e+00
## 1247	-0.399894475	3.306293648	3.280882e+00	-1.365126e+00	-1.987879e+00
## 1248	-1.502381740	2.919571500	2.894320e+00	1.293259e+00	1.235115e-01
## 1249	-1.714847157	1.605018822	1.585392e+00	-3.632833e-01	-1.930912e+00
## 1250	2.614168010	3.705326050	3.708642e+00	1.136551e+00	1.801957e-01
## 1251	1.401702593	2.390773371	2.399713e+00	1.480008e+00	1.257721e-01
## 1252	-1.714847157	1.605018822	1.585392e+00	1.636717e+00	6.908793e-02
## 1253	0.614168010	3.705326050	3.708642e+00	1.136551e+00	1.801957e-01
## 1254	-0.598297407	2.390773371	2.399713e+00	4.800080e-01	-8.742279e-01
## 1255	-2.831396907	0.819264273	7.710708e-01	-1.206575e+00	-2.987596e+00
## 1256	-2.735481240	1.348062402	1.265678e+00	-1.393323e+00	-2.989857e+00
## 1257	-1.406466073	3.448369629	3.388927e+00	1.065108e-01	-8.787491e-01
## 1258	-1.598297407	2.390773371	2.399713e+00	4.800080e-01	-8.742279e-01
## 1259	-1.598297407	2.390773371	2.399713e+00	4.800080e-01	-8.742279e-01
## 1260	-1.598297407	2.390773371	2.399713e+00	4.800080e-01	-8.742279e-01
## 1261	-1.598297407	2.390773371	2.399713e+00	4.800080e-01	-8.742279e-01
## 1262	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1263	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1264	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1265	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1266	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1267	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1268	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1269	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1270	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1271	-0.481747657	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1272	-0.481747657	2.176527921	1.214035e+00	1.323299e+00	1.824563e-01
## 1273	5.518252343	3.176527921	3.214035e+00	1.323299e+00	1.824563e-01
## 1274	5.518252343	-2.823472079	-2.785965e+00	1.323299e+00	6.182456e+00
## 1275	5.518252343	-2.823472079	-2.785965e+00	1.323299e+00	6.182456e+00
## 1276	4.518252343	-2.823472079	-2.785965e+00	1.323299e+00	6.182456e+00
## 1277	4.423100064	-1.723289830	-1.696634e+00	1.020843e+00	6.035128e+00
## 1278	-2.181046158	-7.537999376	-7.671893e+00	-3.736448e+00	-1.576487e-01
## 1279	-1.021179824	-1.176197358	-1.661641e+00	-2.115661e+00	3.384259e-01

## 1280	-1.021179824	-1.176197358	-1.661641e+00	-2.115661e+00	3.384259e-01
## 1281	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1282	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1283	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1284	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1285	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1286	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1287	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1288	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1289	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1290	0.095369926	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1291	-0.904630074	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1292	-0.904630074	-0.390442809	-8.473200e-01	-1.272369e+00	1.395110e+00
## 1293	-2.904630074	-0.390442809	-8.473200e-01	-1.272369e+00	3.951101e-01
## 1294	-0.904630074	-0.390442809	-8.473200e-01	-1.272369e+00	-6.048899e-01
## 1295	-0.904630074	-0.390442809	-8.473200e-01	-1.272369e+00	3.951101e-01
## 1296	0.211919677	0.395311741	-3.299865e-02	-4.290780e-01	1.451794e+00
## 1297	0.211919677	0.395311741	-3.299865e-02	-4.290780e-01	1.451794e+00
## 1298	2.238486974	1.663570473	1.280069e+00	9.635696e-01	3.432781e+00
## 1299	-0.201144729	-0.211188992	-6.641478e-01	-1.016948e+00	1.187032e+00
## 1300	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1301	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1302	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1303	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1304	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1305	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1306	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1307	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1308	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1309	0.005387474	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1310	-0.994612526	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1311	-0.994612526	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1312	-0.994612526	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1313	-1.994612526	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1314	-0.994612526	0.092061374	-3.485732e-01	-7.230129e-01	3.194130e-01
## 1315	1.121937224	0.877815924	4.657481e-01	1.202784e-01	2.376097e+00
## 1316	0.121937224	0.877815924	4.657481e-01	1.202784e-01	2.376097e+00
## 1317	0.121937224	0.877815924	4.657481e-01	1.202784e-01	2.376097e+00
## 1318	1.238486974	1.663570473	1.280069e+00	9.635696e-01	3.432781e+00
## 1319	-0.084594978	0.574565558	1.501736e-01	-1.736565e-01	2.243716e+00
## 1320	-0.994612526	0.092061374	-3.485732e-01	-7.230129e-01	1.319413e+00
## 1321	0.121937224	0.877815924	4.657481e-01	1.202784e-01	2.376097e+00
## 1322	0.121937224	0.877815924	4.657481e-01	1.202784e-01	2.376097e+00
## 1323	0.121937224	0.877815924	4.657481e-01	1.202784e-01	2.376097e+00
## 1324	0.121937224	0.877815924	4.657481e-01	1.202784e-01	2.376097e+00
## 1325	0.121937224	0.877815924	4.657481e-01	1.202784e-01	2.376097e+00
## 1326	4.121937224	4.877815924	4.465748e+00	4.120278e+00	2.376097e+00
## 1327	4.121937224	4.877815924	4.465748e+00	4.120278e+00	6.376097e+00
## 1328	4.121937224	4.877815924	4.465748e+00	4.120278e+00	6.376097e+00
## 1329	4.121937224	4.877815924	4.465748e+00	4.120278e+00	6.376097e+00
## 1330	4.121937224	4.877815924	4.465748e+00	4.120278e+00	6.376097e+00
## 1331	-0.733843332	-0.391211102	-8.199448e-01	-1.080406e+00	1.809602e+00
## 1332	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1333	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00

## 1334	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1335	-1.907714521	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1336	0.092285479	0.821790363	4.423534e-01	9.533321e-02	3.391269e-01
## 1337	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1338	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1339	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1340	2.325384979	2.393299461	2.070996e+00	1.781916e+00	4.452495e+00
## 1341	-0.320778926	0.215289630	-1.887957e-01	-4.925365e-01	2.074364e+00
## 1342	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1343	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1344	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1345	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1346	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1347	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1348	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1349	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1350	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1351	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1352	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1353	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1354	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1355	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1356	-1.907714521	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1357	0.092285479	0.821790363	4.423534e-01	9.533321e-02	-6.608731e-01
## 1358	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1359	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1360	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1361	2.325384979	2.393299461	2.070996e+00	1.781916e+00	4.452495e+00
## 1362	-0.527311129	-0.087960736	-5.043703e-01	-7.864713e-01	1.941983e+00
## 1363	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1364	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1365	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1366	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1367	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1368	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1369	0.092285479	0.821790363	4.423534e-01	9.533321e-02	2.339127e+00
## 1370	0.092285479	0.821790363	4.423534e-01	9.533321e-02	1.339127e+00
## 1371	0.092285479	0.821790363	4.423534e-01	9.533321e-02	1.339127e+00
## 1372	0.092285479	0.821790363	4.423534e-01	9.533321e-02	1.339127e+00
## 1373	0.092285479	0.821790363	4.423534e-01	9.533321e-02	1.339127e+00
## 1374	-0.907714521	0.821790363	4.423534e-01	9.533321e-02	1.339127e+00
## 1375	-1.114246724	0.518539996	1.267788e-01	-1.986016e-01	1.206746e+00
## 1376	-1.114246724	0.518539996	1.267788e-01	-1.986016e-01	1.206746e+00
## 1377	-1.114246724	0.518539996	1.267788e-01	-1.986016e-01	2.067456e-01
## 1378	-3.114246724	0.518539996	1.267788e-01	-1.986016e-01	2.067456e-01
## 1379	0.002303026	1.304294546	9.411002e-01	6.446896e-01	-7.365703e-01
## 1380	0.002303026	1.304294546	9.411002e-01	6.446896e-01	1.263430e+00
## 1381	0.002303026	1.304294546	9.411002e-01	6.446896e-01	1.263430e+00
## 1382	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1383	2.028870324	2.572553278	2.254168e+00	2.037337e+00	3.244417e+00
## 1384	-0.617293581	0.394543447	-5.623499e-03	-2.371149e-01	8.662859e-01
## 1385	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1386	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1387	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00

## 1388	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1389	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1390	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1391	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1392	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1393	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1394	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1395	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1396	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1397	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1398	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1399	-1.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1400	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	-8.689515e-01
## 1401	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1402	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1403	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1404	0.912320574	1.786798729	1.439847e+00	1.194046e+00	2.187733e+00
## 1405	-0.617293581	0.394543447	-5.623499e-03	-2.371149e-01	8.662859e-01
## 1406	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1407	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1408	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1409	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1410	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1411	-0.204229176	1.001044180	6.255256e-01	-1.649245e+00	1.131048e+00
## 1412	-0.204229176	1.001044180	6.255256e-01	-1.649245e+00	1.131048e+00
## 1413	-0.204229176	1.001044180	6.255256e-01	-1.649245e+00	1.131048e+00
## 1414	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1415	-0.204229176	1.001044180	6.255256e-01	-6.492452e-01	1.131048e+00
## 1416	0.017003895	0.549948654	2.674612e-01	1.312122e+00	1.400332e+00
## 1417	0.017003895	0.549948654	2.674612e-01	1.312122e+00	1.400332e+00
## 1418	0.017003895	0.549948654	2.674612e-01	1.312122e+00	1.400332e+00
## 1419	-1.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1420	-0.093612641	0.775496417	4.464934e-01	8.314382e-01	2.656903e-01
## 1421	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1422	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1423	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1424	0.912320574	1.786798729	1.439847e+00	1.194046e+00	2.187733e+00
## 1425	-0.410761379	0.697793813	3.099511e-01	5.681992e-02	9.986672e-01
## 1426	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1427	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1428	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1429	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1430	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1431	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1432	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1433	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1434	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1435	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1436	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1437	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1438	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1439	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1440	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.310485e-01
## 1441	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00

## 1442	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1443	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1444	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1445	-0.410761379	0.697793813	3.099511e-01	5.681992e-02	9.986672e-01
## 1446	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1447	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1448	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1449	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1450	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1451	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1452	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1453	-0.204229176	1.001044180	6.255256e-01	-6.492452e-01	1.131048e+00
## 1454	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1455	-0.204229176	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1456	0.795770824	1.001044180	6.255256e-01	3.507548e-01	1.131048e+00
## 1457	-2.204229176	1.001044180	3.625526e+00	3.350755e+00	1.131048e+00
## 1458	-2.093612641	0.775496417	3.446493e+00	2.831438e+00	-1.734310e+00
## 1459	-2.204229176	1.001044180	3.625526e+00	2.350755e+00	-1.868952e+00
## 1460	-2.204229176	1.001044180	3.625526e+00	2.350755e+00	-1.868952e+00
## 1461	-3.320778926	0.215289630	2.811204e+00	1.507464e+00	-2.925636e+00
## 1462	-0.057185887	2.219799728	3.581673e+00	3.431244e+00	1.333707e-01
## 1463	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1464	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1465	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1466	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1467	-0.648097091	1.427633146	3.859114e+00	2.751471e+00	-2.267578e-01
## 1468	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1469	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1470	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1471	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1472	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1473	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1474	-0.566165959	0.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1475	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1476	-0.566165959	0.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1477	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1478	-0.566165959	0.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1479	-0.497455973	0.498418557	3.738854e+00	3.284972e+00	-8.120701e-02
## 1480	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1481	-0.497455973	1.498418557	3.738854e+00	3.284972e+00	-8.120701e-02
## 1482	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1483	-0.497455973	1.498418557	3.738854e+00	3.284972e+00	-8.120701e-02
## 1484	-0.497455973	1.498418557	3.738854e+00	3.284972e+00	-8.120701e-02
## 1485	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1486	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1487	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1488	-0.566165959	0.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1489	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1490	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1491	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1492	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1493	-0.497455973	1.498418557	3.738854e+00	3.284972e+00	-8.120701e-02
## 1494	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01
## 1495	-0.566165959	1.084500867	3.455917e+00	3.030123e+00	-1.291313e-01

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## 1496 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1497 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1498 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1499 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1500 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1501 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1502 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1503 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1504 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1505 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1506 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1507 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1508 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1509 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1510 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1511 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1512 -0.566165959 1.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1513 24.433834041 26.084500867 3.455917e+00 3.030123e+00 -1.291313e-01
## 1514 24.433834041 26.084500867 2.845592e+01 2.803012e+01 2.487087e+01
## 1515 24.433834041 25.084500867 2.845592e+01 2.803012e+01 2.487087e+01
## 1516 24.433834041 24.084500867 2.845592e+01 2.803012e+01 2.487087e+01
## 1517 24.433834041 23.084500867 2.845592e+01 2.803012e+01 2.487087e+01
## 1518 -5.197659343 -6.907305129 1.024463e+00 5.766216e-01 -2.744344e+00
## 1519 -0.751489367 -1.265658890 3.309700e+00 2.874216e+00 -3.601956e-01
## 1520 -0.682779382 -0.851741200 3.592637e+00 3.129064e+00 -3.122713e-01
## 1521 -0.614069397 -0.437823509 3.875573e+00 3.383913e+00 -2.643470e-01
## 1522 -0.545359412 -1.023905819 4.158510e+00 3.638762e+00 -2.164226e-01
## 1523 -0.545359412 0.976094181 4.158510e+00 3.638762e+00 -2.164226e-01
## 1524 -0.614069397 1.562176491 3.875573e+00 3.383913e+00 -2.643470e-01
## 1525 -0.614069397 1.562176491 3.875573e+00 3.383913e+00 -2.643470e-01
## 1526 -0.614069397 1.562176491 3.875573e+00 3.383913e+00 -2.643470e-01
## 1527 -0.545359412 1.976094181 4.158510e+00 3.638762e+00 -2.164226e-01
## 1528 -0.682779382 1.148258800 3.592637e+00 3.129064e+00 -3.122713e-01
## 1529 -0.751489367 0.734341110 3.309700e+00 2.874216e+00 -3.601956e-01
## 1530 -0.751489367 0.734341110 3.309700e+00 2.874216e+00 -3.601956e-01
## 1531 -0.751489367 -0.265658890 3.309700e+00 2.874216e+00 -3.601956e-01
## 1532 -0.751489367 -0.265658890 3.309700e+00 2.874216e+00 -3.601956e-01
## 1533 -0.751489367 -0.265658890 3.309700e+00 2.874216e+00 -3.601956e-01
## 1534 2.248510633 3.734341110 3.309700e+00 3.874216e+00 -3.601956e-01
## 1535 2.248510633 2.734341110 3.096998e-01 8.742156e-01 -1.360196e+00
## 1536 2.317220618 3.148258800 5.926366e-01 1.129064e+00 -2.312271e+00
## 1537 2.317220618 3.148258800 5.926366e-01 1.129064e+00 -3.312271e+00
## 1538 2.317220618 3.148258800 5.926366e-01 1.129064e+00 -4.312271e+00
## 1539 -1.417885109 -0.639127847 -2.803042e+00 -2.900888e+00 -6.808663e+00
## 1540 -1.469651116 -0.175706973 -2.163185e+00 -2.333881e+00 -6.782074e+00
## 1541 -1.676183318 -0.478957339 -2.478760e+00 -2.627816e+00 -6.914455e+00
## 1542 -1.882715521 -0.782207705 -2.794334e+00 -2.921751e+00 -6.046836e+00
## 1543 -2.089247724 -1.085458071 -3.109909e+00 -3.215685e+00 -6.179218e+00
## 1544 -1.882715521 -0.782207705 -2.794334e+00 -2.921751e+00 -6.046836e+00
## 1545 -1.882715521 -0.782207705 -2.794334e+00 -2.921751e+00 -4.046836e+00
## 1546 -1.882715521 -0.782207705 -2.794334e+00 -2.921751e+00 -4.046836e+00
## 1547 -1.676183318 -0.478957339 -2.478760e+00 -2.627816e+00 -3.914455e+00
## 1548 48.323816682 49.521042661 4.752124e+01 4.737218e+01 4.508554e+01
## 1549 48.323816682 49.521042661 4.752124e+01 4.737218e+01 4.408554e+01

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## 1550	48.736881087	50.127543394	4.815239e+01	4.796005e+01	4.435031e+01
## 1551	48.736881087	50.127543394	4.815239e+01	4.796005e+01	4.435031e+01
## 1552	48.736881087	50.127543394	4.815239e+01	4.796005e+01	4.435031e+01
## 1553	-1.840297933	-0.876026486	-2.455620e+00	-2.645695e+00	-5.244202e+00
## 1554	-2.046830136	-1.179276852	-2.771194e+00	-2.939630e+00	-5.376584e+00
## 1555	-2.046830136	-1.179276852	-2.771194e+00	-2.939630e+00	-4.376584e+00
## 1556	-2.046830136	-1.179276852	-2.771194e+00	-2.939630e+00	-4.376584e+00
## 1557	-2.046830136	-1.179276852	-2.771194e+00	-2.939630e+00	-5.376584e+00
## 1558	-1.840297933	-0.876026486	-2.455620e+00	-3.645695e+00	-5.244202e+00
## 1559	-1.840297933	-0.876026486	-3.455620e+00	-3.645695e+00	-6.244202e+00
## 1560	-1.633765731	-0.572776120	-3.140045e+00	-3.351761e+00	-6.111821e+00
## 1561	-1.633765731	-0.572776120	-3.140045e+00	-3.351761e+00	-6.111821e+00
## 1562	-1.840297933	-0.876026486	-3.455620e+00	-3.645695e+00	-6.244202e+00
## 1563	-1.729681398	-1.101574249	-3.634652e+00	-3.165012e+00	-6.109560e+00
## 1564	-2.018144732	-1.061692336	-3.547029e+00	-3.737599e+00	-6.339568e+00
## 1565	-2.018144732	-1.061692336	-3.547029e+00	-2.737599e+00	-5.339568e+00
## 1566	-2.018144732	-1.061692336	-2.547029e+00	-2.737599e+00	-4.339568e+00
## 1567	-2.018144732	-1.061692336	-3.547029e+00	-3.737599e+00	-5.339568e+00
## 1568	-2.018144732	-1.061692336	-3.547029e+00	-3.737599e+00	-6.339568e+00
## 1569	-2.018144732	-1.061692336	-4.547029e+00	-4.737599e+00	-6.339568e+00
## 1570	-1.922229065	-0.532894207	-3.052422e+00	-4.924348e+00	-7.341829e+00
## 1571	-1.633765731	-0.572776120	-4.140045e+00	-4.351761e+00	-8.111821e+00
## 1572	-1.811612530	-0.758441969	-5.231455e+00	-5.443664e+00	-9.207187e+00
## 1573	-2.018144732	-1.061692336	-5.547029e+00	-6.737599e+00	-9.339568e+00
## 1574	-1.989459329	-0.944107819	-6.322864e+00	-7.535568e+00	-1.130255e+01
## 1575	-2.114060399	-1.590490465	-1.004164e+01	-1.055085e+01	-1.533731e+01
## 1576	-2.402523734	-1.550608552	-9.954013e+00	-1.112344e+01	-1.456732e+01
## 1577	72.419629467	73.263725599	6.295458e+01	6.278466e+01	6.033732e+01
## 1578	72.530246003	73.038177836	6.277555e+01	6.326534e+01	6.047196e+01
## 1579	72.145867001	72.549261620	6.236856e+01	6.287950e+01	6.024421e+01
## 1580	71.405794402	71.689013705	6.177876e+01	6.230986e+01	5.982573e+01
## 1581	71.612326604	71.992264072	6.109433e+01	6.260379e+01	5.895812e+01
## 1582	-3.996889350	-3.597498403	-1.271696e+01	-1.294055e+01	-1.479569e+01
## 1583	-3.996889350	-3.597498403	-9.716957e+00	-9.940551e+00	-1.079569e+01
## 1584	-3.996889350	-3.597498403	-7.716957e+00	-7.940551e+00	-8.795688e+00
## 1585	-3.996889350	-3.597498403	-7.716957e+00	-7.940551e+00	-9.795688e+00
## 1586	-4.285352685	-3.557616489	-1.062933e+01	-1.151314e+01	-1.102570e+01
## 1587	-3.790357148	-3.294248036	-8.401383e+00	-8.646616e+00	-8.663307e+00
## 1588	-3.050284548	-2.434000121	-7.811580e+00	-7.076970e+00	-6.244828e+00
## 1589	-2.694590950	-2.062668422	-6.628761e+00	-6.893163e+00	-6.054096e+00
## 1590	-2.901123153	-2.365918789	-6.944335e+00	-7.187098e+00	-6.186478e+00
## 1591	-3.021599145	-2.316415605	-6.587414e+00	-6.874939e+00	-7.207813e+00
## 1592	-2.665905547	-1.945083906	-6.404596e+00	-6.691132e+00	-7.017081e+00
## 1593	-2.363457677	-1.113035410	-5.594414e+00	-6.583945e+00	-5.886960e+00
## 1594	-2.281526545	-1.456167690	-5.997612e+00	-6.305293e+00	-6.789334e+00
## 1595	-2.281526545	-1.456167690	-5.997612e+00	-6.305293e+00	-6.789334e+00
## 1596	-2.488058748	-1.759418056	-6.313186e+00	-6.599228e+00	-5.921715e+00
## 1597	-2.488058748	-1.759418056	-6.313186e+00	-6.599228e+00	-5.921715e+00
## 1598	-2.281526545	-1.456167690	-5.997612e+00	-6.305293e+00	-5.789334e+00
## 1599	-2.488058748	-1.759418056	-6.313186e+00	-6.599228e+00	-6.921715e+00
## 1600	-2.488058748	-1.759418056	-7.313186e+00	-6.599228e+00	-6.921715e+00
## 1601	-2.281526545	-1.456167690	-6.997612e+00	-7.305293e+00	-7.789334e+00
## 1602	-2.281526545	-1.456167690	-6.997612e+00	-6.305293e+00	-6.789334e+00
## 1603	-2.281526545	-1.456167690	-6.997612e+00	-6.305293e+00	-6.789334e+00

## 1604	-2.488058748	-1.759418056	-6.313186e+00	-6.599228e+00	-6.921715e+00
## 1605	72.430010120	73.583714224	6.809001e+01	6.712212e+01	6.798066e+01
## 1606	71.334094453	72.054916094	6.759540e+01	6.730887e+01	6.698292e+01
## 1607	72.430010120	73.583714224	6.809001e+01	6.712212e+01	6.798066e+01
## 1608	72.430010120	73.583714224	6.909001e+01	6.912212e+01	6.998066e+01
## 1609	72.511941252	73.240581944	6.968681e+01	6.940077e+01	6.907829e+01
## 1610	-3.015343570	-2.692312810	-5.527673e+00	-5.864919e+00	-6.577892e+00
## 1611	-2.036616037	-1.795890936	-5.745990e+00	-6.060714e+00	-6.605665e+00
## 1612	-3.015343570	-2.692312810	-6.527673e+00	-6.864919e+00	-7.577892e+00
## 1613	-2.741581104	-1.977848831	-5.941657e+00	-6.959764e+00	-6.484787e+00
## 1614	-2.866182175	-2.624231477	-6.660429e+00	-6.975046e+00	-7.519542e+00
## 1615	-2.866182175	-2.624231477	-6.660429e+00	-6.975046e+00	-7.519542e+00
## 1616	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1617	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1618	-2.837496771	-2.506646960	-6.436264e+00	-6.773015e+00	-6.482526e+00
## 1619	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1620	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1621	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1622	-2.837496771	-2.506646960	-6.436264e+00	-6.773015e+00	-7.482526e+00
## 1623	-2.837496771	-2.506646960	-6.436264e+00	-6.773015e+00	-8.482526e+00
## 1624	-2.837496771	-2.506646960	-6.436264e+00	-6.773015e+00	-8.482526e+00
## 1625	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1626	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1627	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1628	-3.250561176	-3.113147693	-7.067413e+00	-7.360885e+00	-6.747289e+00
## 1629	-3.250561176	-4.113147693	-7.067413e+00	-7.360885e+00	-6.747289e+00
## 1630	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-6.614908e+00
## 1631	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-6.614908e+00
## 1632	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-6.614908e+00
## 1633	-2.837496771	-2.506646960	-6.436264e+00	-6.773015e+00	-7.482526e+00
## 1634	-2.768786786	-2.092729270	-6.153327e+00	-6.518166e+00	-7.434602e+00
## 1635	-2.837496771	-2.506646960	-6.436264e+00	-6.773015e+00	-7.482526e+00
## 1636	-2.837496771	-2.506646960	-6.436264e+00	-6.773015e+00	-7.482526e+00
## 1637	-2.837496771	-2.506646960	-6.436264e+00	-6.773015e+00	-7.482526e+00
## 1638	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-8.614908e+00
## 1639	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-7.614908e+00
## 1640	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-8.614908e+00
## 1641	-3.044028974	-2.809897326	-6.751838e+00	-7.066950e+00	-8.614908e+00
## 1642	-3.044028974	-2.809897326	-7.751838e+00	-8.066950e+00	-9.614908e+00
## 1643	-3.250561176	-3.113147693	-8.067413e+00	-8.360885e+00	-1.074729e+01
## 1644	71.955971026	72.190102674	6.624816e+01	6.593305e+01	6.338509e+01
## 1645	71.749438824	71.886852307	6.493259e+01	6.563912e+01	6.325271e+01
## 1646	71.749438824	71.886852307	6.493259e+01	6.563912e+01	6.325271e+01
## 1647	71.571592025	71.701186458	6.484118e+01	6.454721e+01	6.215735e+01
## 1648	71.365059822	71.397936092	6.452560e+01	6.425328e+01	6.202496e+01
## 1649	-4.368757203	-4.838209028	-1.200446e+01	-1.230635e+01	-1.576360e+01
## 1650	-4.450688335	-4.495076749	-1.160126e+01	-1.258500e+01	-1.386122e+01
## 1651	-4.450688335	-4.495076749	-1.060126e+01	-1.058500e+01	-1.186122e+01
## 1652	-4.546604002	-5.023874878	-9.095868e+00	-9.398253e+00	-7.858961e+00
## 1653	-4.546604002	-5.023874878	-9.095868e+00	-9.398253e+00	-7.858961e+00
## 1654	-4.930983004	-5.512791094	-9.502852e+00	-9.784092e+00	-7.086708e+00
## 1655	-4.517918599	-4.906290361	-8.871703e+00	-9.196222e+00	-6.821946e+00
## 1656	-4.244156133	-4.191826383	-8.285687e+00	-9.291067e+00	-6.728840e+00
## 1657	-3.364781594	-3.439541714	-7.650751e+00	-8.038706e+00	-7.138704e+00



```

## 1658 -3.364781594 -3.439541714 -7.650751e+00 -8.038706e+00 -7.138704e+00
## 1659 -3.158249391 -3.136291348 -7.335176e+00 -7.744771e+00 -7.006323e+00
## 1660 -3.158249391 -3.136291348 -7.335176e+00 -7.744771e+00 -6.006323e+00
## 1661 -3.158249391 -3.136291348 -7.335176e+00 -7.744771e+00 -7.006323e+00
## 1662 -3.364781594 -3.439541714 -7.650751e+00 -8.038706e+00 -7.138704e+00
## 1663 -3.364781594 -3.439541714 -7.650751e+00 -8.038706e+00 -8.138704e+00
## 1664 -3.364781594 -3.439541714 -7.650751e+00 -8.038706e+00 -9.138704e+00
## 1665 -3.158249391 -3.136291348 -7.335176e+00 -7.744771e+00 -1.000632e+01
## 1666 -3.364781594 -3.439541714 -7.650751e+00 -8.038706e+00 -9.138704e+00
## 1667 -3.364781594 -3.439541714 -7.650751e+00 -8.038706e+00 -8.138704e+00
## 1668 -3.571313796 -3.742792080 -7.966325e+00 -8.332641e+00 -7.271085e+00
## 1669 -3.777845999 -4.046042446 -8.281900e+00 -8.626576e+00 -6.403467e+00
## 1670 -3.984378202 -5.349292813 -8.597475e+00 -8.920511e+00 -6.535848e+00
## 1671 -3.777845999 -4.046042446 -8.281900e+00 -7.626576e+00 -6.403467e+00
## 1672 -3.571313796 -3.742792080 -7.966325e+00 -8.332641e+00 -6.271085e+00
## 1673 71.635218406 71.560458286 6.734925e+01 6.796129e+01 6.886130e+01
## 1674 71.841750609 71.863708652 6.766482e+01 6.825523e+01 6.899368e+01
## 1675 71.910460594 72.277626343 6.794776e+01 6.751008e+01 6.704160e+01
## 1676 71.731134073 72.089256415 6.784386e+01 6.677455e+01 6.685904e+01
## 1677 71.841750609 71.863708652 6.766482e+01 6.725523e+01 6.699368e+01
## 1678 -3.824836153 -3.961222855 -7.594796e+00 -8.693177e+00 -8.834157e+00
## 1679 -3.824836153 -3.961222855 -7.594796e+00 -8.693177e+00 -7.834157e+00
## 1680 -4.127284023 -4.793271350 -6.404978e+00 -6.800363e+00 -6.964278e+00
## 1681 -4.127284023 -4.793271350 -6.404978e+00 -6.800363e+00 -5.964278e+00
## 1682 -4.127284023 -4.793271350 -6.404978e+00 -6.800363e+00 -6.964278e+00
## 1683 -4.127284023 -4.793271350 -7.404978e+00 -7.800363e+00 -6.964278e+00
## 1684 -3.920751820 -4.490020984 -7.089403e+00 -7.506428e+00 -6.831897e+00
## 1685 -3.771590425 -4.421939651 -7.222159e+00 -7.616555e+00 -6.773546e+00
## 1686 -3.565058222 -4.118689285 -6.906584e+00 -7.322621e+00 -7.641165e+00
## 1687 -3.771590425 -4.421939651 -7.222159e+00 -7.616555e+00 -6.773546e+00
## 1688 -3.742905021 -4.304355135 -5.997994e+00 -6.414524e+00 -6.736531e+00
## 1689 -3.742905021 -4.304355135 -5.997994e+00 -6.414524e+00 -5.736531e+00
## 1690 -3.742905021 -4.304355135 -3.997994e+00 -4.414524e+00 -4.736531e+00
## 1691 -3.949437224 -4.607605501 -5.313568e+00 -5.708459e+00 -4.868912e+00
## 1692 -3.742905021 -4.304355135 -4.997994e+00 -5.414524e+00 -5.736531e+00
## 1693 -3.771590425 -4.421939651 -5.222159e+00 -5.616555e+00 -5.773546e+00
## 1694 -3.565058222 -4.118689285 -5.906584e+00 -6.322621e+00 -6.641165e+00
## 1695 -3.415896827 -4.050607952 -7.039340e+00 -7.432748e+00 -6.582814e+00
## 1696 -3.387211423 -3.933023435 -6.815175e+00 -7.230717e+00 -6.545799e+00
## 1697 -3.593743626 -4.236273802 -7.130749e+00 -7.524652e+00 -6.678180e+00
## 1698 -3.593743626 -4.236273802 -7.130749e+00 -7.524652e+00 -6.678180e+00
## 1699 -3.771590425 45.578060349 -7.222159e+00 -7.616555e+00 -6.773546e+00
## 1700 -3.742905021 45.695644865 -6.997994e+00 -7.414524e+00 -6.736531e+00
## 1701 46.257094979 45.695644865 4.400201e+01 4.358548e+01 4.526347e+01
## 1702 46.257094979 45.695644865 4.500201e+01 4.458548e+01 4.526347e+01
## 1703 46.257094979 45.695644865 4.400201e+01 4.358548e+01 4.326347e+01
## 1704 42.821595718 24.999760342 2.885517e+01 2.984304e+01 4.086725e+01
## 1705 42.821595718 24.999760342 2.885517e+01 2.984304e+01 4.086725e+01
## 1706 -3.729172837 -4.515758432 -6.883444e+00 -7.340500e+00 -6.970912e+00
## 1707 -3.757858240 -4.633342949 -7.107609e+00 -7.542532e+00 -7.007928e+00
## 1708 -4.142237242 -5.122259165 -7.514593e+00 -6.928370e+00 -7.235675e+00
## 1709 -4.113551838 -5.004674648 -7.290428e+00 -7.726339e+00 -7.198659e+00
## 1710 -4.113551838 -5.004674648 -7.290428e+00 -7.726339e+00 -7.198659e+00
## [[1]]

```

```

##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    1.11654975  0.7857545  0.8143213  0.8432913  1.05668417
## OBFR    0.06870999  0.4139177  0.2829368  0.2548488  0.04792432
## TGCR   -0.08193113  0.3431323  0.4031973 -0.2786523 -0.09762650
## BGCR    0.11061654 -0.2255478 -0.1790322  0.4806834  0.13464187
## SOFR   -0.20653220 -0.3032504 -0.3155746 -0.2939348 -0.13238129
## ones_v  0.55366160 -1.7328341 -1.3366881 -1.1867142  0.10651422
##
## [[2]]
##          [,1]          [,2]          [,3]          [,4]          [,5]
## [1,] 0.18815632 0.15957079 0.15612968 0.1572547 0.18620873
## [2,] 0.21735870 0.18291541 0.17979047 0.1818249 0.21784464
## [3,] 0.23104060 0.19471644 0.19556972 0.2118511 0.23618841
## [4,] 0.06537717 0.09766023 0.09726182 0.1188078 0.06932747
## [5,] 0.18389347 0.15261152 0.14583393 0.1495088 0.18356647
## [6,] 0.45027356 0.64010019 0.61466950 0.5746012 0.44359645
##
## [[3]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999912 0.9999892 0.9999865 0.9999864 0.9999883
##
## [[4]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999912 0.9999892 0.9999865 0.9999863 0.9999882
##
## [[5]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    0.035402800 -0.039543474  0.041172082 -0.003187188 -0.033727551
## OBFR   -0.039543474  0.047244803 -0.048320216  0.002568084  0.037995561
## TGCR    0.041172082 -0.048320216  0.053379757 -0.005815532 -0.040270338
## BGCR   -0.003187188  0.002568084 -0.005815532  0.004274174  0.002078670
## SOFR   -0.033727551  0.037995561 -0.040270338  0.002078670  0.033816808
## ones_v -0.014756166  0.015536165 -0.006336693 -0.001739719  0.006315559
##          ones_v          EFFR          OBFR          TGCR          BGCR
## EFFR   -0.014756166  0.025462836 -0.027765601  0.025734858 -0.005278662
## OBFR    0.015536165 -0.027765601  0.033458049 -0.031074632  0.004370426
## TGCR   -0.006336693  0.025734858 -0.031074632  0.037914493 -0.007461339
## BGCR   -0.001739719 -0.005278662  0.004370426 -0.007461339  0.009537521
## SOFR    0.006315559 -0.017992218  0.020922718 -0.024941154 -0.001334550
## ones_v  0.0202746282 -0.033232177  0.031438829 -0.008444274  0.025140280
##          SOFR          ones_v          EFFR          OBFR          TGCR
## EFFR   -0.017992222 -0.033232177  0.024376478 -0.026714919  0.02508085
## OBFR    0.02092272  0.031438829 -0.026714919  0.032324612 -0.03071401
## TGCR   -0.02494115 -0.008444274  0.025080852 -0.030714010  0.03824752
## BGCR   -0.00133455  0.025140280 -0.005584053  0.005177316 -0.00871408
## SOFR    0.02329027 -0.016535676 -0.016970417  0.019774880 -0.02362165
## ones_v -0.01653568  0.409728251 -0.032578389  0.031248562 -0.01116472
##          BGCR          SOFR          ones_v          EFFR          OBFR
## EFFR   -0.0055840532 -0.0169704174 -0.03257839  0.024729048 -0.027230050
## OBFR    0.0051773163  0.0197748800  0.03124856 -0.027230050  0.033060295
## TGCR   -0.0087140801 -0.0236216506 -0.01116472  0.026594864 -0.032408908
## BGCR    0.0094598624 -0.0005392963  0.02378533 -0.004925486  0.004542554
## SOFR   -0.0005392963  0.0212675354 -0.01278658 -0.018989963  0.021891919
## ones_v  0.0237853332 -0.0127865824  0.37781860 -0.026152659  0.025235630

```

```
##          TGCR          BGCR          SOFR          ones_v          EFRF
## EFRF      0.02659486 -0.0049254856 -0.0189899634 -0.026152659  0.034673692
## OBFR      -0.03240891  0.0045425539  0.0218919187  0.025235630 -0.039180195
## TGCR       0.04488088 -0.0136745354 -0.0250836090 -0.012483016  0.041213841
## BGCR      -0.01367454  0.0141153002 -0.0002733364  0.019982253 -0.003108522
## SOFR      -0.02508361 -0.0002733364  0.0223528837 -0.007988554 -0.033427693
## ones_v    -0.01248302  0.0199822530 -0.0079885542  0.330166576 -0.016199528
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFRF     -0.039180195  0.041213841 -0.0031085220 -0.033427693 -0.0161995282
## OBFR       0.047456287 -0.049395733  0.0028822394  0.038095821  0.0165048784
## TGCR      -0.049395733  0.055784967 -0.0067519370 -0.040555809 -0.0094396980
## BGCR       0.002882239 -0.006751937  0.0048062979  0.002031406 -0.0006291126
## SOFR       0.038095821 -0.040555809  0.0020314064  0.033696651  0.0086863731
## ones_v     0.016504878 -0.009439698 -0.0006291126  0.008686373  0.1967778111
##
## [[6]]
##          [,1] [,2] [,3]
## [1,] 134541.92    6    0
## [2,]  85791.48    6    0
## [3,]   70282.36    6    0
## [4,]   67288.42    6    0
## [5,]  112508.82    6    0
```

```
print(result[[1]]) # bv
```

```
##          EFRF          OBFR          TGCR          BGCR          SOFR
## EFRF      1.11654975  0.7857545  0.8143213  0.8432913  1.05668417
## OBFR       0.06870999  0.4139177  0.2829368  0.2548488  0.04792432
## TGCR      -0.08193113  0.3431323  0.4031973 -0.2786523 -0.09762650
## BGCR       0.11061654 -0.2255478 -0.1790322  0.4806834  0.13464187
## SOFR      -0.20653220 -0.3032504 -0.3155746 -0.2939348 -0.13238129
## ones_v     0.55366160 -1.7328341 -1.3366881 -1.1867142  0.10651422
```

```
print(result[[2]]) # sebv
```

```
##          [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.18815632 0.15957079 0.15612968 0.1572547 0.18620873
## [2,] 0.21735870 0.18291541 0.17979047 0.1818249 0.21784464
## [3,] 0.23104060 0.19471644 0.19556972 0.2118511 0.23618841
## [4,] 0.06537717 0.09766023 0.09726182 0.1188078 0.06932747
## [5,] 0.18389347 0.15261152 0.14583393 0.1495088 0.18356647
## [6,] 0.45027356 0.64010019 0.61466950 0.5746012 0.44359645
```

```
print(result[[4]]) # R2adj
```

```
##          EFRF          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999912 0.9999892 0.9999865 0.9999863 0.9999882
```

```
print(result[[5]]) # v covariance
```

```
##          EFRF          OBFR          TGCR          BGCR          SOFR
```

```
## EFFR    0.035402800 -0.039543474  0.041172082 -0.003187188 -0.033727551
## OBFR    -0.039543474  0.047244803 -0.048320216  0.002568084  0.037995561
## TGCR     0.041172082 -0.048320216  0.053379757 -0.005815532 -0.040270338
## BGCR    -0.003187188  0.002568084 -0.005815532  0.004274174  0.002078670
## SOFR    -0.033727551  0.037995561 -0.040270338  0.002078670  0.033816808
## ones_v  -0.014756166  0.015536165 -0.006336693 -0.001739719  0.006315559
##          ones_v          EFFR          OBFR          TGCR          BGCR
## EFFR    -0.014756166  0.025462836 -0.027765601  0.025734858 -0.005278662
## OBFR     0.015536165 -0.027765601  0.033458049 -0.031074632  0.004370426
## TGCR    -0.006336693  0.025734858 -0.031074632  0.037914493 -0.007461339
## BGCR    -0.001739719 -0.005278662  0.004370426 -0.007461339  0.009537521
## SOFR     0.006315559 -0.017992218  0.020922718 -0.024941154 -0.001334550
## ones_v   0.0202746282 -0.033232177  0.031438829 -0.008444274  0.025140280
##          SOFR          ones_v          EFFR          OBFR          TGCR
## EFFR    -0.017992222 -0.033232177  0.024376478 -0.026714919  0.02508085
## OBFR     0.02092272  0.031438829 -0.026714919  0.032324612 -0.03071401
## TGCR    -0.02494115 -0.008444274  0.025080852 -0.030714010  0.03824752
## BGCR    -0.00133455  0.025140280 -0.005584053  0.005177316 -0.00871408
## SOFR     0.02329027 -0.016535676 -0.016970417  0.019774880 -0.02362165
## ones_v  -0.01653568  0.409728251 -0.032578389  0.031248562 -0.01116472
##          BGCR          SOFR          ones_v          EFFR          OBFR
## EFFR    -0.0055840532 -0.0169704174 -0.03257839  0.024729048 -0.027230050
## OBFR     0.0051773163  0.0197748800  0.03124856 -0.027230050  0.033060295
## TGCR    -0.0087140801 -0.0236216506 -0.01116472  0.026594864 -0.032408908
## BGCR     0.0094598624 -0.0005392963  0.02378533 -0.004925486  0.004542554
## SOFR    -0.0005392963  0.0212675354 -0.01278658 -0.018989963  0.021891919
## ones_v   0.0237853332 -0.0127865824  0.37781860 -0.026152659  0.025235630
##          TGCR          BGCR          SOFR          ones_v          EFFR
## EFFR     0.02659486 -0.0049254856 -0.0189899634 -0.026152659  0.034673692
## OBFR    -0.03240891  0.0045425539  0.0218919187  0.025235630 -0.039180195
## TGCR     0.04488088 -0.0136745354 -0.0250836090 -0.012483016  0.041213841
## BGCR    -0.01367454  0.0141153002 -0.0002733364  0.019982253 -0.003108522
## SOFR    -0.02508361 -0.0002733364  0.0223528837 -0.007988554 -0.033427693
## ones_v  -0.01248302  0.0199822530 -0.0079885542  0.330166576 -0.016199528
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFFR    -0.039180195  0.041213841 -0.0031085220 -0.033427693 -0.0161995282
## OBFR     0.047456287 -0.049395733  0.0028822394  0.038095821  0.0165048784
## TGCR    -0.049395733  0.055784967 -0.0067519370 -0.040555809 -0.0094396980
## BGCR     0.002882239 -0.006751937  0.0048062979  0.002031406 -0.0006291126
## SOFR     0.038095821 -0.040555809  0.0020314064  0.033696651  0.0086863731
## ones_v   0.016504878 -0.009439698 -0.0006291126  0.008686373  0.1967778111
```

```
print(result[[6]]) # Ftest
```

```
##          [,1] [,2] [,3]
## [1,] 134541.92    6    0
## [2,]  85791.48    6    0
## [3,]  70282.36    6    0
## [4,]  67288.42    6    0
## [5,] 112508.82    6    0
```

```
bvtablek5<-xtable(result[[1]])
sebvtablek5<-xtable(result[[2]])
```

```
R2adjtablek5<-xtable(result[[4]])
vtablek5<-xtable(result[[5]])
Ftesttablek5<-xtable(result[[6]])
rrbpk5table <- cbind(bvtablek5, sebvtablek5)
```

```
#k=10 r(11,21) = a +b_1 r(11,1)
lhv<- rrbp[11:1710,1:5]
T<-nrow(lhv)
ones_v <- rep(1, times = T)
nrow(ones_v)
```

```
## NULL
```

```
rhv1<- rrbp[1:1700,1:5]
rhv<- cbind(rhv1, ones_v) # Add a column of ones

result <-olsghmmv2(lhv,rhv,nlag,nw) #constant
```

```
## [1] 1700
## [1] 1700
## [1] 1700
## [1] 5
## [1] 6
##      EFR      OBFR      TGCR      BGCR      SOFR
## 108.7524 105.2571 104.8812 105.9900 108.5565
##      EFR      OBFR      TGCR      BGCR      SOFR
## 11  -1.620214e+00 -3.720977e+00 -5.320917e+00 -8.603394e+00 -1.379442e+00
## 12  -1.391464e+00 -5.042592e+00 -4.541041e+00 -5.591377e+00 -1.088013e+00
## 13  -1.576693e+00 -4.178480e+00 -8.914357e-01  1.467610e+00 -1.265697e+00
## 14  -1.770278e+00 -8.795530e-01 -1.421224e+00  1.379962e+00 -1.517461e+00
## 15  -1.770278e+00 -8.795530e-01 -1.421224e+00  1.379962e+00 -1.517461e+00
## 16  -2.148831e+00 -5.454791e-01 -3.212665e-01 -3.555668e-01 -1.970591e+00
## 17  -1.924259e+00 -1.149686e+00 -3.631087e+00 -2.416867e+00 -1.716201e+00
## 18  -1.561925e+00 -3.275051e+00 -8.763257e-01  5.296120e+00 -1.430830e+00
## 19  -1.337670e+01 -1.139163e+00 -5.259307e-01  4.237132e+00 -1.253145e+00
## 20  -9.189328e-01 -6.113563e-01 -9.860378e-01  3.554301e+00 -1.269397e+01
## 21  -6.151503e-01 -3.536828e-01 -1.656008e+00  3.074640e+00 -3.335274e-01
## 22  -7.253471e-01 -9.102833e-01 -1.456249e+00  1.641950e+00 -4.422022e-01
## 23  -1.364161e+00 -1.291386e+00 -1.256841e+00 -5.429137e-01 -1.142025e+00
## 24  -1.636957e+00 -2.854339e+00 -2.426479e+00 -2.212202e+00 -1.499839e+00
## 25  -1.636957e+00 -2.854339e+00 -2.426479e+00 -1.212202e+00 -1.499839e+00
## 26  -1.558008e+00 -2.163494e+00 -2.766770e+00 -1.923695e+00 -1.370109e+00
## 27  -1.451728e+00 -1.718451e+00 -2.076084e+00 -1.271189e+00 -1.322155e+00
## 28  -1.975642e+00  8.171019e-02 -1.026456e+00 -3.363778e+00 -1.923624e+00
## 29   1.334157e+01  9.543999e+00  8.907731e+00  1.221634e+01  1.244298e+01
## 30  -5.434671e+00 -6.599387e+00 -7.094362e+00 -4.769882e+00 -4.218990e+00
## 31  -1.412123e+00 -2.287510e+00 -3.756159e+00 -4.980369e+00 -1.269130e+00
## 32  -1.258142e+00 -4.017378e+00 -4.546296e+00 -5.183541e+00 -1.070390e+00
## 33  -1.293569e+00 -4.165725e+00 -5.776525e+00 -5.401043e+00 -1.086375e+00
## 34  -1.293569e+00 -5.165725e+00 -1.776525e+00  5.989573e-01 -1.086375e+00
## 35  -1.407944e+00 -2.004918e+00 -3.666463e+00 -3.907052e+00 -1.232090e+00
## 36  -1.333174e+00 -3.596666e+00 -5.096450e+00 -5.691863e+00 -1.139400e+00
```

```

## 37 -1.333174e+00 -4.596666e+00 -5.096450e+00 -6.691863e+00 -1.139400e+00
## 38 -1.333174e+00 -4.596666e+00 -6.096450e+00 -7.691863e+00 -1.139400e+00
## 39 -1.790675e+00 -4.953437e+00 -2.656202e+00 -6.715898e+00 -1.722259e+00
## 40 -8.561925e+00 -3.275051e+00 -4.876326e+00 -6.703880e+00 -1.430830e+00
## 41 -9.939648e-01 -4.190644e+00 -3.536192e+00 -2.954021e+00 -7.762976e+00
## 42 -8.793276e-01 -2.180416e+00 -2.666113e+00 -2.154879e+00 -6.409418e-01
## 43 -9.582761e-01 -1.871261e+00 -1.325822e+00 -4.433861e-01 -7.706717e-01
## 44 -1.289129e+00 -7.120980e-01 -7.066869e-01 -3.459181e-02 -1.073016e+00
## 45 -1.108340e+00 -1.029837e+00 -2.426130e+00 5.399701e-01 -9.086909e-01
## 46 -9.189328e-01 -1.611356e+00 -1.986038e+00 1.554301e+00 -6.939665e-01
## 47 -7.649523e-01 -1.341223e+00 -1.776175e+00 2.351130e+00 -4.952270e-01
## 48 -7.295256e-01 -1.192876e+00 -1.545946e+00 2.568632e+00 -4.792422e-01
## 49 -7.962007e-01 -1.206979e+00 -1.916707e+00 2.206946e+00 -4.741718e-01
## 50 7.928878e+00 4.598684e+00 5.310556e+00 1.105831e+01 7.578417e+00
## 51 -3.173856e+00 -3.434626e+00 -4.940196e+00 6.724512e-01 -2.283353e+00
## 52 -9.543596e-01 -1.759704e+00 -3.216266e+00 3.367988e-01 -7.099513e-01
## 53 -1.104162e+00 -2.747245e+00 -4.336433e+00 -4.386712e+00 -8.716509e-01
## 54 -1.293569e+00 -4.165725e+00 -5.776525e+00 -7.401043e+00 -1.086375e+00
## 55 -1.412123e+00 -5.287510e+00 -5.756159e+00 -9.980369e+00 -1.269130e+00
## 56 -1.372517e+00 -4.856570e+00 -2.436234e+00 -3.689550e+00 -1.216105e+00
## 57 -1.372517e+00 -2.856570e+00 -4.436234e+00 -7.689550e+00 -1.216105e+00
## 58 -1.372517e+00 -2.856570e+00 -4.436234e+00 -5.689550e+00 -1.216105e+00
## 59 -1.372517e+00 -4.856570e+00 -5.436234e+00 -9.689550e+00 -1.216105e+00
## 60 -1.636695e+00 -4.683304e+00 -2.446338e+00 -1.919069e+00 -1.523520e+00
## 61 -9.640873e+00 -1.965896e+00 -3.536035e+00 -2.992387e+00 -1.560560e+00
## 62 -1.337091e+00 -2.708222e+00 -3.206005e+00 -1.472048e+00 -9.200120e+00
## 63 -9.189328e-01 -2.611356e+00 -2.986038e+00 5.543008e-01 -6.939665e-01
## 64 -7.295256e-01 -2.192876e+00 -2.545946e+00 2.568632e+00 -4.792422e-01
## 65 -4.611698e-01 -2.083550e+00 -1.446145e+00 4.871469e+00 -1.347878e-01
## 66 -9.105760e-01 -1.046172e+00 -8.066445e-01 4.700937e+00 -6.198866e-01
## 67 -6.901823e-01 -9.329708e-01 -1.206162e+00 4.566319e+00 -4.025369e-01
## 68 -9.189328e-01 -6.113563e-01 2.013962e+00 6.554301e+00 -6.939665e-01
## 69 -4.611698e-01 1.916450e+00 2.553855e+00 8.871469e+00 -1.347878e-01
## 70 -1.253702e+00 2.436250e+00 1.523542e+00 3.182910e+00 -1.057031e+00
## 71 8.774693e+00 8.388967e+00 9.990102e+00 1.396111e+01 8.254032e+00
## 72 -2.879316e+00 -8.268394e-01 -1.364771e+00 4.441438e+00 -3.005869e+00
## 73 -2.974855e-01 2.722718e+00 1.113920e+00 5.818772e+00 -1.147096e+00
## 74 -4.118608e-01 8.835248e-01 1.223982e+00 3.312763e+00 -2.928105e-01
## 75 -4.472876e-01 1.735177e+00 9.937532e-01 4.095262e+00 -3.087953e-01
## 76 -6.366949e-01 1.316696e+00 1.553662e+00 5.080931e+00 -5.235196e-01
## 77 -5.619248e-01 1.724949e+00 3.123674e+00 1.229612e+01 -4.308296e-01
## 78 3.317949e-01 3.279905e+00 1.743299e+01 1.764361e+01 -4.787840e-01
## 79 1.252584e+00 1.341803e+01 1.179314e+01 2.006197e+01 4.151665e-01
## 80 2.402386e+00 1.040557e+01 9.913305e+00 1.778548e+01 1.576866e+00
## 81 2.102782e+00 9.430484e+00 4.672972e+00 1.033846e+01 2.253467e+00
## 82 6.058803e-01 4.582358e+00 6.903886e+00 2.232398e+01 7.432284e-01
## 83 -1.024432e+01 6.569899e+00 3.024052e+00 7.047494e+00 9.049280e-01
## 84 1.386372e+00 3.553859e+00 -1.121385e+00 2.063318e+00 -9.465246e+00
## 85 2.323917e-01 -7.162738e-01 -1.331248e+00 -2.733511e+00 1.336014e+00
## 86 8.258964e-02 -7.038144e-01 -1.451415e+00 -4.570217e-01 1.743146e-01
## 87 -5.997456e-01 -6.274140e-01 -6.814869e-01 2.871102e-01 -6.392537e-01
## 88 -1.444953e+00 -5.048926e+00 -6.664837e+00 -1.932125e+00 -8.554112e-01
## 89 -3.559723e+00 -9.204524e+00 -1.061705e+01 -1.059868e+01 -3.473900e+00
## 90 -4.196923e+00 -9.219269e+00 -9.771559e+00 -1.029219e+01 -4.086564e+00

```

```

## 91 -3.543080e+00 -7.763702e+00 -6.975717e+00 -6.985682e+00 -3.575554e+00
## 92 -4.749067e+00 -3.716106e+00 -5.176019e+00 -1.004101e+01 -5.014272e+00
## 93 1.058964e+01 3.844354e+00 2.678948e+00 2.540060e+00 9.691655e+00
## 94 -6.299779e+00 -1.065104e+01 -1.278818e+01 -1.206156e+01 -5.280165e+00
## 95 -8.698667e-01 -5.802716e+00 -6.266014e+00 -5.301265e+00 -7.476247e-01
## 96 -1.535721e+00 6.823601e+01 6.662934e+01 6.175854e+01 -1.417116e+00
## 97 -1.914274e+00 -4.429915e+00 -2.270707e+00 -3.976986e+00 -1.870245e+00
## 98 -1.725129e+00 -3.182470e+00 -3.810756e+00 -5.255789e+00 -1.631840e+00
## 99 -1.614670e+00 -2.454834e+00 -4.030374e+00 -5.529965e+00 -1.546846e+00
## 100 -1.460689e+00 -3.184701e+00 -3.820511e+00 -4.733136e+00 -1.348106e+00
## 101 -1.496116e+00 -3.333049e+00 -4.050739e+00 -3.950638e+00 -1.364091e+00
## 102 -1.764472e+00 -3.442375e+00 -4.150540e+00 -5.253476e+00 -1.708545e+00
## 103 -1.138592e+01 -7.764484e-01 -1.250498e+00 3.482053e+00 -1.255416e+00
## 104 -1.200429e+00 6.953048e+01 6.808004e+01 6.371620e+01 -1.110141e+01
## 105 -8.924675e-01 6.907074e+01 6.849976e+01 6.530986e+01 -7.039332e-01
## 106 -5.951908e+00 2.570855e+01 2.757837e+01 2.993557e+01 -5.211796e+00
## 107 -1.188155e+00 2.072167e-01 -6.310129e-01 3.643020e+00 -9.666119e-01
## 108 -1.117564e+00 -6.671228e-01 -2.150697e+00 -2.151095e-01 -9.109618e-01
## 109 -1.082137e+00 -1.518775e+00 -2.920468e+00 -1.997607e+00 -8.949770e-01
## 110 -1.042532e+00 -2.087835e+00 -2.600543e+00 -1.706788e+00 -8.419523e-01
## 111 -1.156907e+00 -1.927028e+00 -4.904810e-01 7.872036e-01 -9.876670e-01
## 112 -1.156907e+00 -9.270276e-01 -4.904810e-01 2.787204e+00 -9.876670e-01
## 113 1.080023e+01 6.849824e+00 7.294440e+00 9.529650e+00 1.004014e+01
## 114 -9.179196e+00 -4.672840e+01 -4.476999e+01 -3.528610e+01 -7.535263e+00
## 115 -5.912303e+00 -4.186051e+01 -4.110171e+01 -3.177361e+01 -5.158772e+00
## 116 -5.912303e+00 -4.286051e+01 -4.010171e+01 -3.077361e+01 -5.158772e+00
## 117 -1.725129e+00 -2.182470e+00 -3.810756e+00 -2.557886e-01 -1.631840e+00
## 118 -1.346576e+00 -3.516544e+00 -4.910714e+00 -4.520260e+00 -1.178711e+00
## 119 -1.157169e+00 -4.098063e+00 -6.470622e+00 -7.505929e+00 -1.096399e+01
## 120 -1.117564e+00 -5.667123e+00 -4.150697e+00 -2.215109e+00 -9.109618e-01
## 121 -1.302792e+00 -3.803011e+00 -4.501092e+00 -4.156122e+00 -1.088646e+00
## 122 -1.571148e+00 -3.912337e+00 -3.600893e+00 -4.589599e-01 -1.433101e+00
## 123 -1.685523e+00 -2.751530e+00 -4.490831e+00 -1.964969e+00 -1.578815e+00
## 124 -1.610753e+00 -4.343277e+00 -4.920818e+00 -7.497798e-01 -1.486125e+00
## 125 -1.575327e+00 -4.194929e+00 -2.690590e+00 6.467722e+00 -1.470140e+00
## 126 -1.157115e+01 -1.912337e+00 -2.600893e+00 3.541040e+00 -1.433101e+00
## 127 -1.729045e+00 -1.294027e+00 -2.920312e+00 9.640264e-01 -1.169256e+01
## 128 -1.082137e+00 -2.518775e+00 -2.920468e+00 3.002393e+00 -8.949770e-01
## 129 -3.970216e+00 -7.549700e+00 -6.708573e+00 -4.481434e+00 -2.842020e+00
## 130 -1.077696e+00 -2.065147e+00 -1.850631e+00 1.368843e+00 -8.816176e-01
## 131 -1.042532e+00 -2.087835e+00 -6.005431e-01 5.293212e+00 -8.419523e-01
## 132 -1.535459e+00 4.070463e-01 -1.390523e+00 1.051675e+00 -1.440796e+00
## 133 -1.539638e+00 -8.755459e-01 -1.480220e+00 9.783572e-01 -1.477836e+00
## 134 -1.614408e+00 -2.837986e-01 -1.050233e+00 7.631683e-01 -1.570526e+00
## 135 -2.257138e+00 2.235419e-01 3.962013e-02 -2.018799e-01 -2.331070e+00
## 136 1.064651e+01 8.750726e+00 7.064718e+00 5.025954e+00 9.817715e+00
## 137 -5.070709e+00 -6.570166e+00 -1.015861e+01 -9.763650e+00 -4.161742e+00
## 138 -1.689440e+00 -4.863087e+00 -4.600387e+00 -5.745154e+00 -1.639536e+00
## 139 -1.077958e+00 -5.236183e+00 -5.830772e+00 -2.924290e+00 -8.579371e-01
## 140 -1.421084e+00 -4.753761e+00 -4.500586e+00 -3.442316e+00 -1.295081e+00
## 141 -1.760294e+00 -4.159782e+00 -3.060844e+00 2.819842e+00 -1.671505e+00
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## 143 -1.650097e+00 -2.603182e+00 2.739398e+00 1.425253e+01 -1.562831e+00
## 144 -1.650097e+00 3.396818e+00 5.739398e+00 2.425253e+01 -1.562831e+00

```

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## 145 -1.799899e+00 6.409278e+00 7.619231e+00 2.952902e+01 -1.724530e+00
## 146 -1.346576e+00 7.483456e+00 1.208929e+01 5.047974e+01 -1.178711e+00
## 147 -1.235441e+01 1.426034e+01 1.870175e+00 6.919370e+00 -1.300152e+00
## 148 -1.042270e+00 2.083200e+00 5.379598e+00 1.858635e+01 -1.186563e+01
## 149 -1.121218e+00 6.392356e+00 4.719888e+00 1.329784e+01 -9.953627e-01
## 150 -1.156645e+00 5.244008e+00 3.489660e+00 7.080337e+00 -1.011348e+00
## 151 -1.953355e+00 3.481215e+00 -6.303502e-01 -6.815403e-01 -1.970631e+00
## 152 -1.032566e+00 -3.806648e-01 -2.270201e+00 -5.263180e+00 -2.076680e+00
## 153 -1.817003e+00 -1.466716e+00 -1.101262e+00 -8.098236e+00 -2.901163e+00
## 154 -2.961542e+00 -1.371749e+00 -1.941064e+00 -1.103772e+01 -3.287269e+00
## 155 -3.608712e+00 -1.318036e+00 -5.921049e+00 -1.636922e+01 -4.061172e+00
## 156 -5.466310e+00 -3.670354e+00 -5.171173e+00 -2.312250e+01 -6.287153e+00
## 157 1.232450e+01 1.567923e+00 -6.353942e-01 -5.536975e-01 1.130187e+01
## 158 -5.521262e+00 -9.788525e+00 -1.207447e+01 -2.083203e+01 -4.632035e+00
## 159 -1.636738e+00 -8.126525e+00 -7.780986e+00 -1.310994e+01 -1.689477e+00
## 160 -9.898299e-01 -7.351274e+00 -9.781143e+00 -1.307157e+01 -8.918935e-01
## 161 -7.689124e-01 -7.896002e+00 -5.220378e+00 -5.619926e+00 -7.219048e-01
## 162 -1.535517e+00 -4.824404e+00 -6.260073e+00 -4.941083e+00 -1.291470e+00
## 163 -1.452390e+00 -5.850967e+00 -4.510667e+00 -5.792581e-01 -1.124700e+00
## 164 -1.473049e+00 -4.095886e+00 -3.725786e+00 3.174914e-02 -1.305818e+00
## 165 -1.520749e+00 -2.920975e+00 -5.244963e+00 -4.112574e+00 -1.456603e+00
## 166 -1.551736e+00 -4.615696e+00 -2.405354e+00 3.036375e+00 -1.459228e+00
## 167 -1.125631e+01 -1.923207e+00 -5.254718e+00 -3.589921e+00 -1.172869e+00
## 168 -6.445664e-01 -4.125268e+00 -5.504962e+00 -1.475924e+00 -1.041495e+01
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## 171 -9.793354e-01 -2.077661e+00 -3.995383e+00 -1.847315e+00 -7.780151e-01
## 172 -1.062724e+00 -4.222134e+00 -4.724930e+00 -3.502272e+00 -9.211046e-01
## 173 -1.322723e+00 -3.766275e+00 -3.645337e+00 -2.658474e+00 -1.191479e+00
## 174 -1.551736e+00 -3.615696e+00 -2.405354e+00 -9.636247e-01 -1.459228e+00
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## 176 -1.815651e+00 -2.271394e+00 -3.435318e+00 -6.900011e+00 -1.790323e+00
## 177 1.138342e+01 4.948280e+00 2.740416e+00 1.701526e+00 1.064482e+01
## 178 -4.329356e+00 -8.918985e+00 -1.041308e+01 -1.372163e+01 -3.321277e+00
## 179 -1.511869e+00 -5.013720e+00 -7.105288e+00 -1.237967e+01 -1.429884e+00
## 180 -1.401934e+00 -7.628155e+00 -8.285188e+00 -1.324011e+01 -1.297529e+00
## 181 -1.177100e+00 -7.061326e+00 -8.614868e+00 -1.300828e+01 -1.066819e+00
## 182 -1.023119e+00 -7.791194e+00 -7.405004e+00 -1.121145e+01 -8.680798e-01
## 183 -1.172921e+00 -6.778734e+00 -7.525171e+00 -1.093496e+01 -1.029779e+00
## 184 -1.397755e+00 -7.345563e+00 -8.195491e+00 -1.316680e+01 -1.260489e+00
## 185 -1.177361e+00 -8.232362e+00 -8.595009e+00 -1.230141e+01 -1.043139e+00
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## 188 -4.551591e-01 -6.706787e+00 -7.064870e+00 -8.461593e+00 -1.020023e+01
## 189 -3.801271e-01 -6.127499e+00 -6.514717e+00 -7.953271e+00 -1.312168e-01
## 190 -2.261466e-01 -5.857366e+00 -6.304853e+00 -7.156442e+00 6.752276e-02
## 191 -1.907198e-01 -5.709018e+00 -6.074625e+00 -6.938940e+00 8.350756e-02
## 192 -1.865413e-01 -5.426426e+00 -5.984928e+00 -6.865623e+00 1.205475e-01
## 193 -3.405219e-01 -5.696559e+00 -3.194791e+00 -3.662451e+00 -7.819203e-02
## 194 -2.261466e-01 -2.857366e+00 -3.304853e+00 -3.156442e+00 6.752276e-02
## 195 -2.261466e-01 -2.857366e+00 -5.304853e+00 -5.156442e+00 6.752276e-02
## 196 -2.615733e-01 -5.005714e+00 -6.535082e+00 -7.373944e+00 5.153795e-02
## 197 1.241358e+01 3.014120e+00 2.669028e+01 2.613500e+01 1.188521e+01
## 198 2.154657e+01 1.370569e+01 1.434678e+01 1.362189e+01 -2.255944e+00

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## 199	2.477385e+01	1.914263e+01	1.869515e+01	1.684356e+01	2.506752e+01
## 200	2.477385e+01	1.914263e+01	1.769515e+01	1.484356e+01	2.506752e+01
## 201	2.477385e+01	1.814263e+01	1.569515e+01	1.284356e+01	2.506752e+01
## 202	2.477385e+01	1.714263e+01	1.669515e+01	1.284356e+01	2.506752e+01
## 203	2.455320e+01	1.685840e+01	1.711452e+01	1.568504e+01	2.487385e+01
## 204	2.443438e+01	1.656558e+01	1.815475e+01	1.681258e+01	2.471478e+01
## 205	2.450524e+01	1.886227e+01	2.061520e+01	1.924759e+01	2.474675e+01
## 206	2.473425e+01	2.171169e+01	1.837522e+01	1.755274e+01	2.501450e+01
## 207	2.392361e+01	1.558228e+01	1.216966e+01	9.623510e+00	2.468389e+01
## 208	-1.966167e+01	-1.808734e+01	-1.822661e+01	-1.880229e+01	-6.148917e+00
## 209	-5.186764e-01	-7.586723e+00	-3.785686e+00	-3.032929e+00	-1.124756e+01
## 210	-3.688743e-01	-3.599182e+00	-5.665519e+00	-4.309418e+00	-8.586045e-02
## 211	-2.584155e-01	-4.871546e+00	-4.885137e+00	-3.583594e+00	-8.660917e-04
## 212	-1.398618e-01	-4.749761e+00	-5.905502e+00	-4.004268e+00	1.818886e-01
## 213	-5.184145e-01	-5.415687e+00	-6.805545e+00	-7.739796e+00	-2.712405e-01
## 214	-6.288733e-01	-7.143323e+00	-6.585927e+00	-7.465620e+00	-3.562349e-01
## 215	-7.789373e-01	-7.301899e+00	-6.686235e+00	-7.482264e+00	-4.942540e-01
## 216	-7.518674e-01	-6.718736e+00	-5.635399e+00	-4.411398e+00	-5.523491e-01
## 217	-3.688743e-01	-4.599182e+00	-2.665519e+00	1.690582e+00	-8.586045e-02
## 218	1.334568e+01	6.912008e+00	7.769178e+00	1.418998e+01	1.267519e+01
## 219	-4.364119e+00	-7.159852e+00	-1.071952e+01	-1.205047e+01	-3.089733e+00
## 220	-9.016694e-01	-6.706276e+00	-7.755566e+00	-9.134909e+00	-7.140487e-01
## 221	-8.224590e-01	-6.844396e+00	-8.115715e+00	-9.553269e+00	-6.079992e-01
## 222	-7.870322e-01	-7.696048e+00	-5.885487e+00	-6.335767e+00	-5.920144e-01
## 223	-5.976249e-01	-5.277567e+00	-5.445395e+00	-5.321436e+00	-3.772900e-01
## 224	-5.934465e-01	-4.994975e+00	-5.355699e+00	-5.248118e+00	-3.402501e-01
## 225	-6.684785e-01	-5.574263e+00	-5.905852e+00	-4.756440e+00	-4.092596e-01
## 226	-9.722611e-01	-5.831937e+00	-6.235882e+00	-7.276780e+00	-7.696988e-01
## 227	-1.311470e+00	-6.237958e+00	-4.796140e+00	-2.014621e+00	-1.146123e+00
## 228	-1.169420e+01	-4.186476e+00	-5.785879e+00	-7.823468e+00	-1.636292e+00
## 229	-8.268994e-01	-6.298024e+00	-7.185553e+00	-5.919720e+00	-1.062136e+01
## 230	-6.726569e-01	-5.856855e+00	-5.995549e+00	-4.829758e+00	-4.462996e-01
## 231	-5.976249e-01	-5.277567e+00	-5.445395e+00	-5.321436e+00	-3.772900e-01
## 232	-7.432485e-01	-4.982516e+00	-6.475865e+00	-7.971629e+00	-5.019497e-01
## 233	-8.224590e-01	-6.844396e+00	-7.115715e+00	-8.553269e+00	-6.079992e-01
## 234	-8.224590e-01	-6.844396e+00	-5.115715e+00	-4.553269e+00	-6.079992e-01
## 235	-9.368343e-01	-4.683589e+00	-6.005653e+00	-6.059278e+00	-7.537140e-01
## 236	-8.224590e-01	-5.844396e+00	-7.115715e+00	-6.553269e+00	-6.079992e-01
## 237	-1.465189e+00	-6.337056e+00	-7.025862e+00	-1.051832e+01	-1.368543e+00
## 238	1.147388e+01	1.338477e+00	3.229464e+00	2.927019e+00	1.079623e+01
## 239	-4.203728e+00	-9.551475e+00	-1.167394e+01	-1.257177e+01	-3.130205e+00
## 240	-9.368343e-01	-6.683589e+00	-7.005653e+00	-9.059278e+00	-7.537140e-01
## 241	-8.224590e-01	-6.844396e+00	-8.115715e+00	-9.553269e+00	-6.079992e-01
## 242	-6.726569e-01	-7.856855e+00	-7.995549e+00	-8.829758e+00	-4.462996e-01
## 243	-6.330517e-01	-7.425915e+00	-7.675624e+00	-8.538938e+00	-3.932748e-01
## 244	-9.326558e-01	-7.400997e+00	-6.915957e+00	-8.985960e+00	-7.166740e-01
## 245	-9.764395e-01	-7.114529e+00	-8.325579e+00	-9.350098e+00	-8.067387e-01
## 246	-9.014075e-01	-7.535241e+00	-5.775425e+00	-6.841776e+00	-7.377292e-01
## 247	-9.747427e+00	-5.265108e+00	-7.565562e+00	-9.044947e+00	-5.389896e-01
## 248	-9.326558e-01	-2.940100e+01	-2.891596e+01	-2.498596e+01	-9.716674e+00
## 249	-8.266374e-01	-3.012699e+01	-2.920541e+01	-2.262659e+01	-6.450391e-01
## 250	-6.330517e-01	-2.842592e+01	-2.867562e+01	-2.353894e+01	-3.932748e-01
## 251	-5.976249e-01	-6.277567e+00	-7.445395e+00	-8.321436e+00	-3.772900e-01
## 252	-5.580197e-01	-6.846627e+00	-7.125470e+00	-8.030616e+00	-3.242653e-01

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## 253 -5.580197e-01 -6.846627e+00 -7.125470e+00 -8.030616e+00 -3.242653e-01
## 254 -5.934465e-01 -6.994975e+00 -7.355699e+00 -8.248118e+00 -3.402501e-01
## 255 -7.120002e-01 -7.116760e+00 -7.335333e+00 -8.827445e+00 -5.230048e-01
## 256 -7.432485e-01 -6.982516e+00 -5.475865e+00 -6.971629e+00 -5.019497e-01
## 257 1.073853e+01 2.275830e+00 2.330300e+00 2.750046e+00 1.020561e+01
## 258 -2.533553e+00 4.720952e+00 2.749453e+01 2.309941e+01 -1.787449e+00
## 259 2.514226e+01 3.303582e+01 3.062818e+01 2.388689e+01 1.224182e-02
## 260 2.533140e+01 3.128326e+01 3.008813e+01 2.460809e+01 2.525065e+01
## 261 2.440238e+01 1.772243e+01 1.755460e+01 1.667856e+01 2.462271e+01
## 262 2.444198e+01 1.815337e+01 1.787453e+01 1.696938e+01 2.467573e+01
## 263 2.444198e+01 1.815337e+01 1.887453e+01 1.796938e+01 2.467573e+01
## 264 2.444198e+01 1.915337e+01 1.987453e+01 1.896938e+01 2.467573e+01
## 265 2.444198e+01 2.015337e+01 1.887453e+01 1.796938e+01 2.467573e+01
## 266 2.437113e+01 1.885668e+01 1.841407e+01 1.753438e+01 2.464377e+01
## 267 2.417754e+01 1.815560e+01 1.788428e+01 1.644673e+01 2.439200e+01
## 268 2.332730e+01 1.459525e+01 1.335880e+01 1.322668e+01 2.400837e+01
## 269 -9.072750e+00 -1.693848e+01 -1.368707e+01 -9.258101e+00 -6.646755e+00
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## 274 -1.075384e+00 -5.142813e+00 -5.276623e+00 -2.138936e+00 -8.700572e-01
## 275 -1.079562e+00 -5.425405e+00 -5.366319e+00 -4.212254e+00 -9.070972e-01
## 276 -1.039957e+00 -4.994465e+00 -6.046394e+00 -4.921434e+00 -8.540724e-01
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## 278 -1.189759e+00 -5.982005e+00 -3.166561e+00 1.355056e+00 -1.015772e+00
## 279 -1.793146e+00 -3.214760e+00 -2.736923e+00 3.876943e-01 -1.699610e+00
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## 299 -2.325679e+00 -6.150819e+00 -7.846829e+00 -1.414466e+01 -2.351479e+00
## 300 8.310020e+00 -1.853791e+00 -7.003501e-01 -6.189169e-01 7.704142e+00
## 301 -3.965175e+00 -1.023264e+01 -1.117504e+01 -1.110993e+01 -3.126310e+00
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## 305 -1.268969e+00 -7.843885e+00 -7.806411e+00 -9.226584e+00 -1.121822e+00
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## 323 2.042726e+01 2.025202e+01 2.016490e+01 2.484939e+01 -3.847188e+00
## 324 2.304870e+01 2.423251e+01 2.096352e+01 2.351755e+01 2.306461e+01
## 325 2.316307e+01 2.107171e+01 1.885345e+01 1.702356e+01 2.321032e+01
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## 327 2.278452e+01 1.740578e+01 1.795341e+01 1.228803e+01 2.275720e+01
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## 408 -4.828131e+00 -1.027009e+01 -9.975391e+00 -9.322426e+00 -3.837076e+00
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## 427 -2.200051e+00 -4.783309e+00 -5.107694e+00 -2.994801e+00 -2.160408e+00
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## 445 -2.169064e+00 -8.088589e+00 -7.947303e+00 -9.143750e+00 -2.157783e+00
## 446 -1.865282e+00 -7.830916e+00 -7.617273e+00 -7.623411e+00 -1.797343e+00
## 447 -1.526072e+00 -7.424894e+00 -6.057015e+00 -4.885569e+00 -1.420920e+00
## 448 -2.089592e+00 -5.055674e+00 1.967269e+01 1.873102e+01 -1.075414e+00
## 449 3.332153e+01 2.584556e+01 2.812899e+01 3.131807e+01 8.725818e+00
## 450 2.038022e+01 1.733441e+01 1.756951e+01 1.959373e+01 2.124956e+01
## 451 2.302478e+01 2.178352e+01 2.156263e+01 2.323703e+01 2.307030e+01
## 452 2.402452e+01 2.061248e+01 2.058249e+01 2.194390e+01 2.409398e+01
## 453 2.398492e+01 2.018154e+01 2.226256e+01 2.265308e+01 2.404096e+01
## 454 2.405577e+01 2.247824e+01 2.372302e+01 2.508808e+01 2.407293e+01
## 455 2.424936e+01 2.417931e+01 2.425281e+01 2.617573e+01 2.432469e+01
## 456 2.424936e+01 2.417931e+01 2.425281e+01 2.617573e+01 2.432469e+01
## 457 2.421393e+01 2.403096e+01 2.402258e+01 2.595823e+01 2.430871e+01
## 458 2.349701e+01 2.049583e+01 2.349184e+01 3.014602e+01 2.394269e+01
## 459 -1.839205e+01 -7.431470e+00 -1.123446e+01 -8.800120e+00 -7.250551e+00
## 460 -1.611396e+00 -1.805486e+00 -1.548302e+00 1.256252e+00 -1.063456e+01
## 461 -1.725772e+00 -1.644679e+00 -1.438240e+00 1.750243e+00 -1.780280e+00
## 462 -2.552640e+00 -1.248940e+00 -1.012979e+00 -5.250726e+00 -2.583987e+00
## 463 -2.509119e+00 -6.706443e+00 -6.583498e+00 -6.179721e+00 -2.470242e+00
## 464 -2.738131e+00 -8.555864e+00 -8.343515e+00 -1.048487e+01 -2.737991e+00
## 465 -2.777736e+00 -1.098680e+01 -1.066344e+01 -1.277569e+01 -2.791016e+00
## 466 -2.777736e+00 -1.198680e+01 -1.166344e+01 -7.775691e+00 -2.791016e+00
## 467 -2.777736e+00 -9.986804e+00 -9.663440e+00 -4.775691e+00 -2.791016e+00
## 468 -3.526747e+00 -7.924507e+00 -8.264272e+00 -3.393246e+00 -3.599514e+00

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## 469 8.135817e+00 1.016100e+00 1.822450e+00 2.902992e+00 7.272367e+00
## 470 -5.986078e+00 -1.123773e+01 -1.090700e+01 -1.109553e+01 -5.242575e+00
## 471 -3.195894e+00 -9.083670e+00 -8.883408e+00 -1.180204e+01 -3.297170e+00
## 472 -2.355924e+00 -1.194942e+01 -1.131406e+01 -9.262291e+00 -2.200461e+00
## 473 -2.438265e+00 -9.409748e+00 -9.123041e+00 -8.744717e+00 -2.438273e+00
## 474 -2.134483e+00 -9.152074e+00 -8.793011e+00 -2.224377e+00 -2.077833e+00
## 475 -1.984419e+00 -4.993498e+00 -4.692704e+00 -1.207733e+00 -1.939814e+00
## 476 -2.595638e+00 -3.449367e+00 -3.482178e+00 -3.735465e+00 -2.745093e+00
## 477 -2.860078e+00 -4.447135e+00 -4.472423e+00 -7.258117e+00 -3.028827e+00
## 478 -3.353267e+00 -6.123290e+00 -6.242545e+00 -1.079279e+01 -3.603991e+00
## 479 -2.892112e+00 -8.825997e+00 -8.553378e+00 -3.281700e+00 -2.936731e+00
## 480 -1.062767e+01 -2.828228e+00 -2.563132e+00 -7.759048e+00 -2.652997e+00
## 481 -2.248858e+00 -6.991267e+00 -6.682949e+00 -6.730386e+00 -1.022355e+01
## 482 -2.173826e+00 -6.411979e+00 -6.132795e+00 -6.222064e+00 -2.154539e+00
## 483 -2.213169e+00 -5.671884e+00 -5.472580e+00 -9.219751e+00 -2.231244e+00
## 484 -2.785046e+00 -6.867847e+00 -6.922269e+00 -1.174980e+01 -2.959818e+00
## 485 -2.667016e+00 -9.088133e+00 -8.902917e+00 -7.756735e+00 -2.729702e+00
## 486 -2.667016e+00 -7.088133e+00 -6.902917e+00 -7.756735e+00 -2.729702e+00
## 487 -2.438265e+00 -7.409748e+00 -7.123041e+00 -7.744717e+00 -2.438273e+00
## 488 -2.363233e+00 -7.830460e+00 -7.572887e+00 -7.236395e+00 -2.369263e+00
## 489 -3.049485e+00 -5.865616e+00 -5.912515e+00 -1.127245e+01 -3.243552e+00
## 490 7.945267e+00 -4.433747e+00 -3.677858e+00 6.185197e+00 7.468415e+00
## 491 -4.830688e+00 -5.540824e+00 -5.161640e+00 -4.107720e+00 -4.082322e+00
## 492 -2.248858e+00 -1.991267e+00 -1.682949e+00 -3.730386e+00 -2.223548e+00
## 493 -1.905732e+00 -4.473689e+00 -4.013135e+00 -4.212360e+00 -1.786404e+00
## 494 -1.984419e+00 -4.993498e+00 -4.692704e+00 -3.207733e+00 -1.939814e+00
## 495 -2.441920e+00 -2.350269e+00 -2.252456e+00 -3.231769e+00 -2.522673e+00
## 496 -2.363233e+00 -2.830460e+00 -2.572887e+00 -4.236395e+00 -2.369263e+00
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## 498 -2.288201e+00 -2.251172e+00 -2.022733e+00 1.271927e+00 -2.300253e+00
## 499 -9.134483e+00 -1.520741e-01 2.069889e-01 4.775623e+00 -2.077833e+00
## 500 -2.974453e+00 3.713672e+00 3.637639e+00 3.235874e+00 -1.017454e+01
## 501 -2.738393e+00 -7.268994e-01 -3.236557e-01 1.221996e+00 -2.714311e+00
## 502 -2.395267e+00 -1.209321e+00 -6.538418e-01 1.740022e+00 -2.277166e+00
## 503 -2.245203e+00 -5.074520e-02 4.464657e-01 1.756666e+00 -2.139147e+00
## 504 -2.438265e+00 1.590252e+00 1.876959e+00 6.255283e+00 -2.438273e+00
## 505 -2.588329e+00 3.431677e+00 3.776652e+00 4.238639e+00 -2.576292e+00
## 506 -2.434611e+00 1.530774e+00 2.006374e+00 3.742335e+00 -2.353872e+00
## 507 -2.588329e+00 2.431677e+00 2.776652e+00 2.238639e+00 -2.576292e+00
## 508 -3.006487e+00 2.334810e+00 2.556684e+00 1.212291e+00 -3.082446e+00
## 509 5.616228e+00 6.806987e+00 7.202817e+00 1.619134e+01 4.982909e+00
## 510 -5.640749e+00 6.332508e+00 6.762061e+00 1.715514e+00 -5.053920e+00
## 511 -2.152896e+00 6.116756e+00 6.585791e+00 4.682699e+00 -2.136064e+00
## 512 -2.038521e+00 3.955949e+00 4.475729e+00 5.188708e+00 -1.990349e+00
## 513 -1.924146e+00 5.795142e+00 6.365667e+00 5.694717e+00 -1.844634e+00
## 514 -2.496022e+00 6.599178e+00 6.915978e+00 2.216467e+01 -1.573208e+00
## 515 2.273638e+01 2.121808e+01 2.182527e+01 2.566374e+01 -1.197378e+00
## 516 2.281141e+01 2.579737e+01 2.637542e+01 2.717206e+01 2.287163e+01
## 517 2.292579e+01 2.763657e+01 2.826536e+01 2.767807e+01 2.301735e+01
## 518 2.281141e+01 2.779737e+01 2.837542e+01 2.817206e+01 2.287163e+01
## 519 2.166766e+01 2.940545e+01 2.947604e+01 2.311198e+01 2.141448e+01
## 520 2.251860e+01 3.036126e+01 3.143364e+01 3.311288e+01 2.276440e+01
## 521 2.157370e+01 2.997729e+01 3.083954e+01 3.311885e+01 3.373057e+01
## 522 2.149501e+01 3.545748e+01 3.615998e+01 3.612348e+01 2.157716e+01

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## 523	2.257370e+01	2.297729e+01	2.383954e+01	2.711885e+01	2.273057e+01
## 524	2.072330e+01	2.647632e+01	2.636556e+01	1.892685e+01	2.019434e+01
## 525	-1.055032e+01	-7.801592e+00	-7.015758e+00	-5.859117e+00	-8.483043e+00
## 526	-2.761831e+00	4.750556e-02	8.895133e-01	3.757625e+00	-2.745617e+00
## 527	-2.683144e+00	-1.432685e+00	-4.309182e-01	3.752999e+00	-2.592206e+00
## 528	-2.797519e+00	-1.271878e+00	-3.208561e-01	4.246990e+00	-2.737921e+00
## 529	-2.797519e+00	-3.271878e+00	-2.320856e+00	1.246990e+00	-2.737921e+00
## 530	-3.358432e+00	-8.646277e+00	-7.382302e+00	-3.821899e+00	-3.213292e+00
## 531	4.356272e-01	1.582493e-01	1.156166e+00	6.248729e+00	-5.785425e-01
## 532	-3.622871e+00	-7.644045e+00	-6.372547e+00	-1.344551e+00	-3.497026e+00
## 533	-3.967514e+00	-2.393717e+00	-1.565409e+00	1.727994e+00	-3.978773e+00
## 534	-4.081889e+00	-4.232910e+00	-3.455347e+00	-7.780146e-01	-4.124488e+00
## 535	-4.081889e+00	-4.232910e+00	-3.455347e+00	-1.778015e+00	-4.124488e+00
## 536	-4.081889e+00	-4.232910e+00	-3.455347e+00	-3.778015e+00	-3.124488e+00
## 537	-4.081889e+00	-3.232910e+00	-2.455347e+00	-2.778015e+00	-3.124488e+00
## 538	-4.196265e+00	-4.072103e+00	-3.345285e+00	-3.284023e+00	-3.270203e+00
## 539	-3.931825e+00	-3.074334e+00	-2.355040e+00	-7.613708e-01	-2.986469e+00
## 540	-3.817450e+00	-2.235141e+00	-1.465102e+00	-2.553620e-01	-2.840754e+00
## 541	-4.310640e+00	8.870460e-02	1.764777e+00	2.209968e+00	-3.415917e+00
## 542	-4.196265e+00	-1.072103e+00	-3.452851e-01	1.715977e+00	-4.270203e+00
## 543	-4.121233e+00	-4.928147e-01	2.048686e-01	1.224298e+00	-3.201193e+00
## 544	-3.971169e+00	6.657613e-01	1.305176e+00	1.240942e+00	-3.063174e+00
## 545	-2.856793e+00	-1.495046e+00	-8.048860e-01	-2.530489e-01	-2.917459e+00
## 546	-2.305314e+00	-2.372966e+00	-1.590174e+00	1.811356e-01	-2.393683e+00
## 547	-2.380346e+00	-1.952254e+00	-1.140327e+00	6.728137e-01	-2.462692e+00
## 548	-2.419689e+00	-1.212159e+00	-4.801117e-01	6.751268e-01	-2.539398e+00
## 549	-2.534065e+00	-5.135137e-02	6.299504e-01	1.169118e+00	-2.685112e+00
## 550	-2.494721e+00	2.085534e-01	9.697346e-01	1.166805e+00	-2.608407e+00
## 551	-2.869619e+00	-1.516851e+00	-8.008931e-01	9.183283e-01	-2.977135e+00
## 552	-3.196265e+00	1.927897e+00	2.654715e+00	4.715977e+00	-3.270203e+00
## 553	-2.759161e+00	-7.892153e-01	-2.051082e-02	1.644152e+00	-2.892141e+00
## 554	-2.644785e+00	4.997748e-02	8.694272e-01	1.150161e+00	-2.746426e+00
## 555	-3.758694e+00	-1.678595e+00	-9.297788e-01	2.376601e-01	-3.790176e+00
## 556	-3.683662e+00	-4.099307e+00	-3.379625e+00	-3.254018e+00	-3.721167e+00
## 557	-3.758694e+00	-7.678595e+00	-6.929779e+00	-7.762340e+00	-3.790176e+00
## 558	-3.758694e+00	-7.678595e+00	-6.929779e+00	-5.762340e+00	-3.790176e+00
## 559	-3.833726e+00	-2.578832e-01	5.200675e-01	7.293382e-01	-3.859186e+00
## 560	-3.794383e+00	-1.997978e+00	-1.140148e+00	-2.729749e-01	-3.782480e+00
## 561	-4.023134e+00	-1.676364e+00	-9.200242e-01	-2.284993e+00	-4.073910e+00
## 562	-4.362605e+00	-3.253421e+00	-2.460423e+00	-4.315967e+00	-4.426654e+00
## 563	-4.023134e+00	6.323636e+00	7.079976e+00	6.715007e+00	-4.073910e+00
## 564	-3.869415e+00	4.422734e+00	5.309698e+00	7.218703e+00	-3.851490e+00
## 565	-3.833726e+00	4.742117e+00	5.520067e+00	6.729338e+00	-3.859186e+00
## 566	-3.494255e+00	2.319173e+00	3.060467e+00	3.760313e+00	-3.506442e+00
## 567	-3.154784e+00	1.896230e+00	2.600866e+00	3.791287e+00	-3.153699e+00
## 568	-3.383534e+00	1.217845e+00	1.820990e+00	7.792697e-01	-3.445128e+00
## 569	-3.869415e+00	-5.577266e+00	-4.690302e+00	-4.781297e+00	-3.851490e+00
## 570	-3.794383e+00	-5.997978e+00	-5.140148e+00	-4.272975e+00	-3.782480e+00
## 571	-3.680008e+00	-7.158786e+00	-6.250210e+00	-5.766966e+00	-3.636766e+00
## 572	-3.680008e+00	-4.158786e+00	-3.250210e+00	-1.766966e+00	-3.636766e+00
## 573	1.560536e+01	1.036772e+01	1.145862e+01	1.266045e+01	-4.334557e+00
## 574	1.556602e+01	1.110781e+01	1.211884e+01	1.366276e+01	1.558874e+01
## 575	1.564105e+01	9.687101e+00	1.066899e+01	1.317108e+01	1.565775e+01
## 576	1.605555e+01	1.084345e+01	1.175954e+01	1.371038e+01	1.607950e+01

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## 577 1.720562e+01 1.100202e+01 1.185985e+01 1.372703e+01 1.721752e+01
## 578 1.739502e+01 1.142050e+01 1.229994e+01 1.474136e+01 1.843224e+01
## 579 1.754509e+01 1.957908e+01 2.040025e+01 2.075800e+01 1.857026e+01
## 580 1.750575e+01 1.931917e+01 2.006047e+01 1.976031e+01 1.849356e+01
## 581 1.769515e+01 1.973765e+01 2.050056e+01 1.977464e+01 1.870828e+01
## 582 1.735568e+01 1.716060e+01 1.796016e+01 1.774367e+01 1.835554e+01
## 583 -9.349387e+00 -9.588846e+00 -8.483030e+00 -7.497341e+00 -7.591023e+00
## 584 -4.009186e+00 1.944585e+01 2.032376e+01 1.943999e+01 -3.089805e+00
## 585 -2.973498e+00 1.076524e+01 1.153413e+01 1.195062e+01 -3.097500e+00
## 586 -2.784090e+00 8.183717e+00 9.974220e+00 8.964951e+00 -2.882776e+00
## 587 -3.650303e+00 6.319551e+00 7.059696e+00 5.966295e+00 -3.763189e+00
## 588 -3.327574e+00 1.763246e+00 2.494533e+00 2.388462e+00 -3.530842e+00
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## 590 -3.549015e+00 -5.034097e+00 -4.026514e+00 -3.649452e+00 -3.653470e+00
## 591 -3.434640e+00 -6.194904e+00 -5.136576e+00 -3.143443e+00 -3.507755e+00
## 592 -3.473983e+00 -4.454809e+00 -3.476360e+00 -2.141130e+00 -3.584460e+00
## 593 -4.061151e+00 -5.896272e+00 -4.901442e+00 -4.085949e+00 -4.100541e+00
## 594 -4.183443e+00 -1.175569e+01 -1.011506e+01 -7.817234e+00 -4.153248e+00
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## 597 -4.321936e+00 -7.953519e+00 -6.762272e+00 -6.121550e+00 -4.299874e+00
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## 604 -4.211215e+00 -8.054848e+00 -7.001749e+00 -7.102593e+00 -4.238560e+00
## 605 -4.867827e+00 -2.366234e+00 -1.351794e+00 -2.914335e-01 -3.825096e+00
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## 608 -4.646648e+00 -7.739927e+00 -6.810889e+00 -5.546653e+00 -3.678788e+00
## 609 -3.532273e+00 -6.900735e+00 -5.920951e+00 -5.040644e+00 -3.533073e+00
## 610 -3.757369e+00 -6.638598e+00 -5.571412e+00 -5.565610e+00 -3.740102e+00
## 611 -3.532273e+00 -3.900735e+00 -2.920951e+00 -3.040644e+00 -3.533073e+00
## 612 -3.757369e+00 -2.638598e+00 -1.571412e+00 -1.565610e+00 -3.740102e+00
## 613 -3.607305e+00 -4.480022e+00 -3.471105e+00 -1.548966e+00 -3.602083e+00
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## 615 -2.757835e+00 -1.749218e+00 -6.621440e-01 -1.591176e-01 -2.842067e+00
## 616 -2.382675e+00 7.147221e+00 8.088625e+00 7.382492e+00 -2.497019e+00
## 617 -3.832401e+00 4.782114e+00 5.878434e+00 5.926068e+00 -3.809111e+00
## 618 -2.271954e+00 2.045893e+00 2.849148e+00 4.014489e-01 -1.435705e+00
## 619 -3.496584e+00 -5.813513e-01 2.894186e-01 -5.300089e-01 -2.540769e+00
## 620 -3.532273e+00 -2.900735e+00 -1.920951e+00 -1.040644e+00 -2.533073e+00
## 621 -3.607305e+00 -2.480022e+00 -1.471105e+00 -1.548966e+00 -2.602083e+00
## 622 -3.832401e+00 -1.217886e+00 -1.215657e-01 9.260684e-01 -2.809111e+00
## 623 -3.836055e+00 2.841592e+00 3.749019e+00 2.439017e+00 -2.893512e+00
## 624 -3.871744e+00 1.522209e+00 2.538650e+00 1.928382e+00 -2.885817e+00
## 625 -4.021808e+00 3.636329e-01 1.438343e+00 9.117377e-01 -3.023836e+00
## 626 -4.357625e+00 -5.272902e+00 -3.972642e+00 -3.632185e+00 -3.292178e+00
## 627 -4.432657e+00 -5.852190e+00 -4.522796e+00 -4.140507e+00 -3.361188e+00
## 628 -3.395297e+00 2.065001e+00 3.203209e+00 4.854244e+00 -2.431050e+00
## 629 -3.434640e+00 8.050962e-01 1.863424e+00 2.856557e+00 -3.507755e+00
## 630 -3.473983e+00 1.545191e+00 2.523640e+00 2.858870e+00 -2.584460e+00

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## 631 -3.434640e+00 -1.194904e+00 -1.365757e-01 1.856557e+00 -2.507755e+00
## 632 -3.774111e+00 -2.771960e+00 -1.676975e+00 -1.744174e-01 -2.860499e+00
## 633 -3.809800e+00 -3.091344e+00 -1.887344e+00 -6.850524e-01 -2.852803e+00
## 634 -3.809800e+00 -3.091344e+00 -1.887344e+00 -6.850524e-01 -2.852803e+00
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## 636 -3.659736e+00 -2.932768e+00 -1.787037e+00 3.315914e-01 -2.714784e+00
## 637 -3.659736e+00 -2.932768e+00 -1.787037e+00 1.331591e+00 -2.714784e+00
## 638 -3.999207e+00 1.490176e+00 2.672564e+00 4.300617e+00 -3.067527e+00
## 639 -4.171872e+00 -3.794943e+00 -2.661965e+00 -1.104906e+00 -3.161855e+00
## 640 -2.849143e+00 -4.351248e+00 -3.227129e+00 -2.682739e+00 -2.929508e+00
## 641 -2.813454e+00 -3.031865e+00 -2.016759e+00 -2.172104e+00 -2.937204e+00
## 642 -2.813454e+00 -3.031865e+00 -2.016759e+00 -2.172104e+00 -2.937204e+00
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## 645 -4.038084e+00 -3.659109e+00 -2.576488e+00 -3.103562e+00 -3.042268e+00
## 646 2.218655e+01 2.196813e+01 2.298324e+01 2.182790e+01 -1.937204e+00
## 647 2.207217e+01 3.112894e+01 3.209330e+01 3.032189e+01 2.291708e+01
## 648 2.173635e+01 2.349241e+01 2.468232e+01 2.477796e+01 2.264874e+01
## 649 2.218655e+01 2.496813e+01 2.598324e+01 2.582790e+01 2.306280e+01
## 650 2.111198e+01 2.449947e+01 2.552382e+01 2.591308e+01 2.209575e+01
## 651 2.211198e+01 2.349947e+01 2.452382e+01 2.391308e+01 2.209575e+01
## 652 2.211198e+01 2.049947e+01 2.152382e+01 2.191308e+01 2.209575e+01
## 653 2.192623e+01 1.702151e+01 1.821314e+01 1.938580e+01 2.196543e+01
## 654 2.235968e+01 2.036387e+01 2.140850e+01 2.082693e+01 2.225909e+01
## 655 2.247405e+01 2.220307e+01 2.329844e+01 2.333294e+01 2.240480e+01
## 656 -1.092604e+01 -1.387856e+01 -1.239309e+01 -1.109541e+01 -8.795652e+00
## 657 -3.533109e+00 -4.999787e+00 -3.473560e+00 -2.116135e+00 -3.608071e+00
## 658 -3.347357e+00 -4.521828e+00 -3.162883e+00 -3.588857e+00 -3.477747e+00
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## 663 -4.086106e+00 -3.353961e+00 -2.211321e+00 -1.959748e+00 -3.176449e+00
## 664 -4.046762e+00 -3.094056e+00 -1.871537e+00 -9.620610e-01 -2.099744e+00
## 665 -3.196826e+00 -3.252632e+00 -1.971844e+00 -9.787049e-01 -2.237763e+00
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## 667 -3.536298e+00 -4.829688e+00 -3.512243e+00 -4.009679e+00 -2.590507e+00
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## 670 -3.024161e+00 -9.675130e-01 3.626849e-01 1.426818e+00 -2.143436e+00
## 671 -3.063505e+00 3.772582e+00 5.022901e+00 4.429131e+00 -2.220141e+00
## 672 -2.949129e+00 2.611775e+00 3.912839e+00 3.935140e+00 -3.074426e+00
## 673 -2.913441e+00 2.931158e+00 4.123208e+00 2.445775e+00 -2.082122e+00
## 674 -2.665744e+00 -3.204435e+00 -1.992109e+00 -1.640380e+00 -1.918785e+00
## 675 -4.004749e+00 -6.708718e-01 5.582235e-01 -7.784673e-02 -3.169563e+00
## 676 -4.004749e+00 -1.670872e+00 -4.417765e-01 -1.077847e+00 -3.169563e+00
## 677 -3.890374e+00 -3.831679e+00 -2.551838e+00 -5.718379e-01 -4.023848e+00
## 678 -3.890374e+00 -3.831679e+00 -2.551838e+00 -5.718379e-01 -3.023848e+00
## 679 -4.269188e+00 4.331359e+00 5.567978e+00 5.399501e+00 -3.453297e+00
## 680 -4.229845e+00 2.591264e+00 3.907762e+00 3.397188e+00 -3.376592e+00
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## 683 -4.151158e+00 -6.888926e+00 -5.412669e+00 -4.607439e+00 -3.223181e+00
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## 685 -4.115470e+00 -4.569543e+00 -3.202300e+00 -2.096804e+00 -3.230877e+00
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## 689 -4.680037e+00 1.115536e+00 2.606840e+00 2.347256e+00 -3.790649e+00
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## 691 -4.379909e+00 -5.673116e-01 8.074549e-01 3.380544e+00 -4.514611e+00
## 692 7.920219e+00 1.274984e+01 8.069801e-03 -2.586169e+00 -3.238573e+00
## 693 5.109626e+00 9.168321e+00 4.481615e-01 -1.571838e+00 7.976152e+00
## 694 -3.265534e+00 -1.728119e+00 -3.302607e+00 -4.113447e+00 4.631104e+00
## 695 -6.079781e+00 -2.250160e+00 8.069801e-03 -2.586169e+00 -3.238573e+00
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## 698 -4.340566e+00 -3.307407e+00 -3.852761e+00 -4.621769e+00 -5.437906e+00
## 699 4.359306e+00 4.375441e+00 -6.053376e+00 -6.655057e+00 -4.713944e+00
## 700 6.734466e+00 8.271881e+00 -2.302607e+00 -4.113447e+00 4.631104e+00
## 701 4.993580e+00 5.731320e+00 -2.957411e+00 -6.561963e+00 5.892603e+00
## 702 1.391132e+00 1.429898e+00 -1.669554e+01 -1.730600e+01 -8.863022e+00
## 703 7.891489e+00 9.695745e+00 1.206590e+01 1.228855e+01 8.450197e+00
## 704 1.927298e+01 2.021853e+01 2.085719e+01 2.049326e+01 1.650178e+01
## 705 2.268083e+01 2.331408e+01 2.069653e+01 2.106432e+01 2.047712e+01
## 706 2.159409e+01 2.186121e+01 1.941238e+01 1.921850e+01 2.159732e+01
## 707 2.229051e+01 2.254312e+01 1.819295e+01 1.799853e+01 2.036253e+01
## 708 7.134927e+01 7.609967e+01 1.772827e+01 1.649155e+01 2.141310e+01
## 709 7.490019e+01 7.924962e+01 6.868232e+00 6.643219e+00 6.047928e+01
## 710 3.531615e+01 3.572848e+01 8.322517e+00 8.582118e+00 7.528357e+01
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## 712 -9.357303e+00 -5.577769e+00 -3.117108e+00 -2.904542e+00 -3.778997e+00
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## 716 -9.572745e+00 -6.126461e+00 -5.182223e+00 -6.510149e+00 -6.695935e+00
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## 719 -8.128901e+01 -7.109004e+01 -6.555282e+01 -6.745839e+01 -7.755719e+01
## 720 -2.410692e+01 -1.155638e+01 -8.653107e+00 -9.873199e+00 -2.841512e+01
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## 723 -7.315260e+00 -5.821608e+00 -4.018014e+00 -5.251909e+00 -8.206312e+00
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## 726 -4.665147e+00 -3.446094e+00 -7.046155e-01 -1.330291e+00 -3.946995e+00
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## 771 -2.315260e+00 1.783923e-01 -3.018014e+00 -4.251909e+00 -4.206312e+00
## 772 -9.451666e+00 -5.411811e+00 -9.145048e+00 -1.043654e+01 -9.097357e+00
## 773 -3.525610e+00 -1.045319e-01 -3.218005e+00 -3.955142e+00 -3.869165e+00
## 774 1.661761e+00 4.280193e+00 8.199176e-01 1.651939e-01 1.322392e+00
## 775 1.634818e+00 3.392563e+00 -1.991437e-02 -5.943286e-01 1.574774e+00
## 776 2.331411e-01 2.258024e+00 -1.144602e-01 -1.305002e+00 1.212698e+00
## 777 -1.030832e+00 1.370875e+00 -1.013974e+00 -2.234147e+00 -9.690714e-01
## 778 -7.803862e+00 -4.336000e+00 -5.477257e+00 -6.112512e+00 -5.493145e+00
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## 780 2.839393e+00 6.674718e+00 2.588688e+00 2.458514e+00 -1.709772e+00
## 781 -5.218465e+00 -2.184885e+00 -6.032037e+00 -6.647616e+00 -5.136948e+00
## 782 -6.126121e-01 1.271564e+00 -5.482290e+00 -6.094102e+00 -4.725280e+00
## 783 -1.573007e+00 1.702504e+00 -4.162364e+00 -4.803282e+00 -6.722550e-01
## 784 -3.573007e+00 -5.297496e+00 -3.162364e+00 -3.803282e+00 -1.672255e+00
## 785 -3.573007e+00 -6.297496e+00 -3.162364e+00 -2.803282e+00 -1.672255e+00
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## 787 -2.592157e+00 -5.423102e+00 -4.377762e+00 -4.005485e+00 -2.669808e+00
## 788 -2.460621e-02 -3.217865e+00 -2.258810e+00 -1.856375e+00 7.467549e-01
## 789 -6.700638e-01 -3.105254e+00 8.715172e-01 1.299291e+00 1.282062e+00
## 790 -3.580799e+00 -8.059520e+00 -1.786799e+00 -1.360603e+00 -4.223197e-01
## 791 -2.612612e+00 -3.728436e+00 2.851771e+01 2.890590e+01 2.827472e+01
## 792 -7.787320e+00 -9.569851e+00 -1.040119e+00 -6.831408e-01 1.388570e+00

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## 793 -9.267858e+00 -1.105627e+01 -2.631489e+00 -2.282831e+00 -5.162591e-01
## 794 -7.820831e+00 -6.857436e+00 -4.258050e+00 -4.028471e+00 -5.029879e+00
## 795 -7.895601e+00 -8.265689e+00 -4.828063e+00 -5.243660e+00 -6.122569e+00
## 796 -7.966455e+00 -8.562385e+00 -4.288520e+00 -4.678664e+00 -4.154539e+00
## 797 -9.470205e+00 -8.856382e+00 -5.237279e+00 -5.652989e+00 -5.555293e+00
## 798 -1.014748e+01 -9.412688e+00 -6.802442e+00 -7.230823e+00 -7.322946e+00
## 799 -1.000606e+01 -9.993325e+00 -9.608445e+00 -8.969484e+00 -8.207564e+00
## 800 -1.062040e+01 -1.071049e+01 -1.054859e+01 -1.098098e+01 -1.088760e+01
## 801 -2.730183e+00 -2.881951e+00 -5.009575e+00 -5.340324e+00 -4.004526e+00
## 802 -6.904942e+00 -6.503596e+00 4.996641e-01 1.003760e-01 3.364919e-01
## 803 -3.839837e+00 -3.412628e+00 -4.410126e-01 -8.384247e-01 -5.897805e-01
## 804 -4.657832e+00 -5.889602e+00 -2.434211e+00 -2.776938e+00 -1.954514e+00
## 805 -4.865923e+00 -4.323069e+00 -4.998968e+00 -5.399963e+00 -5.064827e+00
## 806 -4.255893e+00 -4.584028e+00 -4.359524e+00 -4.773131e+00 -5.616118e+00
## 807 -4.279222e+00 -3.992226e+00 -5.664619e+00 -6.048651e+00 -5.650711e+00
## 808 -3.550247e+00 -4.264830e+00 -4.854396e+00 -5.238016e+00 -4.848641e+00
## 809 -3.916498e+00 -3.251022e+00 -4.718713e+00 -5.731188e+00 -5.194733e+00
## 810 -3.372548e+00 -3.719931e+00 -1.148294e+00 -1.561190e+00 -1.444702e+00
## 811 -3.124851e+00 -3.855524e+00 -2.636112e-01 -6.473456e-01 -2.281365e+00
## 812 -3.146290e+00 -3.833581e+00 -8.610182e-01 -1.245292e+00 -2.803695e+00
## 813 -2.279222e+00 -2.992226e+00 8.335381e+00 7.951349e+00 6.349289e+00
## 814 -4.526918e+00 -3.856632e+00 -2.549301e+00 -2.962496e+00 -2.814048e+00
## 815 -5.428430e+00 -5.173613e+00 -4.483050e+00 -4.867310e+00 -4.516158e+00
## 816 -5.711553e+00 -5.186367e+00 -4.597961e+00 -4.998657e+00 -3.695480e+00
## 817 -5.699456e+00 -5.446217e+00 -2.672827e+00 -3.056675e+00 -2.714088e+00
## 818 -5.659850e+00 -5.015277e+00 -2.352902e+00 -2.765855e+00 -3.661064e+00
## 819 -5.699456e+00 -4.446217e+00 -2.672827e+00 -3.056675e+00 -3.714088e+00
## 820 -5.814220e+00 -5.151979e+00 -3.753909e+00 -4.167161e+00 -5.030410e+00
## 821 -6.172376e+00 -6.744022e+00 -4.418974e+00 -4.806830e+00 -6.278741e+00
## 822 -6.172376e+00 -6.744022e+00 -4.418974e+00 -4.806830e+00 -8.278741e+00
## 823 -5.890236e+00 -5.403990e+00 -7.796942e+00 -8.184811e+00 -7.566278e+00
## 824 -3.837549e+00 -3.560177e+00 -1.059003e+00 -1.442681e+00 -1.065003e+00
## 825 -5.124851e+00 -3.855524e+00 -3.263611e+00 -3.647346e+00 -3.281365e+00
## 826 -4.802123e+00 -4.411829e+00 -4.828775e+00 -5.225179e+00 -6.049018e+00
## 827 -3.533971e+00 -3.242088e+00 -4.839565e+00 -5.222716e+00 -4.830209e+00
## 828 -2.856700e+00 -2.685783e+00 -3.274401e+00 -3.644883e+00 -4.062556e+00
## 829 -2.896305e+00 -3.116723e+00 -5.943263e-01 -9.357029e-01 -2.115580e+00
## 830 -3.144002e+00 -2.981130e+00 1.520991e+00 1.150452e+00 -2.789174e-01
## 831 -3.427126e+00 -2.993884e+00 4.406080e+00 4.019105e+00 1.541761e+00
## 832 -4.001730e+00 -4.584578e+00 9.968643e-01 6.097757e-01 1.090369e-01
## 833 -6.669031e-01 -1.400733e+00 1.235683e+01 1.197392e+01 9.322776e+00
## 834 -2.550247e+00 -2.264830e+00 -8.543956e-01 -1.238016e+00 1.513592e-01
## 835 -8.608784e-01 3.162473e-02 1.063590e+01 1.028180e+01 9.900404e+00
## 836 -7.186061e-01 -5.718233e-01 1.611178e+01 1.574112e+01 1.428836e+01
## 837 3.168207e-01 -4.234754e-01 1.934200e+01 1.895862e+01 1.730434e+01
## 838 -1.734882e+00 -1.594565e+00 6.096945e+00 5.725823e+00 5.269927e+00
## 839 -1.195705e+00 -1.152220e+00 5.275932e+00 4.917650e+00 2.686666e+00
## 840 -6.211009e-01 -5.615262e-01 5.685147e+00 5.326980e+00 4.119390e+00
## 841 -1.081924e+00 -2.119181e+00 8.641345e-01 5.188076e-01 -4.638715e-01
## 842 -3.258767e+00 -2.686891e+00 -4.560091e+00 -4.960033e+00 -5.595239e+00
## 843 -1.638361e+00 -1.256991e+00 3.177437e+00 2.802352e+00 3.634099e+00
## 844 -1.531097e+00 -1.139225e+00 4.361002e+00 3.964186e+00 4.148912e+00
## 845 -3.594155e-01 -1.526828e+00 5.202652e+00 4.860381e+00 4.776381e+00
## 846 -2.223052e-01 -2.085591e+00 4.095949e+00 3.737058e+00 3.660436e+00

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## 847 -6.243721e-01 -8.669961e-02 -1.897413e-01 -5.780922e-01 -1.872247e+00
## 848 -3.485295e+00 -2.300017e+00 -3.310685e+00 -3.682758e+00 -4.054474e+00
## 849 -4.418054e+00 -4.482753e+00 -4.384966e+00 -4.731757e+00 -4.735529e+00
## 850 -4.095325e+00 -5.039059e+00 -1.950129e+00 -2.309590e+00 -3.503182e+00
## 851 -4.188652e+00 -5.766764e+00 -4.338047e-01 -8.221293e-01 -2.297173e+00
## 852 -3.022184e+00 -4.889912e+00 -1.076632e-01 -4.788420e-01 -1.946435e+00
## 853 -2.720894e+00 -4.424274e+00 -1.270234e+00 -1.654621e+00 -3.236419e+00
## 854 -4.737170e+00 -5.447016e+00 -3.285065e+00 -3.669921e+00 -5.254851e+00
## 855 -3.732991e+00 -5.164424e+00 1.180463e+01 1.140340e+01 1.078219e+01
## 856 -2.998069e+01 -3.002883e+01 -2.208005e+01 -2.251045e+01 -2.538115e+01
## 857 -3.153184e+01 -3.451579e+01 -2.497317e+01 -2.533291e+01 -2.658499e+01
## 858 -3.151974e+01 -3.377564e+01 -3.004803e+01 -3.039093e+01 -3.160360e+01
## 859 -3.148013e+01 -3.234470e+01 -3.172811e+01 -3.210011e+01 -3.355058e+01
## 860 -3.218865e+01 -3.276676e+01 -3.243380e+01 -3.282213e+01 -3.429717e+01
## 861 -3.186174e+01 -3.204048e+01 -3.390927e+01 -3.432664e+01 -3.502779e+01
## 862 -3.214905e+01 -3.233582e+01 -3.111388e+01 -3.153131e+01 -3.324415e+01
## 863 -3.243635e+01 -3.263117e+01 -3.031849e+01 -3.073597e+01 -3.246051e+01
## 864 -3.145968e+01 -3.103937e+01 -2.462358e+01 -2.501149e+01 -2.749510e+01
## 865 -2.809139e+01 -2.805262e+01 -2.601914e+01 -2.644850e+01 -2.819910e+01
## 866 -3.651690e+00 -5.142433e+00 2.539999e+00 2.176823e+00 1.031519e+00
## 867 -3.537052e+00 -3.132205e+00 -1.589922e+00 -2.024035e+00 -3.846447e+00
## 868 -3.996891e+00 -5.017137e+00 -3.918055e+00 -4.322879e+00 -5.962849e+00
## 869 -4.611101e+00 -6.038770e+00 -2.647196e+00 -3.023028e+00 -4.448597e+00
## 870 -4.594825e+00 -4.016028e+00 -5.632365e+00 -6.007729e+00 -6.430166e+00
## 871 -4.846700e+00 -5.163027e+00 -6.606745e+00 -6.994891e+00 -7.630543e+00
## 872 -4.307523e+00 -4.720682e+00 -6.427757e+00 -6.803064e+00 -6.213804e+00
## 873 -4.020220e+00 -4.425335e+00 -5.223150e+00 -5.598399e+00 -5.997442e+00
## 874 -2.946044e+00 -2.823236e+00 1.045128e+00 7.119382e-01 -2.010038e-01
## 875 -3.732918e+00 -3.129988e+00 -2.018542e+00 -2.393734e+00 -3.781080e+00
## 876 -3.560381e+00 -3.540403e+00 -1.895016e+00 -2.299555e+00 -3.881040e+00
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## 878 -4.571496e+00 -3.607830e+00 6.727291e-01 2.677914e-01 -3.955727e-01
## 879 -3.996891e+00 -4.017137e+00 6.081945e+00 5.677121e+00 4.037151e+00
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## 881 -4.846700e+00 -4.163027e+00 1.393255e+00 1.005109e+00 -1.630543e+00
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## 883 -3.559398e+00 -3.867681e+00 -4.021368e-01 -7.902267e-01 -2.414181e+00
## 884 -2.197920e+00 -2.970235e+00 1.070749e+00 7.247754e-01 -4.013809e-01
## 885 -3.059826e+00 -1.856275e+00 4.456925e+00 4.110781e+00 3.949533e+00
## 886 -2.020220e+00 -4.253350e-01 5.776850e+00 5.401601e+00 4.002558e+00
## 887 8.825409e+00 3.437963e+00 2.837584e+01 2.800030e+01 2.663321e+01
## 888 1.410853e+01 1.045072e+01 3.114908e+02 3.111316e+02 3.088125e+02
## 889 1.026192e+01 4.914697e+00 3.739888e+01 3.702362e+01 3.971502e+01
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## 891 -2.523335e+01 -2.911858e+01 -2.815948e+01 -2.849273e+01 -2.941737e+01
## 892 -2.732380e+01 -3.074342e+01 -3.244259e+01 -3.281836e+01 -3.223224e+01
## 893 -2.674919e+01 -3.015273e+01 -2.003337e+01 -2.040903e+01 -2.079951e+01
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## 897 -3.386235e+01 -3.025004e+01 1.386662e+01 1.334077e+01 9.922581e+00
## 898 3.852430e+01 4.043707e+01 1.359875e+01 1.315728e+01 1.764063e+01
## 899 -3.527302e+01 -3.211249e+01 -3.575718e+01 -3.633325e+01 -3.741714e+01
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## 901 -1.269254e+01 -1.081358e+01 -1.175553e+01 -1.220800e+01 -1.229831e+01
## 902 -1.290898e+01 -1.181223e+01 -1.049968e+01 -1.097766e+01 -1.148271e+01
## 903 -9.784089e+00 -8.711763e+00 -6.479221e+00 -6.943852e+00 -7.118710e+00
## 904 -8.383006e+00 -7.383377e+00 -5.686410e+00 -6.138030e+00 -6.052885e+00
## 905 -6.509909e+00 -5.514606e+00 -3.362261e+00 -3.750300e+00 -3.467811e+00
## 906 -4.839691e+00 -4.343757e+00 -2.087361e+00 -2.432687e+00 -1.716318e+00
## 907 9.151810e+00 1.035536e+01 1.244040e+01 1.314897e+01 1.602231e+01
## 908 -1.483706e+00 -1.003544e+00 1.414340e+01 1.371212e+01 1.354590e+01
## 909 -3.549515e+00 -1.945546e+00 7.317814e+00 6.958880e+00 6.479164e+00
## 910 -1.229660e+00 -1.604715e+00 1.552084e+00 1.194145e+00 1.732390e+00
## 911 -5.006860e-01 -1.877320e+00 3.623066e-01 4.779680e-03 5.344602e-01
## 912 -1.737787e-01 -1.510333e-01 2.886840e+00 2.500264e+00 1.803847e+00
## 913 4.008253e-01 -5.603398e-01 2.296055e+00 1.909594e+00 2.236571e+00
## 914 4.008253e-01 -5.603398e-01 2.296055e+00 2.909594e+00 1.236571e+00
## 915 -1.638780e+00 -1.991280e+00 -1.023870e+00 -1.381226e+00 -8.164542e-01
## 916 -1.638780e+00 -2.991280e+00 -2.023870e+00 -2.381226e+00 -2.816454e+00
## 917 -8.841002e+00 -9.079226e+00 -1.045967e+01 -1.143280e+01 -1.061615e+01
## 918 -7.281760e+00 -7.198115e+00 -7.367298e+00 -7.756827e+00 -8.314542e+00
## 919 -2.775153e+01 -2.757137e+01 -1.118626e+01 -1.150279e+01 -1.042623e+01
## 920 -3.064800e+01 -2.962857e+01 -2.974844e+01 -3.013631e+01 -2.981873e+01
## 921 -3.218300e+01 -3.078832e+01 -3.083773e+01 -3.125482e+01 -3.219842e+01
## 922 -3.197073e+01 -3.107226e+01 -3.018327e+01 -3.055847e+01 -3.005107e+01
## 923 -3.289570e+01 -3.049297e+01 -3.163312e+01 -3.205015e+01 -3.098206e+01
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## 927 -3.074838e+01 -2.874173e+01 -2.852238e+01 -2.890907e+01 -2.862888e+01
## 928 -3.049651e+01 -2.859473e+01 -2.754800e+01 -2.792190e+01 -2.742850e+01
## 929 -9.386205e-01 9.847286e-01 4.011868e-01 5.594176e-02 1.871340e+00
## 930 -4.806479e+00 -3.013424e+00 -5.062315e+00 -5.408060e+00 -3.788380e+00
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## 933 -2.490803e+00 -9.551855e-01 8.225759e-02 -2.461134e-01 4.278054e-01
## 934 -2.813532e+00 -1.398880e+00 6.474213e-01 3.317198e-01 1.954587e-01
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## 938 -1.238928e+00 -8.081867e-01 7.056637e+00 6.741049e+00 7.628182e+00
## 939 -9.161987e-01 -3.644920e-01 5.491473e+00 5.163216e+00 5.860529e+00
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## 942 -2.526230e+00 -2.103533e+00 -3.147971e+00 -3.463615e+00 -2.588179e+00
## 943 -2.238928e+00 -1.808187e+00 -2.943363e+00 -3.258951e+00 -2.371818e+00
## 944 -2.274354e+00 -1.956535e+00 -2.173592e+00 -2.476453e+00 -1.387802e+00
## 945 -2.848958e+00 -2.547228e+00 -4.582807e+00 -4.885782e+00 -2.820526e+00
## 946 -3.348530e+00 -2.558634e+00 -5.441869e+00 -5.786790e+00 -4.184240e+00
## 947 -2.990375e+00 -1.966591e+00 -5.776804e+00 -6.147121e+00 -4.935909e+00
## 948 -1.491786e+00 -6.279081e-01 -4.410622e+00 -4.755442e+00 -3.039053e+00
## 949 -1.066390e+00 -2.186016e-01 5.180163e+00 4.835229e+00 4.528223e+00
## 950 -3.065407e+00 -2.545879e+00 -5.326958e+00 -5.655443e+00 -4.004918e+00
## 951 -3.313104e+00 -2.410286e+00 -5.211641e+00 -5.569288e+00 -5.168255e+00
## 952 -3.061228e+00 -2.263287e+00 -5.237261e+00 -5.582125e+00 -4.967878e+00
## 953 -3.061228e+00 -2.263287e+00 -6.237261e+00 -6.582125e+00 -4.967878e+00
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## 958 -3.313104e+00 -2.410286e+00 -4.211641e+00 -4.569288e+00 -4.168255e+00
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## 961 -3.635833e+00 -2.853980e+00 -3.646477e+00 -3.991455e+00 -3.400602e+00
## 962 -3.635833e+00 -2.853980e+00 -3.646477e+00 -3.991455e+00 -3.400602e+00
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## 968 -4.348530e+00 -2.558634e+00 -3.441869e+00 -3.786790e+00 -3.184240e+00
## 969 -4.207114e+00 -3.139271e+00 -3.247872e+00 -3.525451e+00 -2.068858e+00
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## 971 -3.061228e+00 -2.263287e+00 -3.237261e+00 -3.582125e+00 -3.967878e+00
## 972 -3.061228e+00 -2.263287e+00 -4.237261e+00 -4.582125e+00 -3.967878e+00
## 973 -2.773926e+00 -1.967940e+00 -4.032654e+00 -4.377460e+00 -3.751517e+00
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## 975 -3.061228e+00 -2.263287e+00 -4.237261e+00 -4.582125e+00 -4.967878e+00
## 976 -1.797255e+00 -1.376138e+00 -3.337748e+00 -3.652980e+00 -3.786109e+00
## 977 -2.119984e+00 -1.819833e+00 -3.772584e+00 -4.075147e+00 -4.018456e+00
## 978 -1.797255e+00 -1.376138e+00 -3.337748e+00 -3.652980e+00 -3.786109e+00
## 979 3.490047e+00 2.919209e+00 8.668599e-01 5.516844e-01 1.430252e+00
## 980 2.202745e+00 2.623862e+00 2.662252e+00 2.347020e+00 3.213891e+00
## 981 6.160427e-01 1.293019e+00 1.327902e+00 9.957081e-01 7.997749e-01
## 982 6.514695e-01 1.441366e+00 2.558131e+00 2.213210e+00 1.815760e+00
## 983 6.514695e-01 1.441366e+00 1.558131e+00 1.213210e+00 8.157597e-01
## 984 6.514695e-01 1.441366e+00 1.558131e+00 1.213210e+00 8.157597e-01
## 985 -6.712593e-01 9.976718e-01 1.232945e-01 -2.089567e-01 -4.165870e-01
## 986 -6.712593e-01 9.976718e-01 1.232945e-01 -2.089567e-01 -4.165870e-01
## 987 -6.712593e-01 9.976718e-01 1.232945e-01 -2.089567e-01 -4.165870e-01
## 988 -6.712593e-01 9.976718e-01 -8.767055e-01 -1.208957e+00 -1.416587e+00
## 989 -5.677608e+00 -3.536750e+00 -5.400706e+00 -5.777134e+00 -6.439737e+00
## 990 -3.839031e+00 -2.058908e+00 -3.091977e+00 -3.438660e+00 -3.825244e+00
## 991 -3.161760e+00 -2.502603e+00 -1.526813e+00 -1.860826e+00 -2.057591e+00
## 992 -2.874458e+00 -2.207256e+00 -2.322205e+00 -2.656162e+00 -2.841229e+00
## 993 -3.161760e+00 -2.502603e+00 -5.268131e-01 -8.608264e-01 -2.057591e+00
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## 995 -3.185089e+00 -1.910801e+00 -2.831908e+00 -3.136346e+00 -3.092184e+00
## 996 -3.185089e+00 -1.910801e+00 -1.831908e+00 -2.136346e+00 -2.092184e+00
## 997 -3.185089e+00 -1.910801e+00 -1.831908e+00 -2.136346e+00 -3.092184e+00
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## 1000 -2.185089e+00 -1.910801e+00 -1.831908e+00 -2.136346e+00 -2.092184e+00
## 1001 -2.874458e+00 -2.207256e+00 3.677795e+00 3.343838e+00 2.158771e+00
## 1002 -5.316176e+01 -5.250260e+01 -3.752681e+01 -3.786083e+01 -3.905759e+01
## 1003 -5.290988e+01 -5.235560e+01 -4.855243e+01 -4.887366e+01 -4.985721e+01
## 1004 -5.218509e+01 -5.191080e+01 -5.083191e+01 -5.113635e+01 -5.109218e+01
## 1005 -5.218509e+01 -5.191080e+01 -5.083191e+01 -5.113635e+01 -5.209218e+01
## 1006 -5.189779e+01 -5.061545e+01 -4.862730e+01 -4.893168e+01 -4.987582e+01
## 1007 -5.222052e+01 -5.105915e+01 -4.506214e+01 -4.535385e+01 -4.610817e+01
## 1008 -5.122052e+01 -5.005915e+01 -3.906214e+01 -3.935385e+01 -4.110817e+01

```

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## 1009 -5.064591e+01 -4.946846e+01 -5.065292e+01 -5.094452e+01 -5.067544e+01
## 1010 -1.371618e+02 -1.455026e+02 -1.365268e+02 -1.368608e+02 -1.360576e+02
## 1011 -1.357607e+02 -1.391742e+02 -1.087340e+02 -1.090550e+02 -1.069918e+02
## 1012 -8.236115e+01 -8.537900e+01 -9.615099e+01 -9.644803e+01 -9.812291e+01
## 1013 -9.052147e+01 -9.662781e+01 -1.034017e+02 -1.036993e+02 -1.045029e+02
## 1014 -9.606065e+01 -9.407016e+01 -1.055807e+02 -1.058912e+02 -1.069196e+02
## 1015 -9.638338e+01 -9.951385e+01 -1.080155e+02 -1.083133e+02 -1.091520e+02
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## 1017 -9.969917e+01 -9.817271e+01 -1.071078e+02 -1.073762e+02 -1.089068e+02
## 1018 -9.960166e+01 -1.001624e+02 -1.075344e+02 -1.077903e+02 -1.090758e+02
## 1019 -1.024038e+02 -1.028192e+02 -1.091200e+02 -1.094020e+02 -1.112075e+02
## 1020 -1.630157e+01 -1.113302e+01 -1.922532e+01 -1.977110e+01 -2.387815e+01
## 1021 -9.419715e+00 -6.869666e+00 -1.486570e+01 -1.527709e+01 -1.806915e+01
## 1022 -2.420271e+01 -2.145831e+01 -2.478936e+01 -2.515235e+01 -2.765301e+01
## 1023 -1.967979e+01 -1.460809e+01 -1.832059e+01 -1.878122e+01 -2.216943e+01
## 1024 -1.405334e+01 -1.205586e+01 -1.519202e+01 -1.541729e+01 -1.685239e+01
## 1025 -1.442992e+01 -1.049185e+01 -1.400161e+01 -1.437252e+01 -1.701999e+01
## 1026 -1.096073e+01 -8.274102e+00 -1.173790e+01 -1.200725e+01 -1.370703e+01
## 1027 -8.432783e+00 -6.499805e+00 -9.938874e+00 -1.014896e+01 -1.134349e+01
## 1028 -8.353572e+00 -5.637925e+00 -9.299024e+00 -9.567320e+00 -1.123744e+01
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## 1030 -7.089599e+00 -4.750776e+00 -3.399510e+00 -4.638175e+00 -6.055670e+00
## 1031 -7.746416e+00 -5.001747e+00 -4.860147e+00 -3.127391e+00 -4.767851e+00
## 1032 -6.178864e+00 -3.796510e+00 -2.741195e+00 -9.782814e-01 -2.351289e+00
## 1033 -4.914891e+00 -2.909361e+00 -1.841681e+00 -4.913671e-02 -1.169520e+00
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## 1039 -9.179402e-02 3.153757e+00 3.655938e+00 3.563896e+00 2.011119e+00
## 1040 -4.686735e+00 -3.037130e+00 -3.363540e+00 5.802931e-02 -1.174342e+00
## 1041 -2.316424e+00 5.265133e-01 9.620849e-02 1.632438e+00 9.060556e-01
## 1042 -1.284552e-02 2.844602e+00 4.315647e+00 2.852403e+00 2.140849e+00
## 1043 -1.284552e-02 2.844602e+00 3.315647e+00 3.852403e+00 2.140849e+00
## 1044 3.211784e+00 6.471846e+00 6.875376e+00 4.783860e+00 3.245913e+00
## 1045 3.132836e+00 6.781001e+00 7.215667e+00 4.495354e+00 4.116183e+00
## 1046 2.810107e+00 6.337306e+00 6.780831e+00 4.073187e+00 3.883836e+00
## 1047 3.810107e+00 7.337306e+00 6.780831e+00 4.073187e+00 3.883836e+00
## 1048 1.475223e+00 3.922011e+00 4.551310e+00 2.716280e+00 1.819424e+00
## 1049 2.664426e+00 5.400907e+00 5.880811e+00 3.430236e+00 2.908503e+00
## 1050 3.924482e+00 7.176499e+00 7.670768e+00 4.579196e+00 4.029551e+00
## 1051 2.924482e+00 6.176499e+00 5.670768e+00 4.579196e+00 4.029551e+00
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## 1055 -1.462105e+00 5.901143e-01 1.196189e+00 1.989487e+00 9.307217e-01
## 1056 -3.462105e+00 -1.409886e+00 -1.803811e+00 1.989487e+00 9.307217e-01
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## 1058 -2.686735e+00 -1.037130e+00 -3.635404e-01 1.058029e+00 -1.743420e-01
## 1059 -6.867347e-01 9.628705e-01 1.636460e+00 1.058029e+00 -1.743420e-01
## 1060 -1.686735e+00 -3.712953e-02 1.636460e+00 1.058029e+00 -1.743420e-01
## 1061 4.589465e-01 2.899269e+00 3.536479e+00 1.700980e+00 8.009918e-01
## 1062 4.211784e+00 7.471846e+00 7.875376e+00 4.783860e+00 4.245913e+00

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## 1063	5.378950e-01	2.590114e+00	3.196189e+00	1.989487e+00	9.307217e-01
## 1064	1.762525e+00	4.217358e+00	5.755918e+00	2.920945e+00	2.035786e+00
## 1065	1.762525e+00	4.217358e+00	4.755918e+00	3.920945e+00	3.035786e+00
## 1066	5.132836e+00	8.781001e+00	9.215667e+00	5.495354e+00	5.116183e+00
## 1067	5.211784e+00	8.471846e+00	8.875376e+00	5.783860e+00	5.245913e+00
## 1068	2.762525e+00	5.217358e+00	5.755918e+00	4.920945e+00	3.035786e+00
## 1069	3.132653e-01	1.962870e+00	3.636460e+00	3.058029e+00	1.825658e+00
## 1070	1.616844e+00	3.280959e+00	3.855898e+00	4.277994e+00	3.060452e+00
## 1071	3.132653e-01	1.962870e+00	3.636460e+00	4.058029e+00	1.825658e+00
## 1072	3.132653e-01	1.962870e+00	3.636460e+00	4.058029e+00	1.825658e+00
## 1073	1.313265e+00	2.962870e+00	4.636460e+00	4.058029e+00	1.825658e+00
## 1074	1.392214e+00	2.653715e+00	4.296169e+00	5.346536e+00	2.955388e+00
## 1075	1.521619e+00	3.567372e+00	5.181358e+00	4.974187e+00	2.912290e+00
## 1076	2.969891e-01	1.940128e+00	3.621629e+00	4.042729e+00	1.807226e+00
## 1077	-7.030109e-01	9.401285e-01	3.621629e+00	4.042729e+00	1.807226e+00
## 1078	-8.173862e-01	1.100936e+00	2.731691e+00	3.536721e+00	1.661511e+00
## 1079	-1.415709e+00	2.354752e-01	1.826237e+00	3.247394e+00	2.023588e+00
## 1080	-4.946574e-01	1.544630e+00	3.166527e+00	2.958887e+00	1.893858e+00
## 1081	-5.300842e-01	1.396282e+00	3.936299e+00	2.741385e+00	1.877873e+00
## 1082	-5.300842e-01	1.396282e+00	2.936299e+00	2.741385e+00	1.877873e+00
## 1083	-1.754714e+00	-2.309614e-01	1.376569e+00	1.809928e+00	7.728093e-01
## 1084	-5.463604e-01	1.373541e+00	3.921468e+00	1.726086e+00	8.594412e-01
## 1085	-5.463604e-01	1.373541e+00	4.921468e+00	1.726086e+00	8.594412e-01
## 1086	-5.463604e-01	1.373541e+00	4.921468e+00	1.726086e+00	8.594412e-01
## 1087	3.757218e+00	4.691629e+00	4.140906e+00	3.946050e+00	3.094235e+00
## 1088	3.678269e+00	5.000784e+00	4.481197e+00	2.657543e+00	1.964505e+00
## 1089	5.017274e+00	6.467221e+00	5.930864e+00	4.095010e+00	3.215284e+00
## 1090	3.792645e+00	4.839977e+00	4.371135e+00	3.163552e+00	2.110220e+00
## 1091	3.871593e+00	4.530822e+00	4.030844e+00	3.452059e+00	2.239950e+00
## 1092	3.792645e+00	4.839977e+00	4.371135e+00	3.163552e+00	2.110220e+00
## 1093	4.792645e+00	4.839977e+00	4.371135e+00	3.163552e+00	2.110220e+00
## 1094	5.646963e+00	2.903578e+00	2.471115e+00	3.520601e+00	2.134886e+00
## 1095	4.725912e+00	3.594423e+00	2.130825e+00	5.809108e+00	4.264616e+00
## 1096	4.725912e+00	3.594423e+00	3.130825e+00	2.809108e+00	1.264616e+00
## 1097	9.052389e-01	2.939091e-01	1.791344e-02	-2.208215e-01	-1.559569e+00
## 1098	-3.031146e-01	6.894072e-01	-5.269849e-01	-1.369795e-01	-1.646201e+00
## 1099	-1.303115e+00	6.894072e-01	-5.269849e-01	-1.136979e+00	-2.646201e+00
## 1100	-1.303115e+00	-3.105928e-01	-5.269849e-01	-1.136979e+00	-2.646201e+00
## 1101	-1.303115e+00	-3.105928e-01	-5.269849e-01	-1.136979e+00	-2.646201e+00
## 1102	-1.303115e+00	-3.105928e-01	-5.269849e-01	-2.136979e+00	-3.646201e+00
## 1103	-2.567088e+00	-1.977414e-01	-1.426498e+00	-2.066124e+00	-3.827970e+00
## 1104	-5.886680e+00	-1.367537e+00	-2.680627e+00	-4.008256e+00	-6.104876e+00
## 1105	-3.245605e+00	2.976755e-01	-1.011242e+00	-4.537615e+00	-5.802868e+00
## 1106	-3.791717e+00	-1.824985e+00	-2.986228e+00	-3.997582e+00	-5.933033e+00
## 1107	-3.622707e+00	-4.803882e-01	-1.781113e+00	-3.079111e+00	-4.923107e+00
## 1108	-3.398339e+00	-2.417964e-02	-1.201525e+00	-3.440786e+00	-4.794362e+00
## 1109	-2.342720e+00	2.584671e-01	-8.469101e-01	-2.427799e+00	-3.699225e+00
## 1110	-2.303115e+00	6.894072e-01	-5.269849e-01	-2.136979e+00	-3.646201e+00
## 1111	-2.303115e+00	6.894072e-01	-5.269849e-01	-2.136979e+00	-3.646201e+00
## 1112	-2.511468e+00	8.490534e-02	-1.071883e+00	-2.053137e+00	-3.732832e+00
## 1113	-1.342720e+00	2.584671e-01	-8.469101e-01	-2.427799e+00	-3.699225e+00
## 1114	-1.078747e+00	1.145616e+00	5.260331e-02	-1.498655e+00	-2.517456e+00
## 1115	-2.551073e+00	-3.460347e-01	-1.391808e+00	-2.343957e+00	-3.785857e+00
## 1116	-2.551073e+00	-3.460347e-01	-1.391808e+00	-2.343957e+00	-3.785857e+00

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## 1117 -1.342720e+00  2.584671e-01 -8.469101e-01 -2.427799e+00 -3.699225e+00
## 1118 -1.287100e+00  5.411139e-01 -4.922950e-01 -1.414813e+00 -2.604088e+00
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## 1126 -3.287100e+00 -1.458886e+00 -1.492295e+00 -3.414813e+00 -4.604088e+00
## 1127 -2.551073e+00 -1.346035e+00 -2.391808e+00 -4.343957e+00 -5.785857e+00
## 1128 -1.287100e+00 -4.588861e-01 -1.492295e+00 -1.414813e+00 -2.604088e+00
## 1129 -1.247495e+00 -2.794603e-02 -1.172370e+00 -2.123993e+00 -3.551063e+00
## 1130  2.201502e+00  2.055506e+00  9.669476e-01 -5.542102e-01 -1.317255e+00
## 1131  7.847954e-01  8.465026e-01 -1.228492e-01 -3.865261e-01 -1.490519e+00
## 1132 -4.791776e-01 -4.064601e-02 -1.022363e+00 -3.156708e-01 -1.672288e+00
## 1133 -2.708241e-01  5.638559e-01 -4.774642e-01 -3.995128e-01 -1.585656e+00
## 1134  9.931489e-01  1.451004e+00  4.220492e-01  5.296319e-01 -4.038872e-01
## 1135  7.847954e-01  8.465026e-01 -1.228492e-01  6.134739e-01 -4.905191e-01
## 1136  8.244006e-01  1.277443e+00  1.970760e-01  9.042938e-01 -4.374944e-01
## 1137 -7.431507e-01 -9.277946e-01 -1.921876e+00 -1.244815e+00 -2.854057e+00
## 1138 -3.264436e-01  2.812091e-01  1.679207e-01 -1.412500e+00 -2.680793e+00
## 1139 -5.347971e-01 -3.232928e-01 -1.376978e+00 -1.328658e+00 -2.767425e+00
## 1140 -2.798770e+00 -1.210441e+00 -2.276491e+00 -2.257802e+00 -3.949194e+00
## 1141 -2.534797e+00 -3.232928e-01 -3.769777e-01 -1.328658e+00 -2.767425e+00
## 1142 -3.326444e+00  2.812091e-01 -8.320793e-01 -2.412500e+00 -3.680793e+00
## 1143 -4.326444e+00  2.812091e-01 -8.320793e-01 -3.412500e+00 -4.680793e+00
## 1144 -3.326444e+00  2.812091e-01 -8.320793e-01 -4.412500e+00 -5.680793e+00
## 1145 -2.326444e+00  2.812091e-01 -8.320793e-01 -4.412500e+00 -5.680793e+00
## 1146 -2.326444e+00  2.812091e-01 -8.320793e-01 -2.412500e+00 -3.680793e+00
## 1147 -4.590417e+00 -6.059395e-01 -1.731593e+00 -3.341644e+00 -4.862562e+00
## 1148 -3.511468e+00 -9.150947e-01 -2.071883e+00 -4.053137e+00 -5.732832e+00
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## 1152  1.993149e+00  1.451004e+00  4.220492e-01  5.296319e-01 -4.038872e-01
## 1153  2.048768e+00  1.733651e+00  7.766643e-01  1.542619e+00  6.912499e-01
## 1154 -4.235581e-01  2.420007e-01 -6.677475e-01  6.973160e-01 -5.771510e-01
## 1155 -6.875312e-01 -6.451479e-01 -1.567261e+00 -1.231829e+00 -2.758920e+00
## 1156 -2.708241e-01  5.638559e-01 -4.774642e-01 -1.399513e+00 -2.585656e+00
## 1157  9.931489e-01  1.451004e+00  4.220492e-01 -4.703681e-01 -1.403887e+00
## 1158  5.208224e-01 -4.064601e-02 -1.022363e+00 -1.315671e+00 -2.672288e+00
## 1159 -2.708241e-01  5.638559e-01 -4.774642e-01 -3.995128e-01 -1.585656e+00
## 1160 -3.007124e+00 -1.814943e+00 -2.821389e+00 -3.173960e+00 -5.035826e+00
## 1161 -2.534797e+00 -3.232928e-01 -1.376978e+00 -2.328658e+00 -3.767425e+00
## 1162 -4.590417e+00 -6.059395e-01 -1.731593e+00 -3.341644e+00 -4.862562e+00
## 1163 -3.326444e+00  2.812091e-01 -8.320793e-01 -3.412500e+00 -4.680793e+00
## 1164 -1.062471e+00  1.168358e+00  6.743413e-02 -2.483355e+00 -3.499024e+00
## 1165 -1.534797e+00 -3.232928e-01 -1.376978e+00 -2.328658e+00 -3.767425e+00
## 1166 -1.534797e+00 -3.232928e-01 -1.376978e+00 -2.328658e+00 -3.767425e+00
## 1167 -2.534797e+00 -3.232928e-01 -1.376978e+00 -2.328658e+00 -3.767425e+00
## 1168 -2.798770e+00 -1.210441e+00 -2.276491e+00 -3.257802e+00 -4.949194e+00
## 1169 -1.326444e+00  2.812091e-01 -8.320793e-01 -2.412500e+00 -3.680793e+00
## 1170  4.652029e-01 -3.232928e-01 -1.376978e+00 -1.328658e+00 -2.767425e+00

```

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## 1171 7.291759e-01 5.638559e-01 -4.774642e-01 -3.995128e-01 -1.585656e+00
## 1172 1.993149e+00 1.451004e+00 4.220492e-01 5.296319e-01 -4.038872e-01
## 1173 2.784795e+00 8.465026e-01 -1.228492e-01 1.613474e+00 5.094809e-01
## 1174 5.208224e-01 -4.064601e-02 -1.022363e+00 6.843292e-01 -6.722882e-01
## 1175 -5.347971e-01 -3.232928e-01 -1.376978e+00 -3.286575e-01 -1.767425e+00
## 1176 -5.347971e-01 -3.232928e-01 -1.376978e+00 -3.286575e-01 -1.767425e+00
## 1177 -2.708241e-01 5.638559e-01 -4.774642e-01 -3.995128e-01 -1.585656e+00
## 1178 -1.534797e+00 -3.232928e-01 -3.769777e-01 -1.328658e+00 -2.767425e+00
## 1179 -5.347971e-01 -3.232928e-01 -1.376978e+00 -1.328658e+00 -2.767425e+00
## 1180 -3.854390e+00 -1.493088e+00 -2.631106e+00 -2.270789e+00 -4.044331e+00
## 1181 -4.590417e+00 -6.059395e-01 -1.731593e+00 -2.341644e+00 -3.862562e+00
## 1182 -5.590417e+00 -6.059395e-01 -1.731593e+00 -4.341644e+00 -5.862562e+00
## 1183 -7.646036e+00 -1.888586e+00 -2.086208e+00 -6.354631e+00 -7.957700e+00
## 1184 -6.382063e+00 -1.001438e+00 -1.186694e+00 -5.425486e+00 -6.775931e+00
## 1185 -4.382063e+00 -1.001438e+00 -1.186694e+00 -5.425486e+00 -6.775931e+00
## 1186 -3.382063e+00 -1.001438e+00 -1.186694e+00 -4.425486e+00 -5.775931e+00
## 1187 -2.326444e+00 -7.187909e-01 -8.320793e-01 -2.412500e+00 -3.680793e+00
## 1188 -1.247495e+00 -1.027946e+00 -1.172370e+00 -2.123993e+00 -3.551063e+00
## 1189 -3.590417e+00 -6.059395e-01 -1.731593e+00 -1.341644e+00 -2.862562e+00
## 1190 -2.118090e+00 8.857110e-01 -2.871809e-01 -2.496342e+00 -3.594162e+00
## 1191 2.015024e-01 2.055506e+00 9.669476e-01 -5.542102e-01 -1.317255e+00
## 1192 2.048768e+00 1.733651e+00 7.766643e-01 5.426186e-01 -3.087501e-01
## 1193 2.143993e+00 2.447238e+00 1.451205e+00 2.846425e+00 1.839412e+00
## 1194 1.143993e+00 2.447238e+00 1.451205e+00 2.846425e+00 1.839412e+00
## 1195 -3.839529e-01 6.729408e-01 -3.478223e-01 -1.186411e-02 -1.524126e+00
## 1196 -1.439572e+00 3.902941e-01 -7.024374e-01 -1.024851e+00 -2.619263e+00
## 1197 -1.231219e+00 9.947959e-01 -1.575390e-01 -1.108693e+00 -2.532632e+00
## 1198 -2.495192e+00 1.076473e-01 -1.057052e+00 -2.037838e+00 -3.714401e+00
## 1199 1.458829e-01 1.772860e+00 6.123325e-01 -1.567197e+00 -2.412392e+00
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## 1202 -1.534797e+00 -3.232928e-01 -1.376978e+00 -1.328658e+00 -2.767425e+00
## 1203 -6.247058e-02 1.168358e+00 6.743413e-02 -4.833549e-01 -1.499024e+00
## 1204 -7.984976e-01 2.055506e+00 9.669476e-01 4.457898e-01 -3.172554e-01
## 1205 -3.270824e+00 5.638559e-01 -4.774642e-01 -2.399513e+00 -2.585656e+00
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## 1207 -2.708241e-01 5.638559e-01 -4.774642e-01 -1.399513e+00 -2.585656e+00
## 1208 7.291759e-01 5.638559e-01 -4.774642e-01 -3.995128e-01 -1.585656e+00
## 1209 -1.534797e+00 -3.232928e-01 -1.376978e+00 -3.286575e-01 -1.767425e+00
## 1210 -3.326444e+00 2.812091e-01 -8.320793e-01 -4.124996e-01 -1.680793e+00
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## 1213 -3.264436e-01 2.812091e-01 -8.320793e-01 -4.124996e-01 -1.680793e+00
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## 1215 2.371497e+00 2.177346e+00 1.211501e+00 2.964785e+00 1.923597e+00
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## 1217 -2.534797e+00 -3.232928e-01 -1.376978e+00 -1.328658e+00 -2.767425e+00
## 1218 -3.590417e+00 -6.059395e-01 -1.731593e+00 -3.341644e+00 -4.862562e+00
## 1219 -2.118090e+00 8.857110e-01 -2.871809e-01 -3.496342e+00 -4.594162e+00
## 1220 4.098560e-01 2.660008e+00 1.511846e+00 -1.638052e+00 -2.230623e+00
## 1221 -4.798770e+00 -1.210441e+00 -2.276491e+00 -4.257802e+00 -5.949194e+00
## 1222 -6.983795e+00 -2.406745e+00 -3.516295e+00 -4.898440e+00 -7.001233e+00
## 1223 -7.382063e+00 -1.437668e-03 -1.186694e+00 -5.425486e+00 -6.775931e+00
## 1224 -6.382063e+00 -1.001438e+00 -1.186694e+00 -7.425486e+00 -8.775931e+00

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## 1236 1.880293e+00 2.826037e+00 2.795130e+00 -1.379127e+00 -1.710418e+00
## 1237 2.255232e+00 2.012532e+00 1.160435e+00 8.723988e-01 2.968605e-02
## 1238 9.123106e-01 1.434538e+00 6.012118e-01 1.654747e+00 7.181870e-01
## 1239 -2.367677e+00 6.956828e-01 -3.329915e-01 -9.965643e-01 -2.505694e+00
## 1240 -2.423296e+00 4.130360e-01 -6.876066e-01 -3.009551e+00 -4.600832e+00
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## 1242 -5.175599e+00 2.774427e-01 -8.029240e-01 -1.095706e+00 -2.437494e+00
## 1243 -3.439300e+00 1.656242e+00 1.541001e+00 -2.321259e+00 -2.987324e+00
## 1244 7.275586e-01 2.504182e+00 2.604846e+00 -2.822986e-01 -7.019130e-01
## 1245 -1.768097e+00 1.604334e+00 1.855340e+00 5.968787e-01 -4.906795e-03
## 1246 -4.520411e+00 -6.261723e-01 -5.232748e-01 -2.899735e+00 -4.497189e+00
## 1247 -4.407282e+00 -7.352573e-01 -6.529167e-01 -4.287384e+00 -5.558719e+00
## 1248 -5.990575e+00 4.737465e-01 4.368800e-01 -3.455068e+00 -4.385455e+00
## 1249 -3.934955e+00 7.563932e-01 7.914951e-01 -3.442082e+00 -4.290318e+00
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## 1251 -3.198928e+00 -1.307554e-01 -1.080184e-01 -3.371226e+00 -4.472087e+00
## 1252 -1.198656e+00 3.135192e+00 3.135420e+00 3.323658e-01 1.598517e-01
## 1253 -5.201382e-01 2.639775e+00 2.720164e+00 -1.961434e-01 -8.652502e-01
## 1254 -1.992465e+00 1.148125e+00 1.275752e+00 -1.041446e+00 -2.133651e+00
## 1255 7.438348e-01 3.526924e+00 3.619677e+00 7.330013e-01 3.165189e-01
## 1256 -7.284917e-01 2.035274e+00 2.175265e+00 -1.123014e-01 -9.518820e-01
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## 1259 -1.728492e+00 2.035274e+00 2.175265e+00 -1.123014e-01 -9.518820e-01
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## 1261 -4.048084e+00 8.654782e-01 9.211370e-01 -2.054433e+00 -3.228788e+00
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## 1263 -1.728492e+00 2.035274e+00 2.175265e+00 -1.123014e-01 -9.518820e-01
## 1264 -1.728492e+00 2.035274e+00 2.175265e+00 -1.123014e-01 -9.518820e-01
## 1265 -1.728492e+00 2.035274e+00 2.175265e+00 -1.123014e-01 -9.518820e-01
## 1266 -1.728492e+00 2.035274e+00 2.175265e+00 -1.123014e-01 -9.518820e-01
## 1267 -4.645187e-01 2.922422e+00 3.074779e+00 8.168433e-01 2.298870e-01
## 1268 -4.645187e-01 2.922422e+00 3.074779e+00 8.168433e-01 2.298870e-01
## 1269 -4.645187e-01 2.922422e+00 3.074779e+00 8.168433e-01 2.298870e-01
## 1270 -4.645187e-01 2.922422e+00 3.074779e+00 8.168433e-01 2.298870e-01
## 1271 -4.645187e-01 2.922422e+00 3.074779e+00 8.168433e-01 2.298870e-01
## 1272 -4.645187e-01 1.922422e+00 1.074779e+00 8.168433e-01 2.298870e-01
## 1273 5.535481e+00 2.922422e+00 3.074779e+00 8.168433e-01 2.298870e-01
## 1274 5.535481e+00 -3.077578e+00 -2.925221e+00 8.168433e-01 6.229887e+00
## 1275 5.535481e+00 -3.077578e+00 -2.925221e+00 8.168433e-01 6.229887e+00
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## 1277 4.535481e+00 -3.077578e+00 -2.925221e+00 8.168433e-01 6.229887e+00
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## 1279 4.535481e+00 -3.077578e+00 -2.925221e+00 8.168433e-01 6.229887e+00
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## 1282 4.417190e+00 -2.028327e+00 -1.924715e+00 5.306495e-01 6.023452e+00
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## 1284 -1.348044e+00 -1.297731e+00 -1.751989e+00 -2.211146e+00 7.312149e-02
## 1285 -1.348044e+00 -1.297731e+00 -1.751989e+00 -2.211146e+00 7.312149e-02
## 1286 -8.407059e-02 -4.105819e-01 -8.524757e-01 -1.282001e+00 1.254891e+00
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## 1290 -8.407059e-02 -4.105819e-01 -8.524757e-01 -1.282001e+00 1.254891e+00
## 1291 -1.084071e+00 -4.105819e-01 -8.524757e-01 -1.282001e+00 1.254891e+00
## 1292 -1.084071e+00 -4.105819e-01 -8.524757e-01 -1.282001e+00 1.254891e+00
## 1293 -3.084071e+00 -4.105819e-01 -8.524757e-01 -1.282001e+00 2.548905e-01
## 1294 -1.084071e+00 -4.105819e-01 -8.524757e-01 -1.282001e+00 -7.451095e-01
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## 1301 1.799024e-01 4.765667e-01 4.703771e-02 -3.528563e-01 1.436660e+00
## 1302 1.799024e-01 4.765667e-01 4.703771e-02 -3.528563e-01 1.436660e+00
## 1303 2.385120e+00 1.807169e+00 1.411228e+00 1.083266e+00 3.567851e+00
## 1304 -4.655552e-01 -4.108225e-01 -8.226350e-01 -1.197190e+00 9.719662e-01
## 1305 -1.428264e-01 3.287209e-02 -3.877986e-01 -7.750231e-01 1.204313e+00
## 1306 -1.428264e-01 3.287209e-02 -3.877986e-01 -7.750231e-01 1.204313e+00
## 1307 -1.428264e-01 3.287209e-02 -3.877986e-01 -7.750231e-01 1.204313e+00
## 1308 -1.428264e-01 3.287209e-02 -3.877986e-01 -7.750231e-01 1.204313e+00
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## 1310 -1.142826e+00 3.287209e-02 -3.877986e-01 -7.750231e-01 1.204313e+00
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## 1315 -1.428264e-01 3.287209e-02 -3.877986e-01 -7.750231e-01 1.204313e+00
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## 1319 -1.142826e+00 3.287209e-02 -3.877986e-01 -7.750231e-01 1.204313e+00
## 1320 1.211466e-01 9.200207e-01 5.117148e-01 1.541216e-01 2.386082e+00
## 1321 1.211466e-01 9.200207e-01 5.117148e-01 1.541216e-01 2.386082e+00
## 1322 1.211466e-01 9.200207e-01 5.117148e-01 1.541216e-01 2.386082e+00
## 1323 1.385120e+00 1.807169e+00 1.411228e+00 1.083266e+00 3.567851e+00
## 1324 -2.015822e-01 4.763261e-01 7.687846e-02 -2.680452e-01 2.153735e+00
## 1325 -1.142826e+00 3.287209e-02 -3.877986e-01 -7.750231e-01 1.204313e+00
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## 1327 4.121147e+00 4.920021e+00 4.511715e+00 4.154122e+00 6.386082e+00
## 1328 4.121147e+00 4.920021e+00 4.511715e+00 4.154122e+00 6.386082e+00
## 1329 4.121147e+00 4.920021e+00 4.511715e+00 4.154122e+00 6.386082e+00
## 1330 4.121147e+00 4.920021e+00 4.511715e+00 4.154122e+00 6.386082e+00
## 1331 4.121147e+00 4.920021e+00 4.511715e+00 4.154122e+00 6.386082e+00
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## 1333 4.121147e+00 4.920021e+00 4.511715e+00 4.154122e+00 6.386082e+00
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## 1335 2.121147e+00 4.920021e+00 4.511715e+00 4.154122e+00 6.386082e+00
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## 1339 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
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## 1341 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
## 1342 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
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## 1344 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
## 1345 2.583988e+00 2.603350e+00 2.251418e+00 1.951212e+00 4.675892e+00
## 1346 -5.894158e-01 -5.833642e-02 -4.172811e-01 -7.514113e-01 1.847661e+00
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## 1348 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
## 1349 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
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## 1354 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
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## 1366 2.583988e+00 2.603350e+00 2.251418e+00 1.951212e+00 4.675892e+00
## 1367 -9.121446e-01 -5.020310e-01 -8.521175e-01 -1.173578e+00 1.615314e+00
## 1368 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
## 1369 5.604181e-02 8.290528e-01 4.523915e-01 9.292232e-02 2.312354e+00
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## 1389 -9.709004e-01 -5.857704e-02 -3.874404e-01 -6.666001e-01 5.647366e-01
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## 1398 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
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## 1402 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1403 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
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## 1407 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1408 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1409 9.385302e-01 1.715961e+00 1.381746e+00 1.106878e+00 2.211199e+00
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## 1419 -1.325443e+00 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1420 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 2.942995e-02
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## 1422 -9.669223e-02 5.071977e-01 2.621082e-01 1.189751e+00 1.320860e+00
## 1423 -9.669223e-02 5.071977e-01 2.621082e-01 1.189751e+00 1.320860e+00
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## 1426 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1427 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1428 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1429 9.385302e-01 1.715961e+00 1.381746e+00 1.106878e+00 2.211199e+00
## 1430 -6.481716e-01 3.851176e-01 4.739595e-02 -2.444333e-01 7.970833e-01
## 1431 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1432 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
## 1433 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
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## 1437 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
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## 1439 -3.254428e-01 8.288122e-01 4.822323e-01 1.777334e-01 1.029430e+00
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## 1467 9.622288e-02 2.158066e+00 4.590574e+00 3.383517e+00 3.450136e-01
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## 1485 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1486 -7.179831e-01 1.097115e+00 3.495928e+00 2.913845e+00 -1.532869e-01
## 1487 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1488 -7.179831e-01 9.711480e-02 3.495928e+00 2.913845e+00 -1.532869e-01
## 1489 -7.179831e-01 1.097115e+00 3.495928e+00 2.913845e+00 -1.532869e-01
## 1490 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1491 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1492 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1493 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1494 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01

```



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## 1495 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1496 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1497 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1498 -7.179831e-01 1.097115e+00 3.495928e+00 2.913845e+00 -1.532869e-01
## 1499 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1500 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1501 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1502 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1503 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1504 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1505 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1506 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1507 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1508 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1509 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1510 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1511 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1512 -7.575883e-01 6.661747e-01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1513 2.424241e+01 2.566617e+01 3.176003e+00 2.623025e+00 -2.063117e-01
## 1514 2.424241e+01 2.566617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1515 2.424241e+01 2.466617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1516 2.424241e+01 2.366617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1517 2.424241e+01 2.266617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1518 2.424241e+01 2.266617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1519 2.424241e+01 2.366617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1520 2.424241e+01 2.366617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1521 2.424241e+01 2.366617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1522 2.424241e+01 2.266617e+01 2.817600e+01 2.762303e+01 2.479369e+01
## 1523 -8.347044e+00 -8.286043e+00 -2.309963e+00 -2.876090e+00 -6.076156e+00
## 1524 -1.164493e+00 9.762536e-02 2.805232e+00 2.240530e+00 -6.671093e-01
## 1525 -1.124888e+00 5.285654e-01 3.125157e+00 2.531350e+00 -6.140845e-01
## 1526 -1.085283e+00 9.595055e-01 3.445083e+00 2.822170e+00 -5.610598e-01
## 1527 -1.045678e+00 1.390446e+00 3.765008e+00 3.112990e+00 -5.080350e-01
## 1528 -1.045678e+00 1.390446e+00 3.765008e+00 3.112990e+00 -5.080350e-01
## 1529 -1.085283e+00 9.595055e-01 3.445083e+00 2.822170e+00 -5.610598e-01
## 1530 -1.085283e+00 9.595055e-01 3.445083e+00 2.822170e+00 -5.610598e-01
## 1531 -1.085283e+00 -4.049447e-02 3.445083e+00 2.822170e+00 -5.610598e-01
## 1532 -1.045678e+00 3.904456e-01 3.765008e+00 3.112990e+00 -5.080350e-01
## 1533 -1.124888e+00 -4.714346e-01 3.125157e+00 2.531350e+00 -6.140845e-01
## 1534 1.835507e+00 3.097625e+00 2.805232e+00 3.240530e+00 -6.671093e-01
## 1535 1.835507e+00 2.097625e+00 -1.947679e-01 2.405297e-01 -1.667109e+00
## 1536 1.835507e+00 2.097625e+00 -1.947679e-01 2.405297e-01 -2.667109e+00
## 1537 1.835507e+00 2.097625e+00 -1.947679e-01 2.405297e-01 -3.667109e+00
## 1538 1.835507e+00 2.097625e+00 -1.947679e-01 2.405297e-01 -4.667109e+00
## 1539 1.835507e+00 2.097625e+00 -1.947679e-01 2.405297e-01 -3.667109e+00
## 1540 1.835507e+00 2.097625e+00 -1.947679e-01 2.405297e-01 -3.667109e+00
## 1541 1.875112e+00 2.528565e+00 1.251573e-01 5.313497e-01 -3.614085e+00
## 1542 1.875112e+00 2.528565e+00 1.251573e-01 5.313497e-01 -2.614085e+00
## 1543 1.875112e+00 2.528565e+00 1.251573e-01 5.313497e-01 -2.614085e+00
## 1544 -2.189603e+00 -1.695834e+00 -3.743022e+00 -3.925373e+00 -6.517205e+00
## 1545 -2.366447e+00 -1.263544e+00 -3.167247e+00 -3.404214e+00 -4.648573e+00
## 1546 -2.689175e+00 -1.707239e+00 -3.602084e+00 -3.826381e+00 -4.880920e+00
## 1547 -3.011904e+00 -2.150934e+00 -4.036920e+00 -4.248547e+00 -5.113266e+00
## 1548 4.666537e+01 4.740537e+01 4.552824e+01 4.532929e+01 4.365439e+01

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## 1549	4.698810e+01	4.784907e+01	4.596308e+01	4.575145e+01	4.288673e+01
## 1550	4.698810e+01	4.784907e+01	4.596308e+01	4.575145e+01	4.288673e+01
## 1551	4.698810e+01	4.784907e+01	4.596308e+01	4.575145e+01	4.288673e+01
## 1552	4.731082e+01	4.829276e+01	4.639792e+01	4.617362e+01	4.311908e+01
## 1553	4.731082e+01	4.829276e+01	4.639792e+01	4.617362e+01	4.411908e+01
## 1554	4.731082e+01	4.829276e+01	4.639792e+01	4.617362e+01	4.411908e+01
## 1555	4.795628e+01	4.918015e+01	4.726759e+01	4.701795e+01	4.558377e+01
## 1556	4.795628e+01	4.918015e+01	4.726759e+01	4.701795e+01	4.558377e+01
## 1557	4.795628e+01	4.918015e+01	4.726759e+01	4.701795e+01	4.458377e+01
## 1558	-3.180257e+00	-2.400643e+00	-3.908788e+00	-5.169205e+00	-6.570168e+00
## 1559	-3.502986e+00	-2.844338e+00	-5.343624e+00	-5.591372e+00	-7.802515e+00
## 1560	-3.502986e+00	-2.844338e+00	-5.343624e+00	-5.591372e+00	-7.802515e+00
## 1561	-3.502986e+00	-2.844338e+00	-5.343624e+00	-5.591372e+00	-7.802515e+00
## 1562	-3.502986e+00	-2.844338e+00	-5.343624e+00	-5.591372e+00	-7.802515e+00
## 1563	-3.180257e+00	-2.400643e+00	-4.908788e+00	-5.169205e+00	-7.570168e+00
## 1564	-3.180257e+00	-2.400643e+00	-4.908788e+00	-5.169205e+00	-7.570168e+00
## 1565	-2.857528e+00	-1.956949e+00	-4.473952e+00	-3.747038e+00	-6.337821e+00
## 1566	-2.857528e+00	-1.956949e+00	-3.473952e+00	-3.747038e+00	-5.337821e+00
## 1567	-3.180257e+00	-2.400643e+00	-4.908788e+00	-5.169205e+00	-6.570168e+00
## 1568	-3.065882e+00	-2.561450e+00	-5.018850e+00	-4.663196e+00	-7.424453e+00
## 1569	-3.467559e+00	-2.695990e+00	-6.113396e+00	-6.373870e+00	-7.786530e+00
## 1570	-3.467559e+00	-2.695990e+00	-5.113396e+00	-6.373870e+00	-8.786530e+00
## 1571	-3.467559e+00	-2.695990e+00	-6.113396e+00	-6.373870e+00	-9.786530e+00
## 1572	-3.467559e+00	-2.695990e+00	-7.113396e+00	-7.373870e+00	-1.078653e+01
## 1573	-3.467559e+00	-2.695990e+00	-7.113396e+00	-8.373870e+00	-1.078653e+01
## 1574	-3.467559e+00	-2.695990e+00	-8.113396e+00	-9.373870e+00	-1.278653e+01
## 1575	-3.259205e+00	-2.091488e+00	-1.056850e+01	-1.245771e+01	-1.669990e+01
## 1576	-2.857528e+00	-1.956949e+00	-1.047395e+01	-1.174704e+01	-1.533782e+01
## 1577	7.185517e+01	7.274770e+01	6.232144e+01	6.204830e+01	5.944582e+01
## 1578	7.153244e+01	7.230401e+01	6.188660e+01	6.162613e+01	5.921347e+01
## 1579	7.156787e+01	7.245236e+01	6.211683e+01	6.184363e+01	5.922945e+01
## 1580	7.132409e+01	7.169951e+01	6.134171e+01	6.170997e+01	5.912684e+01
## 1581	7.092241e+01	7.156497e+01	6.024716e+01	6.099930e+01	5.776476e+01
## 1582	7.063511e+01	7.126962e+01	6.104255e+01	6.079463e+01	5.954840e+01
## 1583	7.074948e+01	7.110881e+01	6.393249e+01	6.430064e+01	6.369411e+01
## 1584	7.013945e+01	7.036977e+01	6.529305e+01	6.567381e+01	6.524541e+01
## 1585	6.895482e+01	6.904004e+01	6.424439e+01	6.463765e+01	6.336397e+01
## 1586	6.927755e+01	6.948373e+01	6.167922e+01	6.205982e+01	6.259632e+01
## 1587	-6.986691e+00	-6.764412e+00	-1.186257e+01	-1.215867e+01	-1.189982e+01
## 1588	-6.986691e+00	-6.764412e+00	-1.186257e+01	-1.115867e+01	-9.899818e+00
## 1589	-6.986691e+00	-6.764412e+00	-1.086257e+01	-1.115867e+01	-9.899818e+00
## 1590	-6.986691e+00	-6.764412e+00	-1.086257e+01	-1.115867e+01	-9.899818e+00
## 1591	-7.388368e+00	-6.898951e+00	-1.095712e+01	-1.186935e+01	-1.126189e+01
## 1592	-6.663962e+00	-6.320717e+00	-1.042773e+01	-1.073651e+01	-1.066747e+01
## 1593	-5.479327e+00	-4.990982e+00	-9.379073e+00	-9.700347e+00	-8.786039e+00
## 1594	-4.904723e+00	-4.400289e+00	-8.969858e+00	-9.291017e+00	-9.353315e+00
## 1595	-5.227452e+00	-4.843984e+00	-9.404694e+00	-9.713184e+00	-9.585662e+00
## 1596	-5.443900e+00	-4.842635e+00	-9.148845e+00	-9.482845e+00	-8.770054e+00
## 1597	-4.869296e+00	-4.251941e+00	-8.739629e+00	-9.073515e+00	-8.337330e+00
## 1598	-4.338214e+00	-3.203745e+00	-7.759895e+00	-8.735191e+00	-8.018352e+00
## 1599	-4.259265e+00	-3.512900e+00	-8.100185e+00	-8.446684e+00	-8.888622e+00
## 1600	-4.259265e+00	-3.512900e+00	-9.100185e+00	-8.446684e+00	-8.888622e+00
## 1601	-4.581994e+00	-3.956594e+00	-9.535021e+00	-9.868851e+00	-1.012097e+01
## 1602	-4.581994e+00	-3.956594e+00	-9.535021e+00	-8.868851e+00	-9.120968e+00

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## 1603 -4.259265e+00 -3.512900e+00 -9.100185e+00 -8.446684e+00 -8.888622e+00
## 1604 -4.581994e+00 -3.956594e+00 -8.535021e+00 -8.868851e+00 -9.120968e+00
## 1605 7.041801e+01 7.104341e+01 6.546498e+01 6.513115e+01 6.587903e+01
## 1606 6.974073e+01 7.048710e+01 6.589981e+01 6.555332e+01 6.511138e+01
## 1607 7.074073e+01 7.148710e+01 6.589981e+01 6.555332e+01 6.611138e+01
## 1608 7.074073e+01 7.148710e+01 6.689981e+01 6.755332e+01 6.811138e+01
## 1609 7.041801e+01 7.104341e+01 6.746498e+01 6.713115e+01 6.687903e+01
## 1610 7.033906e+01 7.135256e+01 6.780527e+01 6.684264e+01 6.674930e+01
## 1611 7.013070e+01 7.074806e+01 6.626037e+01 6.592648e+01 6.566267e+01
## 1612 7.033906e+01 7.135256e+01 6.680527e+01 6.584264e+01 6.574930e+01
## 1613 7.033906e+01 7.135256e+01 6.680527e+01 6.584264e+01 6.674930e+01
## 1614 7.041801e+01 7.104341e+01 6.646498e+01 6.613115e+01 6.587903e+01
## 1615 -5.767283e+00 -5.513894e+00 -9.417104e+00 -9.798835e+00 -1.048738e+01
## 1616 -4.786433e+00 -4.639500e+00 -8.632502e+00 -9.001037e+00 -9.484929e+00
## 1617 -5.767283e+00 -5.513894e+00 -9.417104e+00 -9.798835e+00 -9.487376e+00
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## 1619 -5.515407e+00 -5.366896e+00 -9.442725e+00 -9.811672e+00 -9.286999e+00
## 1620 -5.515407e+00 -5.366896e+00 -9.442725e+00 -9.811672e+00 -1.028700e+01
## 1621 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -1.050336e+01
## 1622 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -1.050336e+01
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## 1624 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -1.150336e+01
## 1625 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -1.050336e+01
## 1626 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -1.050336e+01
## 1627 -5.479981e+00 -5.218548e+00 -9.212496e+00 -9.594170e+00 -1.027101e+01
## 1628 -5.479981e+00 -5.218548e+00 -9.212496e+00 -9.594170e+00 -9.271014e+00
## 1629 -5.479981e+00 -6.218548e+00 -9.212496e+00 -9.594170e+00 -9.271014e+00
## 1630 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -9.503361e+00
## 1631 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -9.503361e+00
## 1632 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -9.503361e+00
## 1633 -6.125438e+00 -6.105937e+00 -1.008217e+01 -1.043850e+01 -1.073571e+01
## 1634 -6.125438e+00 -6.105937e+00 -1.008217e+01 -1.043850e+01 -1.073571e+01
## 1635 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -1.050336e+01
## 1636 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -1.050336e+01
## 1637 -5.802709e+00 -5.662242e+00 -9.647333e+00 -1.001634e+01 -1.050336e+01
## 1638 -5.479981e+00 -5.218548e+00 -9.212496e+00 -9.594170e+00 -1.127101e+01
## 1639 -5.440375e+00 -4.787608e+00 -8.892571e+00 -9.303351e+00 -1.021799e+01
## 1640 -5.479981e+00 -5.218548e+00 -9.212496e+00 -9.594170e+00 -1.127101e+01
## 1641 -5.479981e+00 -5.218548e+00 -9.212496e+00 -9.594170e+00 -1.127101e+01
## 1642 -5.479981e+00 -5.218548e+00 -1.021250e+01 -1.059417e+01 -1.227101e+01
## 1643 -5.802709e+00 -5.662242e+00 -1.064733e+01 -1.101634e+01 -1.350336e+01
## 1644 6.919729e+01 6.933776e+01 6.335267e+01 6.298366e+01 6.049664e+01
## 1645 6.919729e+01 6.933776e+01 6.235267e+01 6.298366e+01 6.049664e+01
## 1646 6.919729e+01 6.933776e+01 6.235267e+01 6.298366e+01 6.049664e+01
## 1647 6.919729e+01 6.933776e+01 6.235267e+01 6.198366e+01 5.949664e+01
## 1648 6.887456e+01 6.889406e+01 6.191783e+01 6.156150e+01 5.926429e+01
## 1649 6.919729e+01 6.933776e+01 6.135267e+01 6.098366e+01 5.749664e+01
## 1650 6.887456e+01 6.889406e+01 6.091783e+01 6.056150e+01 5.926429e+01
## 1651 6.887456e+01 6.889406e+01 6.191783e+01 6.256150e+01 6.126429e+01
## 1652 6.858726e+01 6.859872e+01 6.371322e+01 6.335683e+01 6.504793e+01
## 1653 6.826453e+01 6.815502e+01 6.327839e+01 6.293466e+01 6.481558e+01
## 1654 -8.243487e+00 -8.845973e+00 -1.303853e+01 -1.341749e+01 -1.078317e+01
## 1655 -8.322435e+00 -8.536818e+00 -1.269824e+01 -1.370599e+01 -1.091290e+01
## 1656 -8.322435e+00 -8.536818e+00 -1.269824e+01 -1.370599e+01 -1.091290e+01

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```

## 1657 -8.530789e+00 -9.141320e+00 -1.324314e+01 -1.362215e+01 -1.199953e+01
## 1658 -8.530789e+00 -9.141320e+00 -1.324314e+01 -1.362215e+01 -1.199953e+01
## 1659 -9.140819e+00 -9.880361e+00 -1.388258e+01 -1.424898e+01 -1.244824e+01
## 1660 -8.495362e+00 -8.992972e+00 -1.301291e+01 -1.340465e+01 -1.098355e+01
## 1661 -7.999706e+00 -8.093123e+00 -1.226341e+01 -1.328383e+01 -1.168055e+01
## 1662 -6.665269e+00 -6.775848e+00 -1.109458e+01 -1.152416e+01 -1.063742e+01
## 1663 -6.665269e+00 -6.775848e+00 -1.109458e+01 -1.152416e+01 -1.163742e+01
## 1664 -6.342540e+00 -6.332153e+00 -1.065974e+01 -1.110199e+01 -1.240508e+01
## 1665 -6.342540e+00 -6.332153e+00 -1.065974e+01 -1.110199e+01 -1.340508e+01
## 1666 -6.342540e+00 -6.332153e+00 -1.065974e+01 -1.110199e+01 -1.240508e+01
## 1667 -6.665269e+00 -6.775848e+00 -1.109458e+01 -1.152416e+01 -1.163742e+01
## 1668 -6.665269e+00 -6.775848e+00 -1.109458e+01 -1.152416e+01 -1.063742e+01
## 1669 -6.665269e+00 -6.775848e+00 -1.109458e+01 -1.152416e+01 -9.637422e+00
## 1670 -6.342540e+00 -7.332153e+00 -1.065974e+01 -1.110199e+01 -9.405076e+00
## 1671 -6.665269e+00 -6.775848e+00 -1.109458e+01 -1.052416e+01 -9.637422e+00
## 1672 -6.665269e+00 -6.775848e+00 -1.109458e+01 -1.152416e+01 -9.637422e+00
## 1673 6.801200e+01 6.778046e+01 6.347058e+01 6.405368e+01 6.513023e+01
## 1674 6.768927e+01 6.733676e+01 6.303575e+01 6.363151e+01 6.489788e+01
## 1675 6.736654e+01 6.689307e+01 6.260091e+01 6.220934e+01 6.266554e+01
## 1676 6.768927e+01 6.733676e+01 6.303575e+01 6.263151e+01 6.289788e+01
## 1677 6.801200e+01 6.778046e+01 6.347058e+01 6.305368e+01 6.313023e+01
## 1678 6.833473e+01 6.822415e+01 6.390542e+01 6.347584e+01 6.336258e+01
## 1679 6.865746e+01 6.866785e+01 6.434026e+01 6.389801e+01 6.459492e+01
## 1680 6.869706e+01 6.909879e+01 6.666018e+01 6.618883e+01 6.564795e+01
## 1681 6.854308e+01 6.882865e+01 6.645032e+01 6.539200e+01 6.644921e+01
## 1682 6.865746e+01 6.866785e+01 6.634026e+01 6.589801e+01 6.559492e+01
## 1683 -7.677631e+00 -7.876994e+00 -1.066199e+01 -1.175548e+01 -1.093318e+01
## 1684 -7.677631e+00 -7.876994e+00 -1.066199e+01 -1.175548e+01 -1.093318e+01
## 1685 -8.208713e+00 -8.925191e+00 -1.164173e+01 -1.209381e+01 -1.125216e+01
## 1686 -8.208713e+00 -8.925191e+00 -1.164173e+01 -1.209381e+01 -1.225216e+01
## 1687 -8.208713e+00 -8.925191e+00 -1.164173e+01 -1.209381e+01 -1.125216e+01
## 1688 -8.208713e+00 -8.925191e+00 -1.064173e+01 -1.109381e+01 -1.125216e+01
## 1689 -7.885985e+00 -8.481496e+00 -1.020689e+01 -1.067164e+01 -1.001982e+01
## 1690 -7.634109e+00 -8.334497e+00 -8.232511e+00 -8.684479e+00 -8.819438e+00
## 1691 -7.311381e+00 -7.890802e+00 -8.797674e+00 -9.262312e+00 -8.587091e+00
## 1692 -7.634109e+00 -8.334497e+00 -9.232511e+00 -9.684479e+00 -9.819438e+00
## 1693 -7.598683e+00 -8.186149e+00 -9.002282e+00 -9.466977e+00 -9.803453e+00
## 1694 -7.598683e+00 -8.186149e+00 -1.000228e+01 -1.046698e+01 -1.080345e+01
## 1695 -7.598683e+00 -8.186149e+00 -1.100228e+01 -1.146698e+01 -1.080345e+01
## 1696 -7.921411e+00 -8.629844e+00 -1.143712e+01 -1.188914e+01 -1.103580e+01
## 1697 -7.598683e+00 -8.186149e+00 -1.100228e+01 -1.146698e+01 -1.080345e+01
## 1698 -7.634109e+00 -8.334497e+00 -1.123251e+01 -1.168448e+01 -1.081944e+01
## 1699 -7.311381e+00 4.210920e+01 -1.079767e+01 -1.126231e+01 -1.058709e+01
## 1700 -7.059505e+00 4.225620e+01 -1.082330e+01 -1.127515e+01 -1.038671e+01
## 1701 4.297592e+01 4.240454e+01 4.040693e+01 3.994235e+01 4.162927e+01
## 1702 4.265319e+01 4.196085e+01 4.097210e+01 4.052019e+01 4.139692e+01
## 1703 4.265319e+01 4.196085e+01 3.997210e+01 3.952019e+01 3.939692e+01
## 1704 4.236589e+01 4.166550e+01 3.876749e+01 3.831552e+01 3.918056e+01
## 1705 4.240132e+01 4.181385e+01 3.899772e+01 3.853302e+01 3.919655e+01
## 1706 4.240132e+01 4.181385e+01 3.899772e+01 3.853302e+01 3.919655e+01
## 1707 4.240132e+01 4.181385e+01 3.899772e+01 3.853302e+01 3.919655e+01
## 1708 4.240132e+01 4.181385e+01 3.899772e+01 3.953302e+01 3.919655e+01
## 1709 4.042106e+01 2.026685e+01 2.300146e+01 2.399203e+01 3.654531e+01
## 1710 4.042106e+01 2.026685e+01 2.300146e+01 2.399203e+01 3.654531e+01

```

```

## [[1]]
##           EFFR           OBFR           TGCR           BGCR           SOFR
## EFFR      1.26397302  0.8871486  0.8995134  0.9291447  1.18176903
## OBFR      0.03960522  0.4309401  0.3199252  0.2908199  0.05302475
## TGCR     -0.07894851  0.3091551  0.3402906 -0.2885068 -0.12972998
## BGCR      0.11437529 -0.1608072 -0.1100620  0.5060088  0.14571479
## SOFR     -0.32272882 -0.4436946 -0.4348363 -0.4221668 -0.23234668
## ones_v    0.68430219 -1.3857355 -1.0509042 -0.8460216  0.21191251
##
## [[2]]
##           [,1]           [,2]           [,3]           [,4]           [,5]
## [1,] 0.20892109 0.1743107 0.1581115 0.1589862 0.19683651
## [2,] 0.23489666 0.1908714 0.1798131 0.1824249 0.22692623
## [3,] 0.25757730 0.2124717 0.2029555 0.2232339 0.24951946
## [4,] 0.08281188 0.1092355 0.1117780 0.1378801 0.08324039
## [5,] 0.20855607 0.1695159 0.1504028 0.1537901 0.19981445
## [6,] 0.64079827 0.7850955 0.7672610 0.7361805 0.62942347
##
## [[3]]
##           EFFR           OBFR           TGCR           BGCR           SOFR
## [1,] 0.9999824 0.9999809 0.9999788 0.9999786 0.9999802
##
## [[4]]
##           EFFR           OBFR           TGCR           BGCR           SOFR
## [1,] 0.9999824 0.9999808 0.9999787 0.9999786 0.9999801
##
## [[5]]
##           EFFR           OBFR           TGCR           BGCR           SOFR
## EFFR      0.043648021 -0.043018561  0.044876819 -0.002980038 -0.042352198
## OBFR     -0.043018561  0.055176442 -0.056967020  0.002300389  0.042433692
## TGCR      0.044876819 -0.056967020  0.066346067 -0.008299396 -0.045658224
## BGCR     -0.002980038  0.002300389 -0.008299396  0.006857808  0.001923460
## SOFR     -0.042352198  0.042433692 -0.045658224  0.001923460  0.043495633
## ones_v   -0.016850454  0.013249259  0.004202031 -0.006200593  0.003507452
##           ones_v           EFFR           OBFR           TGCR           BGCR
## EFFR     -0.016850454  0.030384228 -0.026718386  0.024643024 -0.005648924
## OBFR      0.013249259 -0.026718386  0.036431883 -0.034578487  0.004803758
## TGCR      0.004202031  0.024643024 -0.034578487  0.045144215 -0.009974637
## BGCR     -0.006200593 -0.005648924  0.004803758 -0.009974637  0.011932395
## SOFR      0.003507452 -0.022452684  0.019952278 -0.024911286 -0.001406146
## ones_v   0.410622419 -0.036221865  0.030371176  0.002714693  0.022052861
##           SOFR           ones_v           EFFR           OBFR           TGCR
## EFFR     -0.022452684 -0.036221865  0.024999251 -0.026200757  0.02423891
## OBFR      0.019952278  0.030371176 -0.026200757  0.032332743 -0.03036377
## TGCR     -0.024911286  0.002714693  0.024238911 -0.030363771  0.04119093
## BGCR     -0.001406146  0.022052861 -0.005692384  0.004968152 -0.01105127
## SOFR      0.028735640 -0.021596199 -0.017150087  0.019153606 -0.02367912
## ones_v   -0.021596199  0.616374935 -0.035707922  0.029880257  0.00162691
##           BGCR           SOFR           ones_v           EFFR           OBFR
## EFFR     -0.005692384 -0.017150087 -0.03570792  0.025276621 -0.026812622
## OBFR      0.004968152  0.019153606  0.02988026 -0.026812622  0.033278840
## TGCR     -0.011051267 -0.023679124  0.00162691  0.026333530 -0.032737235
## BGCR      0.012494330 -0.001020262  0.02027733 -0.005417454  0.004698514
## SOFR     -0.001020262  0.022620995 -0.01853874 -0.019191044  0.021467591

```

```
## ones_v 0.020277331 -0.018538744 0.58868938 -0.029606005 0.024099538
##          TGCR          BGCR          SOFR          ones_v          EFFR
## EFFR    0.026333530 -0.0054174537 -0.0191910435 -0.029606005 0.038744613
## OBFR    -0.032737235 0.0046985136 0.0214675909 0.024099538 -0.042025141
## TGCR     0.049833366 -0.0178269473 -0.0252246126 -0.001231179 0.043799004
## BGCR    -0.017826947 0.0190109131 -0.0007930852 0.017449841 -0.002063489
## SOFR    -0.025224613 -0.0007930852 0.0236513871 -0.013094726 -0.038292451
## ones_v -0.001231179 0.0174498412 -0.0130947261 0.541961682 -0.017039334
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFFR   -0.042025141 0.043799004 -0.002063489 -0.038292451 -0.017039334
## OBFR    0.051495515 -0.053116502 0.001491353 0.042074539 0.012750243
## TGCR   -0.053116502 0.062259961 -0.007667676 -0.044937880 0.004211474
## BGCR    0.001491353 -0.007667676 0.006928963 0.001082769 -0.007041732
## SOFR    0.042074539 -0.044937880 0.001082769 0.039925816 0.005116623
## ones_v 0.012750243 0.004211474 -0.007041732 0.005116623 0.396173909
##
## [[6]]
##          [,1] [,2] [,3]
## [1,] 64835.24 6 0
## [2,] 45526.88 6 0
## [3,] 43793.99 6 0
## [4,] 40925.88 6 0
## [5,] 66505.90 6 0
```

```
print(result[[1]]) # bv
```

```
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    1.26397302 0.8871486 0.8995134 0.9291447 1.18176903
## OBFR    0.03960522 0.4309401 0.3199252 0.2908199 0.05302475
## TGCR   -0.07894851 0.3091551 0.3402906 -0.2885068 -0.12972998
## BGCR    0.11437529 -0.1608072 -0.1100620 0.5060088 0.14571479
## SOFR   -0.32272882 -0.4436946 -0.4348363 -0.4221668 -0.23234668
## ones_v 0.68430219 -1.3857355 -1.0509042 -0.8460216 0.21191251
```

```
print(result[[2]]) # sebv
```

```
##          [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.20892109 0.1743107 0.1581115 0.1589862 0.19683651
## [2,] 0.23489666 0.1908714 0.1798131 0.1824249 0.22692623
## [3,] 0.25757730 0.2124717 0.2029555 0.2232339 0.24951946
## [4,] 0.08281188 0.1092355 0.1117780 0.1378801 0.08324039
## [5,] 0.20855607 0.1695159 0.1504028 0.1537901 0.19981445
## [6,] 0.64079827 0.7850955 0.7672610 0.7361805 0.62942347
```

```
print(result[[4]]) # R2adj
```

```
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999824 0.9999808 0.9999787 0.9999786 0.9999801
```

```
print(result[[5]]) # v covariance
```

```

##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    0.043648021 -0.043018561  0.044876819 -0.002980038 -0.042352198
## OBFR    -0.043018561  0.055176442 -0.056967020  0.002300389  0.042433692
## TGCR    0.044876819 -0.056967020  0.066346067 -0.008299396 -0.045658224
## BGCR    -0.002980038  0.002300389 -0.008299396  0.006857808  0.001923460
## SOFR    -0.042352198  0.042433692 -0.045658224  0.001923460  0.043495633
## ones_v -0.016850454  0.013249259  0.004202031 -0.006200593  0.003507452
##          ones_v          EFFR          OBFR          TGCR          BGCR
## EFFR    -0.016850454  0.030384228 -0.026718386  0.024643024 -0.005648924
## OBFR    0.013249259 -0.026718386  0.036431883 -0.034578487  0.004803758
## TGCR    0.004202031  0.024643024 -0.034578487  0.045144215 -0.009974637
## BGCR    -0.006200593 -0.005648924  0.004803758 -0.009974637  0.011932395
## SOFR    0.003507452 -0.022452684  0.019952278 -0.024911286 -0.001406146
## ones_v  0.410622419 -0.036221865  0.030371176  0.002714693  0.022052861
##          SOFR          ones_v          EFFR          OBFR          TGCR
## EFFR    -0.022452684 -0.036221865  0.024999251 -0.026200757  0.02423891
## OBFR    0.019952278  0.030371176 -0.026200757  0.032332743 -0.03036377
## TGCR    -0.024911286  0.002714693  0.024238911 -0.030363771  0.04119093
## BGCR    -0.001406146  0.022052861 -0.005692384  0.004968152 -0.01105127
## SOFR    0.028735640 -0.021596199 -0.017150087  0.019153606 -0.02367912
## ones_v -0.021596199  0.616374935 -0.035707922  0.029880257  0.00162691
##          BGCR          SOFR          ones_v          EFFR          OBFR
## EFFR    -0.005692384 -0.017150087 -0.03570792  0.025276621 -0.026812622
## OBFR    0.004968152  0.019153606  0.02988026 -0.026812622  0.033278840
## TGCR    -0.011051267 -0.023679124  0.00162691  0.026333530 -0.032737235
## BGCR    0.012494330 -0.001020262  0.02027733 -0.005417454  0.004698514
## SOFR    -0.001020262  0.022620995 -0.01853874 -0.019191044  0.021467591
## ones_v  0.020277331 -0.018538744  0.58868938 -0.029606005  0.024099538
##          TGCR          BGCR          SOFR          ones_v          EFFR
## EFFR    0.026333530 -0.0054174537 -0.0191910435 -0.029606005  0.038744613
## OBFR    -0.032737235  0.0046985136  0.0214675909  0.024099538 -0.042025141
## TGCR    0.049833366 -0.0178269473 -0.0252246126 -0.001231179  0.043799004
## BGCR    -0.017826947  0.0190109131 -0.0007930852  0.017449841 -0.002063489
## SOFR    -0.025224613 -0.0007930852  0.0236513871 -0.013094726 -0.038292451
## ones_v -0.001231179  0.0174498412 -0.0130947261  0.541961682 -0.017039334
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFFR    -0.042025141  0.043799004 -0.002063489 -0.038292451 -0.017039334
## OBFR    0.051495515 -0.053116502  0.001491353  0.042074539  0.012750243
## TGCR    -0.053116502  0.062259961 -0.007667676 -0.044937880  0.004211474
## BGCR    0.001491353 -0.007667676  0.006928963  0.001082769 -0.007041732
## SOFR    0.042074539 -0.044937880  0.001082769  0.039925816  0.005116623
## ones_v  0.012750243  0.004211474 -0.007041732  0.005116623  0.396173909

```

```
print(result[[6]]) # Ftest
```

```

##          [,1] [,2] [,3]
## [1,] 64835.24  6    0
## [2,] 45526.88  6    0
## [3,] 43793.99  6    0
## [4,] 40925.88  6    0
## [5,] 66505.90  6    0

```

```

bvtablek10<-xtable(result[[1]])
sebvtablek10<-xtable(result[[2]])
R2adjtablek10<-xtable(result[[4]])
vtablek10<-xtable(result[[5]])
Ftesttablek10<-xtable(result[[6]])
rrbpk10table <- cbind(bvtablek10, sebvtablek10)

```

second try with rolling average rates for k=2, 5, 10

```

T<-nrow(rrbp2) # [1] 1709
lhv<- rrbp2[2:1709,1:5]
ones_v <- rep(1, times = T-1)
nrow(ones_v)

```

```
## NULL
```

```

rhv1<- rrbp2[1:1708,1:5]

rhv<- cbind(rhv1, ones_v) # Add a column of ones
nrow(lhv)

```

```
## [1] 1708
```

```
nrow(rhv)
```

```
## [1] 1708
```

```

nlag<-1
nw<-1

result <-olsghmmv2(lhv,rhv,nlag,nw) #constant

```

```

## [1] 1708
## [1] 1708
## [1] 1708
## [1] 5
## [1] 6
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 108.3004 104.7845 104.4116 105.5451 108.1030
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 3      -1.258918e-01 -6.392448e-01  2.105465e-01 -0.091760757 -4.596061e-01
## 4      -2.666260e-01  1.627527e-01  4.020724e-01  1.552358839 -4.903352e-01
## 5      -3.488400e-01  1.851867e-01 -5.333888e-01  0.199465988 -5.403424e-01
## 6      -2.558039e-01 -5.619293e-01 -1.423953e-01  1.651921035 -5.286365e-01
## 7      -3.865738e-01 -2.177137e-01 -5.780984e-01  0.312412722 -5.982230e-01
## 8      -3.486848e-01 -5.993836e-01 -1.137097e+00 -1.698726628 -1.001161e-01
## 9      -9.698566e-02 -7.941773e-01 -1.578548e+00 -1.695975899  2.336477e-01
## 10     1.613046e-01 -1.032636e+00 -2.070248e+00 -3.716246237  6.143116e-02
## 11     3.570305e-01 -1.415509e+00 -1.708074e+00 -3.998578819  1.655329e-01
## 12     4.358714e-01 -1.023825e+00 -6.956341e-01 -1.185079127  2.484170e-01

```



## 13	3.428353e-01	-2.767095e-01	1.913372e+00	4.362465826	2.367111e-01
## 14	-1.384347e-01	1.606606e+00	1.824760e+00	4.412261720	4.369849e-02
## 15	-2.649737e-01	1.269804e+00	-1.051609e-01	0.695336670	-5.820893e-02
## 16	-6.164362e-02	-2.082040e-01	1.858164e-01	0.074980509	-1.930517e-02
## 17	-1.233817e-01	-2.990934e-01	-1.213925e+00	-1.365592820	-2.692375e-02
## 18	5.186833e-02	-1.568643e+00	-8.874708e-01	1.939755076	3.478934e-02
## 19	-6.120866e+00	-9.463107e-01	6.263341e-01	2.590610232	-6.035678e-02
## 20	1.008101e+00	2.504414e+00	1.418324e+00	0.118466618	-2.903380e+00
## 21	5.608177e+00	-4.221807e-02	-8.190357e-01	-1.795816474	-1.471349e-01
## 22	-1.575938e+00	-2.627496e+00	-2.561018e+00	-3.287267255	2.682289e+00
## 23	1.406735e-01	-6.347419e-01	-2.259605e-03	-0.230373141	7.881617e-02
## 24	2.378836e-02	-3.601851e-01	1.480066e-01	0.365459134	5.759866e-02
## 25	-5.520770e-02	-4.672982e-01	-2.607255e-01	0.450152058	3.448810e-02
## 26	-7.246565e-02	1.647802e-02	-2.697159e-01	-0.024581688	1.899613e-02
## 27	-1.731865e-02	1.510319e-01	-3.197240e-01	-0.560987291	3.259506e-02
## 28	5.508629e-02	-1.981905e-01	-3.607418e-01	-0.122659149	6.168597e-02
## 29	5.508629e-02	-1.981905e-01	-3.607418e-01	1.877340851	6.168597e-02
## 30	-1.394549e-02	-2.630855e-01	-3.967030e-01	0.978405867	-2.819236e-04
## 31	-4.846137e-02	-7.955331e-01	-1.414684e+00	-3.971061625	-3.126587e-02
## 32	1.579314e-01	-1.618518e+00	-1.993269e+00	-3.755639395	9.430815e-02
## 33	2.985104e-01	-1.135945e+00	-1.581087e+00	-1.001566374	1.848109e-01
## 34	3.289506e-01	-7.070507e-01	8.274031e-01	2.427125238	1.883422e-01
## 35	-1.495843e-02	2.883849e-01	6.242437e-01	0.793408378	5.893565e-02
## 36	-6.265657e-02	3.432664e-01	-1.793237e+00	-3.110016980	3.991241e-02
## 37	3.363994e-01	-1.017615e+00	-1.140086e+00	-2.012705723	1.829179e-01
## 38	3.396174e-01	-6.471624e-01	-1.113357e+00	-1.575119949	2.098145e-01
## 39	3.807244e-01	-6.583794e-01	3.543740e-01	0.351326476	2.348181e-01
## 40	-3.332415e+00	-7.159436e-03	8.691778e-02	0.557117930	1.749980e-01
## 41	9.395750e-01	1.373827e+00	3.362641e-01	0.940993437	-1.446430e+00
## 42	3.589150e+00	-6.024950e-02	2.631427e-01	0.379328029	1.171029e-01
## 43	-8.029429e-01	-1.037132e+00	-8.626664e-01	-0.346300979	1.690416e+00
## 44	1.232603e-01	1.336047e-01	5.924582e-01	1.693085730	1.230978e-01
## 45	-1.410069e-02	5.214848e-01	-2.929949e-01	0.876598483	5.949170e-02
## 46	6.167741e-02	-2.418550e-01	-9.109918e-01	-0.145680216	5.570562e-02
## 47	1.234155e-01	-6.509657e-01	-5.112499e-01	-0.205106887	6.332420e-02
## 48	6.826853e-02	-2.855195e-01	-4.612418e-01	-0.168701283	4.972527e-02
## 49	6.826853e-02	-2.855195e-01	-4.612418e-01	-0.168701283	4.972527e-02
## 50	6.826853e-02	-2.855195e-01	3.875818e-02	1.331298717	4.972527e-02
## 51	-4.524341e-02	7.491983e-02	-3.879546e-01	0.966524150	-4.369237e-03
## 52	-2.461231e-02	-3.229738e-01	-1.455943e+00	-2.019348946	-2.175425e-02
## 53	1.678957e-01	-1.076300e+00	-1.620498e+00	-3.739267304	5.545081e-02
## 54	3.018835e-01	-1.050063e+00	-1.658066e+00	-3.462173216	1.519339e-01
## 55	4.186134e-01	-1.040049e+00	-1.204624e+00	-2.659812873	2.329251e-01
## 56	4.390893e-01	-6.533726e-01	8.310950e-01	1.252506647	2.753137e-01
## 57	1.296962e-01	3.745105e-01	1.459162e-01	0.568257279	1.768911e-01
## 58	1.437362e-01	5.202813e-01	-1.371823e+00	-1.394594749	1.654864e-01
## 59	4.120223e-01	-9.963847e-01	-1.154374e+00	-1.636791806	2.389054e-01
## 60	3.979823e-01	-1.142156e+00	3.633644e-01	1.826060222	2.503101e-01
## 61	-3.922078e+00	8.258392e-01	6.189452e-01	3.644056041	1.304152e-01
## 62	9.110770e-01	1.983382e+00	4.884597e-01	0.853333383	-1.792446e+00
## 63	3.994870e+00	-4.655618e-01	-2.575159e-01	0.092019956	2.050845e-02
## 64	-9.895307e-01	-1.665566e+00	-1.598453e+00	-0.869085221	1.831394e+00
## 65	9.870872e-02	-3.566248e-01	-5.275157e-02	0.759990329	5.325653e-02
## 66	2.454717e-03	2.003830e-02	5.295259e-01	1.369949508	1.465401e-02

## 67	-1.176484e-01	4.241422e-01	1.530632e-01	0.528196007	-3.346014e-02
## 68	-8.635042e-02	8.613683e-02	1.144315e+00	1.040077725	-2.937283e-02
## 69	-2.509337e-01	4.155751e-01	1.377100e+00	1.732484641	-6.961359e-02
## 70	-3.776279e-01	3.633436e-01	-4.491123e-01	-0.586247792	-1.117474e-01
## 71	-1.710799e-01	-2.442118e-01	3.685940e-01	1.230981822	-4.594699e-02
## 72	2.326661e-01	1.324513e-01	4.508715e-01	2.840941000	-8.454952e-02
## 73	2.362862e-02	-1.006843e-01	-1.217698e+00	-0.196895510	-4.279684e-01
## 74	-3.966469e-01	-1.463809e+00	-1.133100e+00	-2.064609557	-1.555798e-01
## 75	-2.379838e-01	-9.114870e-01	-4.655446e-01	-0.514313874	1.664781e-01
## 76	-1.376857e-01	1.358285e-01	2.252903e-01	1.634801637	-5.195957e-02
## 77	-1.960507e-01	1.308218e-01	1.248569e+00	4.733621466	-9.245513e-02
## 78	1.856050e-02	8.466937e-01	8.418423e+00	7.102892161	-2.411397e-01
## 79	-7.060564e-01	4.298646e+00	6.182045e+00	6.145201207	-3.031939e-01
## 80	-8.559744e-01	2.267222e+00	-2.262292e+00	1.757189819	-1.062308e-01
## 81	-4.385706e-01	-2.080193e+00	-3.448227e+00	-3.548467078	7.135047e-02
## 82	-4.114526e-01	-2.200559e+00	-1.279284e+00	4.542535832	-2.888277e-03
## 83	-6.063588e+00	-1.155694e+00	-6.698460e-01	-0.054183297	-3.999123e-01
## 84	7.000957e-01	8.510295e-01	-2.739558e+00	-8.532253946	-2.897174e+00
## 85	5.022319e+00	-3.049030e+00	-2.785289e+00	-5.093144398	-7.585149e-02
## 86	-1.581896e+00	-3.449366e+00	-2.026302e+00	-2.248850190	2.304468e+00
## 87	2.128022e-01	-1.192196e-01	1.749532e-01	3.438456438	-1.658040e-01
## 88	-1.079287e-01	1.067906e-02	8.044263e-02	1.036770724	-6.153564e-02
## 89	-1.490357e-01	-4.781039e-01	-1.387288e+00	-1.889675701	-8.653923e-02
## 90	4.347231e-02	-1.231430e+00	-1.551843e+00	-1.609594058	-9.334175e-03
## 91	1.084284e-01	-7.700880e-01	-1.253721e-01	-0.231434954	2.518104e-02
## 92	-8.456730e-03	4.468828e-03	2.489415e-02	1.364397320	3.963524e-03
## 93	-6.682168e-02	-5.379401e-04	-9.518268e-01	-1.036782851	-3.653204e-02
## 94	8.457932e-02	-1.242647e+00	-2.584112e+00	-3.683147633	1.566942e-02
## 95	3.420434e-01	-2.034631e+00	-2.322196e+00	-3.024906887	1.273897e-01
## 96	3.929595e-01	3.578094e+01	3.562201e+01	32.816104246	1.733096e-01
## 97	-1.299622e+00	2.246905e+00	4.237922e+00	5.225886759	-4.416859e-01
## 98	-1.577717e+00	-3.406322e+01	-3.245600e+01	-29.946480892	-5.360211e-01
## 99	-3.246100e-02	3.164799e-01	-1.330138e+00	-1.689122742	5.422552e-02
## 100	2.530830e-01	-6.839624e-01	-1.103700e+00	-0.956586053	1.431365e-01
## 101	2.769321e-01	-7.114031e-01	-6.449593e-01	-0.004873374	1.526481e-01
## 102	2.045272e-01	-3.621808e-01	-6.039415e-01	0.056798484	1.235572e-01
## 103	-4.812731e+00	1.121595e+00	8.870682e-01	3.082064738	1.080652e-01
## 104	1.208257e+00	3.759584e+01	3.671357e+01	34.699880191	-2.263043e+00
## 105	3.274538e+00	3.610335e+01	3.681959e+01	33.085781490	-6.440026e-01
## 106	-4.353443e+00	1.658519e+00	3.967478e+00	4.770034557	1.129241e+00
## 107	-3.026719e+00	-3.031958e+01	-2.866415e+01	-23.813798220	-1.087665e+00
## 108	-1.543046e+00	-3.231534e+01	-3.204173e+01	-28.895206016	-5.648108e-01
## 109	7.139707e-02	-6.553181e-01	-1.483612e+00	-3.137105499	2.763012e-02
## 110	2.432740e-01	-1.010751e+00	-1.080179e+00	-1.371150761	1.222202e-01
## 111	2.292340e-01	-6.565216e-01	4.375601e-01	1.091701268	1.336249e-01
## 112	-1.163075e-03	-2.152545e-02	6.611136e-01	2.322758975	5.831284e-02
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## 115	-9.726187e-02	7.056735e-02	-8.603170e-01	-0.965474463	-4.006331e-02
## 116	5.413913e-02	-6.715419e-01	-4.926026e-01	-0.111839245	1.213815e-02
## 117	-1.007867e-03	-8.060958e-01	-9.425945e-01	0.424566359	-1.460784e-03
## 118	-1.167469e-02	-8.659841e-01	-2.001835e+00	-3.073188455	-2.293311e-02
## 119	2.219403e-01	-1.130527e+00	-2.198659e+00	-5.366660387	-4.920724e+00
## 120	-9.124316e-01	-3.121186e+00	-2.127879e+00	-1.604553351	-2.566840e+00

## 121	-1.095130e+00	-2.041071e+00	-9.868448e-01	0.029929714	2.376872e+00
## 122	9.423319e-02	3.687115e-01	-3.925311e-03	1.629609691	9.635932e-02
## 123	7.375729e-02	-1.796517e-02	-5.396446e-01	1.717290170	5.397071e-02
## 124	5.987251e-02	-4.483064e-01	-1.125614e+00	-0.218050418	5.601753e-03
## 125	1.216106e-01	-8.574170e-01	2.741278e-01	3.722522912	1.322033e-02
## 126	-5.195076e+00	1.964603e-01	4.527297e-01	2.079911889	-1.395516e-01
## 127	8.842766e-01	2.175707e+00	7.559497e-01	-0.401092486	-2.470165e+00
## 128	4.760727e+00	-5.396330e-01	-7.177375e-01	-1.039423254	-1.545812e-01
## 129	-1.342475e+00	-2.991439e+00	-1.979698e+00	-4.510131558	2.166520e+00
## 130	3.265028e-02	-1.006748e+00	-5.073753e-01	-1.209156255	2.896712e-02
## 131	1.201917e-02	-1.088545e-01	5.606135e-01	3.276716841	4.635213e-02
## 132	-1.771157e-01	7.303543e-01	1.481894e-01	1.036028357	-6.372991e-02
## 133	-1.079287e-01	1.067906e-02	-9.195574e-01	-0.963229276	-6.153564e-02
## 134	4.347231e-02	-7.314302e-01	-5.518430e-01	-0.109594058	-9.334175e-03
## 135	-1.167469e-02	-3.659841e-01	-1.834875e-03	0.926811545	-2.293311e-02
## 136	-1.079287e-01	1.067906e-02	-4.195574e-01	-1.463229276	-6.153564e-02
## 137	-1.007867e-03	-8.060958e-01	-2.942595e+00	-3.575433641	-1.460784e-03
## 138	3.733413e-01	-2.372637e+00	-2.330945e+00	-2.013025169	1.314770e-01
## 139	3.345945e-01	-1.724067e+00	-8.547078e-01	-1.085075925	1.328140e-01
## 140	1.864115e-01	-6.115045e-01	-6.956932e-01	-0.001125368	1.075092e-01
## 141	1.691535e-01	-1.277282e-01	7.953165e-01	4.024140886	9.201720e-02
## 142	-1.162353e-01	5.881437e-01	4.651699e-01	3.893411581	-5.666738e-02
## 143	-2.123341e-01	1.802365e-01	2.443739e+00	5.605178143	-1.550435e-01
## 144	-6.623062e-01	1.725547e+00	4.346378e+00	11.166855754	-3.439689e-01
## 145	-1.249484e+00	2.874167e+00	2.759856e+00	9.513853501	-6.562739e-01
## 146	-1.337979e+00	1.371125e+00	3.667229e+00	14.387596485	-8.198480e-01
## 147	-7.425859e+00	2.002075e+00	-3.105762e+00	-9.746788489	-1.192483e+00
## 148	6.015086e-01	-1.361734e+00	-3.020319e+00	-13.490193437	-3.165327e+00
## 149	5.282687e+00	-3.390655e+00	8.328927e-01	3.389420939	-2.551865e-01
## 150	-2.201125e+00	-1.017032e+00	-2.474019e+00	-6.096821338	2.038393e+00
## 151	-2.023120e-01	-1.431028e+00	-2.775465e+00	-4.585082503	-1.587997e-01
## 152	6.135170e-01	-2.218006e+00	-3.036828e+00	-4.025661586	-6.583857e-03
## 153	6.683795e-01	-2.002219e+00	-3.900242e-01	-2.030085800	-1.844892e-01
## 154	-1.783294e-01	-2.783342e-01	7.633692e-01	1.411975676	2.803296e-02
## 155	-2.392414e-01	6.843022e-01	-1.389989e+00	0.292891263	2.364775e-01
## 156	1.706050e-01	-1.080836e+00	-1.617684e+00	-0.271936474	5.668881e-02
## 157	1.837873e-01	-1.168165e+00	-1.718184e+00	-1.817978608	4.472810e-02
## 158	2.487434e-01	-1.206822e+00	-2.791713e+00	-5.439819504	7.924332e-02
## 159	5.579813e-01	-1.950135e+00	-1.002826e+00	-2.357377519	2.374395e-01
## 160	3.891671e-01	-4.396793e-01	-1.275823e+00	-1.287553866	2.295197e-01
## 161	4.681632e-01	-8.325662e-01	-3.670906e-01	0.627753209	2.526302e-01
## 162	2.995042e-01	-1.066807e-01	2.562047e-01	1.799384245	1.849368e-01
## 163	1.448853e-01	2.649756e-01	-1.382387e-01	1.008163253	1.058387e-01
## 164	1.416673e-01	-1.054773e-01	8.350323e-01	2.570577478	7.894208e-02
## 165	-9.194768e-02	6.590660e-01	-9.681433e-01	-1.135950589	-2.326657e-02
## 166	1.697473e-01	-1.313936e+00	-7.004451e-01	1.144873421	5.613276e-02
## 167	-4.992321e+00	-6.317146e-01	-1.127400e+00	-0.706516610	-1.754103e-02
## 168	1.248242e+00	1.432212e+00	-9.799864e-01	-2.919321060	-2.275036e+00
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## 170	-1.323276e+00	-1.472600e+00	-5.015547e-01	0.254732903	2.231686e+00
## 171	-8.535656e-02	1.154014e-01	-1.518393e+00	-2.658971656	-2.924692e-02
## 172	2.347034e-01	-1.352593e+00	-1.773974e+00	-2.476967475	9.064798e-02
## 173	3.169174e-01	-8.750273e-01	-3.385130e-01	-0.124074625	1.406552e-01
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## 190 -7.871695e-01 -2.152221e+00 -2.255534e+00 -2.535083361 2.557845e+00
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## 193 5.947022e-01 -4.957643e-01 5.628303e-01 0.844678259 3.545377e-01
## 194 3.404560e-01 6.666726e-01 8.276434e-01 1.124023287 2.697140e-01
## 195 2.516509e-01 7.327711e-01 -1.557568e+00 -1.705848496 2.256872e-01
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## 198 1.125394e+01 8.568075e+00 1.370325e+01 13.340902849 -1.865167e-01
## 199 7.643506e+00 5.092953e+00 -1.511944e+00 -2.558824106 5.250010e+00
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## 205 3.383325e-01 4.708284e-01 1.174256e+00 0.907626843 2.246535e-01
## 206 1.877892e-01 9.460376e-01 -1.110697e+00 -1.362818270 1.730081e-01
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## 209 1.918858e+00 1.139104e+00 2.822234e+00 4.173974600 -2.179610e+00
## 210 5.475894e+00 1.205325e+00 7.601420e-01 1.107212883 9.151076e-02
## 211 -1.256492e+00 -1.639404e+00 -3.178894e+00 -3.402834751 2.592860e+00
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## 217 2.874164e-01 1.552571e-01 7.300467e-01 2.566615710 1.787336e-01
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## 323 1.022101e+01 9.508282e+00 1.422416e+01 14.061951846 -8.425100e-01
## 324 6.793270e+00 4.953046e+00 -3.132071e+00 -3.972258174 4.650305e+00
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## 364 5.056713e-02 -5.233584e-01 9.915030e-02 2.112292242 -7.281359e-02
## 365 -1.213098e-01 -1.679258e-01 -8.042834e-01 -0.153662496 -1.674037e-01
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## 375 2.537420e-01 -1.216796e+00 -1.506164e+00 -2.109871302 2.586379e-02
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## 377 -4.697088e+00 5.954140e-01 3.137134e-01 2.368616203 -1.636176e-01
## 378 8.418863e-01 1.615640e+00 -6.749315e-01 -3.321855719 -2.269956e+00
## 379 4.549032e+00 -1.687381e+00 -1.681337e+00 -3.542128682 -9.749834e-02
## 380 -9.347956e-01 -3.073053e+00 -2.742700e+00 -2.888062363 2.022439e+00
## 381 2.775910e-01 -1.244237e+00 -1.047424e+00 -0.658158623 3.537541e-02
## 382 2.051861e-01 -8.950148e-01 -1.006406e+00 -1.096486766 6.284505e-03
## 383 2.051861e-01 -8.950148e-01 -1.006406e+00 -0.596486766 6.284505e-03
## 384 1.879281e-01 -9.112385e-01 -5.153966e-01 -0.571220512 -9.207468e-03
## 385 1.089321e-01 -5.183517e-01 7.587122e-02 1.013472413 -3.231802e-02
## 386 -2.842893e-02 -1.304715e-01 -3.095819e-01 1.696985167 -9.592415e-02
## 387 -6.616277e-02 -5.333720e-01 -1.854292e+00 -3.190068100 -1.538047e-01
## 388 1.987502e-01 -1.635921e+00 -2.559864e+00 -5.471658315 -4.750876e-02
## 389 4.289920e-01 -1.986346e+00 -1.679710e+00 -2.804523406 8.757688e-02
## 390 3.770630e-01 -1.250447e+00 -1.102973e+00 -1.330532027 1.008746e-01

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## 391 8.219160e-01 -8.850012e-01 -5.529644e-01 -0.794126423 8.727564e-02
## 392 1.267633e-01 -6.877957e-01 -1.135565e+00 -1.396622346 -2.077743e-01
## 393 -3.180898e-01 -1.053242e+00 -1.685573e+00 -1.933027950 -1.941754e-01
## 394 3.770630e-01 -1.250447e+00 -1.102973e+00 -1.330532027 1.008746e-01
## 395 3.219160e-01 -8.850012e-01 -1.052964e+00 -1.294126423 8.727564e-02
## 396 3.219160e-01 -8.850012e-01 9.470356e-01 3.205873577 8.727564e-02
## 397 -5.080358e+00 6.054275e-01 -2.328448e-01 0.170976545 -8.262645e-02
## 398 1.205543e+00 1.477119e+00 -1.111918e+00 -2.992798216 -2.347439e+00
## 399 5.263834e+00 -2.051436e+00 -1.309401e+00 -1.348802154 2.387707e-02
## 400 -1.039325e+00 -2.939351e+00 -1.939318e+00 -2.159761139 2.273198e+00
## 401 2.084040e-01 -5.245619e-01 -4.796773e-01 -0.658900991 3.318114e-02
## 402 1.845550e-01 -4.971211e-01 -9.384175e-01 -1.110613670 2.366952e-02
## 403 2.397020e-01 -8.625673e-01 -9.884256e-01 -1.147019273 3.726845e-02
## 404 2.397020e-01 -8.625673e-01 -9.884256e-01 -1.147019273 3.726845e-02
## 405 2.397020e-01 -8.625673e-01 -1.488426e+00 -1.647019273 3.726845e-02
## 406 3.186980e-01 -1.255454e+00 -5.796935e-01 0.268287802 6.037901e-02
## 407 1.500391e-01 -5.295687e-01 4.360182e-02 0.439918838 -7.314429e-03
## 408 2.993603e-02 -1.254648e-01 -8.328610e-01 -1.401834662 -5.542858e-02
## 409 1.574880e-01 -8.401333e-01 -9.238869e-01 -0.999912123 -1.273874e-02
## 410 1.574880e-01 -8.401333e-01 7.611315e-02 0.500087877 -1.273874e-02
## 411 -1.776211e-02 -5.705832e-01 2.496585e-01 0.694739980 -7.445182e-02
## 412 -1.378652e-01 -6.664793e-01 -1.126804e+00 -1.147013520 -1.225660e-01
## 413 -3.722121e-03 -3.792481e+01 -3.876808e+01 -37.768112049 -8.585648e-02
## 414 1.884585e+00 -4.027365e+01 -4.052182e+01 -38.960227145 6.332406e-01
## 415 3.446241e+00 -4.610829e+00 -5.469720e+00 -4.811325354 1.238423e+00
## 416 3.212626e+00 3.165371e+01 2.872710e+01 25.982146578 1.136215e+00
## 417 1.753815e+00 3.257057e+01 3.254248e+01 30.700264542 5.636542e-01
## 418 -4.545687e+00 -1.466953e-01 -3.185722e-01 0.722251421 -1.114161e-01
## 419 9.965053e-01 1.243984e+00 2.195119e-01 0.969365274 -2.190858e+00
## 420 4.369706e+00 -1.021384e+00 -1.172823e-01 0.631747541 -1.866641e-01
## 421 -1.327105e+00 -2.040406e+00 -2.549810e+00 -1.906587304 1.813680e+00
## 422 3.346440e-02 -1.324153e+00 -1.513548e+00 -2.760634121 -1.480792e-01
## 423 1.090873e-01 -1.302922e+00 -1.027837e+00 -1.884720203 -9.209164e-02
## 424 8.845618e-02 -9.050283e-01 -4.598481e-01 1.101152892 -7.470663e-02
## 425 -4.231370e-02 -5.608127e-01 -3.955513e-01 -0.238355421 -1.442931e-01
## 426 -6.616277e-02 -5.333720e-01 -8.542915e-01 -0.690068100 -1.538047e-01
## 427 -1.101578e-02 -8.988181e-01 -9.042996e-01 -0.226473704 -1.402058e-01
## 428 -2.827372e-02 -9.150419e-01 5.867100e-01 2.298792550 -1.556978e-01
## 429 -3.170357e-01 2.149475e-01 1.333543e+00 3.128670086 -2.715054e-01
## 430 -5.193528e-01 6.414854e-01 -9.783814e-01 -1.065976264 -3.696267e-01
## 431 -2.025108e-01 -1.196962e+00 -2.260691e+00 -3.321557858 -2.766284e-01
## 432 3.110418e-02 -1.961505e+00 -2.457516e+00 -4.115029790 -1.744198e-01
## 433 1.716831e-01 -1.978933e+00 -2.045334e+00 -4.360956769 -8.391702e-02
## 434 2.505240e-01 -1.587249e+00 -3.289337e-02 -0.547457077 -1.032842e-03
## 435 -5.041631e-04 -5.435947e-02 -2.413512e-01 1.169473726 -5.895985e-02
## 436 -2.098006e-02 -4.410361e-01 -1.777071e+00 -2.242845795 -1.013485e-01
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## 439 -3.812072e+00 -9.112385e-01 -5.153966e-01 0.428779488 -9.207468e-03
## 440 1.003670e+00 1.014651e+00 -5.511644e-01 -1.938484299 -2.387787e+00
## 441 4.024898e+00 -1.578708e+00 -4.432652e-01 0.538140028 -2.985143e-01
## 442 -1.128161e+00 -2.052827e+00 -6.609068e-01 -0.251334111 1.944678e+00
## 443 -8.357592e-02 2.349746e-01 -2.595738e-01 -0.766609229 -1.095231e-01
## 444 2.012695e-02 -4.522531e-01 -1.809340e+00 -1.816399370 -7.634486e-02

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## 445 2.332661e-01 -1.603473e+00 -2.041884e+00 -2.522190823 -1.652482e-02
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## 447 2.051861e-01 -8.950148e-01 -5.064063e-01 -0.596486766 6.284505e-03
## 448 1.261900e-01 -5.021279e-01 1.208486e+01 12.488206159 4.831740e-01
## 449 1.074837e+01 9.496907e+00 1.503066e+01 16.317059015 1.600758e-01
## 450 7.231793e+00 5.828195e+00 -5.471544e-01 -0.308723978 4.824371e+00
## 451 -3.541913e+00 -4.185838e+00 -3.906456e+00 -3.965316476 5.043407e+00
## 452 3.848733e-01 -9.412347e-01 -8.423978e-01 -0.726699797 2.826676e-01
## 453 4.069037e-01 -9.712703e-01 1.155705e-01 -0.775912483 2.903974e-01
## 454 -1.945420e-01 -1.830847e-01 7.740551e-01 0.793728173 -2.171098e-01
## 455 -3.212362e-01 2.646837e-01 -5.215765e-02 0.474995740 -2.592436e-01
## 456 -2.520492e-01 -4.549916e-01 -6.199045e-01 -0.524261892 -2.570494e-01
## 457 -1.969022e-01 -8.204377e-01 -6.699126e-01 -0.560667496 -2.434504e-01
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## 460 5.294609e-01 1.357219e+00 -8.704653e-01 -1.872974561 -2.475108e+00
## 461 4.208681e+00 -2.021915e+00 -4.451017e-01 0.434263917 -3.396147e-01
## 462 -1.574575e+00 -1.837486e+00 -1.318873e+00 -4.579547042 1.643043e+00
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## 466 1.451361e-01 -2.497503e+00 -2.528568e+00 0.304861770 -5.538238e-02
## 467 1.131356e-01 -6.771676e-01 -7.062889e-01 2.811597331 -1.197994e-01
## 468 -3.151903e-02 7.367068e-01 7.720386e-01 3.036748430 -2.377548e-01
## 469 -1.959471e-01 1.281575e+00 1.401116e+00 0.330962730 -3.377692e-01
## 470 -2.634186e-01 -5.325501e-01 -3.656142e-01 -3.503399427 -3.388514e-01
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## 472 -1.929194e-02 -2.452635e+00 -2.399490e+00 -3.400923930 -1.553968e-01
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## 474 1.172113e-01 -1.573615e+00 -1.596798e+00 1.332373211 -9.234668e-02
## 475 3.751274e-02 3.016019e-01 3.079999e-01 1.435683414 -1.757869e-01
## 476 -6.855034e-02 3.514766e-01 4.137984e-01 -0.868922115 -2.353057e-01
## 477 -8.832371e-02 -1.017530e+00 -9.354515e-01 -1.799858914 -2.173647e-01
## 478 -5.380782e-02 -1.485082e+00 -1.417471e+00 -2.350391422 -1.863807e-01
## 479 4.557129e-03 -1.480075e+00 -1.440750e+00 1.550788749 -1.458851e-01
## 480 -4.075141e+00 1.395141e+00 1.464048e+00 -0.845901048 -2.293254e-01
## 481 8.211563e-01 6.789143e-01 6.062436e-01 -2.733284933 -2.023908e+00
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## 483 -1.042575e+00 -2.300234e+00 -2.018721e+00 -3.651840376 1.657256e+00
## 484 1.146959e-01 -1.926397e+00 -1.937058e+00 -2.623829842 -5.891365e-02
## 485 1.796520e-01 -1.965055e+00 -2.010587e+00 0.754329262 -2.439844e-02
## 486 1.238025e-01 -1.172793e-01 -1.470485e-01 0.809352144 -9.832703e-02
## 487 4.158844e-02 -9.484531e-02 -8.250971e-02 -1.543540706 -1.483342e-01
## 488 4.566414e-02 -1.491292e+00 -1.473019e+00 -1.522764826 -1.208815e-01
## 489 6.951320e-02 -1.018733e+00 -1.014279e+00 -1.571052147 -1.113699e-01
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## 496 -6.699007e-02 6.022468e-01 6.830292e-01 -0.304349288 -1.744200e-01
## 497 -1.040214e-01 -7.829834e-01 -6.752110e-01 -0.710019833 -1.719709e-01
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```

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## 499 -3.690311e+00 1.135898e+00 1.279837e+00 2.916311437 -2.494308e-01
## 500 4.756156e-01 3.066759e+00 3.134982e+00 3.495581415 -1.930377e+00
## 501 2.889060e+00 5.444431e-01 9.184257e-01 0.271184887 -4.356204e-01
## 502 -1.437219e+00 -1.737997e+00 -1.198151e+00 -2.493094912 1.172764e+00
## 503 -4.181349e-01 -5.298063e-01 -2.483251e-01 -1.103060540 -3.230747e-01
## 504 -3.836190e-01 -4.973588e-01 -2.303445e-01 1.846406952 -2.920907e-01
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## 506 -5.414560e-01 5.038447e-01 8.484831e-01 -0.882399815 -3.980855e-01
## 507 -5.201223e-01 -8.763787e-01 -5.330362e-01 -0.886890189 -3.551408e-01
## 508 -4.790153e-01 -3.875957e-01 -6.530559e-02 0.039556236 -3.301372e-01
## 509 -4.790153e-01 -3.875957e-01 -6.530559e-02 5.539556236 -3.301372e-01
## 510 -6.688527e-01 4.433943e+00 4.835801e+00 3.317485030 -5.005489e-01
## 511 -3.383116e-01 3.273246e+00 3.784359e+00 -1.800706776 -3.369723e-02
## 512 -2.761292e-01 -2.370020e+00 -1.860971e+00 0.184896738 9.335498e-02
## 513 -7.038852e-01 -1.021541e-01 3.547379e-01 0.495312463 -4.133249e-01
## 514 -7.038852e-01 8.978459e-01 1.354738e+00 9.995312463 8.667506e-02
## 515 1.159322e+01 8.342569e+00 8.916258e+00 12.159389584 8.395755e-02
## 516 8.335765e+00 6.001556e+00 7.357855e+00 -0.435139714 4.825984e+00
## 517 -3.959105e+00 -1.562922e+00 -3.054837e-01 -2.718925591 4.803181e+00
## 518 -6.994176e-01 6.583372e-01 1.151101e+00 0.755894952 -4.643658e-01
## 519 -7.298578e-01 -2.705575e-01 2.426106e-01 0.827203340 -4.678971e-01
## 520 -7.471158e-01 4.213219e+00 4.733620e+00 4.352469594 -4.833890e-01
## 521 -9.444994e-01 3.476409e+00 4.113948e+00 4.761789229 5.446498e+00
## 522 5.295452e-01 3.140019e+00 3.475813e+00 4.280780673 2.720456e+00
## 523 9.645891e-01 -1.321324e+00 -9.506578e-01 -0.097378431 -2.814059e+00
## 524 -5.219409e-01 -5.547416e+00 -4.872535e+00 -3.115050053 -1.112709e-01
## 525 -7.893445e-01 -4.279715e-01 1.046053e-01 0.880375492 -5.453892e-01
## 526 -8.066024e-01 -4.441953e-01 9.561502e-02 0.405641746 -5.608811e-01
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## 529 -8.238604e-01 -1.460419e+00 -9.133753e-01 -0.569092000 -5.763731e-01
## 530 -7.761623e-01 -1.515301e+00 -9.958947e-01 -1.665666642 -5.573499e-01
## 531 -6.939482e-01 4.622655e-01 9.395665e-01 2.187226208 -5.073427e-01
## 532 -7.761623e-01 4.846995e-01 1.004105e+00 2.334333358 -5.573499e-01
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## 537 -4.908050e-01 8.925334e-02 4.978738e-01 -0.296638526 3.068418e-01
## 538 -3.419510e-01 -1.852127e-01 1.889506e-01 0.839092449 1.079834e-01
## 539 -3.592089e-01 -7.014365e-01 -3.200397e-01 0.864358703 9.249146e-02
## 540 -3.698758e-01 2.386752e-01 6.207199e-01 0.866603890 7.101913e-02
## 541 -3.937248e-01 1.766116e+00 2.661980e+00 2.914891211 6.150751e-02
## 542 -5.681172e-01 7.687659e-01 1.418286e+00 2.692733420 -4.996495e-01
## 543 -7.885183e-01 -8.744457e-01 -6.490113e-01 -0.298135592 -3.293260e-01
## 544 -6.856732e-01 -2.947734e-01 2.184612e-01 -0.431115838 2.032962e-01
## 545 -1.297016e-02 -1.096680e+00 -6.317218e-01 -0.843672184 1.394941e-02
## 546 -6.417076e-02 -1.831019e+00 -1.379119e+00 -1.152701927 -2.234748e-01
## 547 -6.087802e-01 -6.090229e-01 -1.767663e-01 0.015247262 -4.668793e-01
## 548 -6.087802e-01 -1.090229e-01 3.232337e-01 0.515247262 -4.668793e-01
## 549 -6.326293e-01 -8.158212e-02 3.644934e-01 0.563534583 -4.763910e-01
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## 552 -7.280256e-01 1.028181e+00 1.529532e+00 3.256683867 -5.144374e-01

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## 562 -6.762517e-01 -4.231478e-01 5.650325e-02 -0.319114895 -4.679615e-01
## 563 -6.589938e-01 3.593076e+00 4.065494e+00 4.655618851 -4.524695e-01
## 564 -8.670443e-01 3.296378e+00 3.886581e+00 5.067183673 -5.440545e-01
## 565 -1.068504e+00 -1.043984e+00 -3.425817e-01 0.455727428 -6.416198e-01
## 566 -1.038063e+00 -2.615089e+00 -1.934091e+00 -2.115580960 -6.380885e-01
## 567 -9.015602e-01 -3.236069e+00 -2.631400e+00 -2.882283819 -5.750384e-01
## 568 -7.412078e-01 -1.884490e+00 -1.369968e+00 -1.697273999 -5.024767e-01
## 569 -6.524027e-01 -1.950589e+00 -1.484756e+00 -1.867402216 -4.584499e-01
## 570 -5.635975e-01 -2.016687e+00 -1.599545e+00 -1.037530433 -4.144231e-01
## 571 -5.093083e-01 -1.615233e+00 -1.232315e+00 -1.157126142 -4.013802e-01
## 572 -4.616102e-01 3.298854e-01 6.851658e-01 0.746299216 -3.823569e-01
## 573 9.490692e+00 1.038477e+01 1.076769e+01 11.342873858 -4.013802e-01
## 574 6.625621e+00 5.558614e+00 6.689046e+00 7.186684224 3.935084e+00
## 575 -3.404160e+00 -5.036949e+00 -3.876643e+00 -2.854844134 3.893469e+00
## 576 -6.272340e-01 -2.311365e+00 -1.840414e+00 -1.641363029 -5.251063e-01
## 577 -5.568677e-02 -1.893688e+00 -1.464193e+00 -1.786224992 3.428550e-03
## 578 3.129979e-02 -1.462381e+00 -1.079754e+00 -0.957278573 5.456736e-01
## 579 -2.846335e-01 2.645788e+00 2.968791e+00 2.083197582 3.425844e-01
## 580 -2.788739e-01 2.535967e+00 2.907426e+00 2.008652483 8.665630e-02
## 581 -3.874524e-01 -7.669414e-01 -3.270352e-01 -0.752156099 6.057052e-02
## 582 -3.463454e-01 -7.781584e-01 -3.593046e-01 -0.325709674 8.557411e-02
## 583 -3.224963e-01 1.944009e-01 5.994357e-01 1.626003005 -4.049143e-01
## 584 -1.019048e+00 1.052375e+01 1.099088e+01 11.086846672 -7.250791e-01
## 585 -1.065758e+00 5.157481e+00 5.940624e+00 6.698380420 -4.420647e-01
## 586 -8.215070e-01 -6.084335e+00 -4.655769e+00 -4.293480116 -5.526728e-01
## 587 -1.206622e+00 -2.743860e+00 -1.774746e+00 -2.523711212 -7.240717e-01
## 588 -1.052861e+00 -3.848616e+00 -3.463064e+00 -2.815680325 -6.455297e-01
## 589 -8.241791e-01 -4.449812e+00 -3.852140e+00 -3.713118243 -5.713297e-01
## 590 -6.333865e-01 -2.169338e+00 -1.682218e+00 -2.099416811 -4.952368e-01
## 591 -5.445814e-01 -1.235436e+00 -7.970067e-01 -0.269545028 -4.512099e-01
## 592 -5.379903e-01 -7.791010e-01 -3.472567e-01 0.207433905 -4.571903e-01
## 593 -5.552482e-01 -2.953247e-01 1.437530e-01 0.232700159 -4.726823e-01
## 594 -5.790973e-01 1.732116e+00 2.185013e+00 2.280987480 -4.821939e-01
## 595 -6.983426e-01 8.693198e-01 1.891311e+00 1.022424085 -5.297520e-01
## 596 -8.143700e-01 -3.123023e+00 -2.375661e+00 -2.298553535 -5.504135e-01
## 597 -6.951247e-01 -1.760227e+00 -1.581960e+00 -1.039990140 -5.028554e-01
## 598 -5.856884e-01 -1.224219e+00 -7.647373e-01 -1.195991453 -4.762135e-01
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## 602 -5.339146e-01 -6.755482e-01 -2.377663e-01 -0.271790215 -4.297376e-01
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## 604 -5.577637e-01 -2.148107e+00 -1.696507e+00 -1.223502894 -4.392492e-01
## 605 -1.003474e+00 1.253347e+00 1.670724e+00 2.156901397 -4.262063e-01
## 606 -9.999719e-01 -4.574328e-01 6.405976e-04 0.062505783 -2.078054e-01

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## 607 1.161848e-01 -7.617515e-01 -3.254913e-01 -0.750305370 6.413401e-02
## 608 -4.588649e-01 -1.968650e+00 -1.531629e+00 -1.011047792 -1.828018e-01
## 609 -4.045757e-01 -3.567196e+00 -3.164398e+00 -2.630643501 -1.697589e-01
## 610 2.212608e-01 7.519358e-01 1.079053e+00 0.104898827 -1.281812e-01
## 611 -4.319272e-01 6.710243e-01 1.046945e+00 0.512039434 -3.976715e-01
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## 613 -5.816127e-01 -6.206666e-01 -1.552469e-01 0.824784427 -4.487609e-01
## 614 -6.161286e-01 -1.153114e+00 -6.732275e-01 -0.124683065 -4.797448e-01
## 615 -6.095375e-01 1.303221e+00 1.776522e+00 1.352295868 -4.857252e-01
## 616 -6.876758e-01 3.429208e+00 3.950552e+00 3.520178898 -5.082797e-01
## 617 -8.612104e-01 3.164958e+00 3.789620e+00 3.381211212 -5.688807e-01
## 618 -1.010896e+00 -3.626733e+00 -2.912572e+00 -3.306043795 -1.199700e-01
## 619 -6.885073e-01 -4.636949e+00 -4.060563e+00 -4.031345134 2.417726e-01
## 620 -3.356786e-01 -1.218270e+00 -8.000643e-01 0.172045139 1.070464e-01
## 621 -3.224963e-01 -3.055991e-01 9.943568e-02 0.126003005 9.508573e-02
## 622 -3.224963e-01 1.694401e+00 2.099436e+00 2.126003005 9.508573e-02
## 623 -4.178926e-01 2.304164e+00 2.764475e+00 2.819152289 5.703925e-02
## 624 -5.371379e-01 9.413677e-01 1.470773e+00 1.060588894 9.481144e-03
## 625 -5.675781e-01 1.247304e-02 5.622829e-01 0.631897282 5.949876e-03
## 626 -5.675781e-01 -9.875270e-01 -4.377171e-01 -0.368102718 5.949876e-03
## 627 -5.198800e-01 -1.042408e+00 -5.202366e-01 -0.464677360 2.497312e-02
## 628 -4.721818e-01 1.402710e+00 1.897244e+00 2.438747998 4.399636e-02
## 629 -5.609870e-01 4.688085e-01 1.012033e+00 1.608876215 -5.000305e-01
## 630 -7.402812e-01 -1.185620e+00 -5.875342e-01 -0.455546372 -3.047034e-01
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## 632 -5.239557e-01 -1.145961e+00 -6.297269e-01 0.014546760 -2.479561e-03
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## 635 -6.697725e-03 -1.297375e-01 3.792634e-01 0.489280506 1.301241e-02
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## 639 -6.538678e-01 -6.864579e-02 5.173313e-01 0.258228552 -7.150999e-02
## 640 -1.366099e-01 -3.552422e+00 -2.973678e+00 -3.267037702 -5.601802e-02
## 641 -6.856515e-02 -9.239649e-01 -4.273742e-01 -0.817504050 -2.458841e-01
## 642 -6.436148e-01 -6.308632e-01 -1.335117e-01 -0.078246473 -4.928199e-01
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## 644 -7.217531e-01 -4.876409e-03 5.405174e-01 0.589636557 -1.537443e-02
## 645 -6.074150e-01 -1.811790e+00 -1.286386e+00 -1.224099960 2.547832e-01
## 646 1.210232e+01 1.177153e+01 1.222167e+01 11.769014239 6.298738e-02
## 647 8.643283e+00 1.205430e+01 1.337419e+01 13.222922502 5.551715e+00
## 648 -4.092974e+00 -1.791044e+00 -3.150301e-01 0.086086956 5.431079e+00
## 649 -7.747982e-01 -3.028923e+00 -2.321811e+00 -1.697806136 -1.402394e-01
## 650 -6.489617e-01 -1.209791e+00 -5.783594e-01 -0.462263808 -9.866166e-02
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## 652 -1.763133e-01 -2.471571e+00 -1.867016e+00 -1.819580873 -3.265742e-01
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## 655 -6.016774e-01 6.132213e-01 1.129038e+00 0.606931712 -5.224207e-01
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## 658 -8.097279e-01 -1.834764e-01 4.501252e-01 0.018496534 -6.140056e-01
## 659 -8.163190e-01 -1.639812e+00 -9.996247e-01 -1.458482399 -6.080253e-01
## 660 -7.513629e-01 -1.784696e-01 4.268462e-01 0.419676705 -7.351005e-02

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## 662	-5.160956e-01	-8.359614e-01	-2.772116e-01	-0.230817396	-3.917508e-02
## 663	-4.922465e-01	-1.363402e+00	-8.184713e-01	-0.779104717	-2.966346e-02
## 664	-4.445484e-01	-9.182836e-01	-4.009907e-01	0.124320641	4.893598e-01
## 665	2.002299e-01	7.036975e-01	1.180596e+00	1.239275736	7.630487e-01
## 666	1.745622e-01	2.285433e-01	7.210835e-01	0.786637692	2.517553e-01
## 667	-4.654435e-01	-4.396972e-01	8.847506e-02	-0.352263834	-2.969568e-02
## 668	-4.481856e-01	-4.234735e-01	9.746537e-02	-0.377530088	-1.420371e-02
## 669	-4.309276e-01	5.927503e-01	1.106456e+00	2.097203658	1.288263e-03
## 670	-5.131416e-01	1.115184e+00	1.670994e+00	2.244310808	-4.871893e-02
## 671	-6.019468e-01	2.181283e+00	2.785783e+00	1.914439025	-9.274576e-02
## 672	-6.866762e-01	1.350934e+00	2.010063e+00	1.605343122	-6.093199e-01
## 673	-8.791526e-01	-1.216165e+00	-4.890045e-01	-0.913037331	-4.020321e-01
## 674	-8.141966e-01	-3.754823e+00	-3.062534e+00	-2.534878227	1.324831e-01
## 675	-5.263239e-01	-1.297487e+00	-7.285054e-01	-0.209647058	-3.675822e-02
## 676	-4.958837e-01	1.131408e+00	1.679985e+00	1.219044554	-3.322695e-02
## 677	-5.501729e-01	-1.770046e+00	-1.187246e+00	-0.161359737	-5.462698e-01
## 678	-6.513288e-01	-1.550461e+00	-9.608420e-01	0.106334646	-3.283882e-01
## 679	-6.381466e-01	3.862210e+00	4.438658e+00	4.060292512	1.596511e-01
## 680	-6.973430e-01	3.791046e+00	4.450822e+00	3.607588309	-1.307922e-01
## 681	-8.536197e-01	-1.956981e+00	-1.201119e+00	-1.056645631	-1.759013e-01
## 682	-7.582234e-01	-3.566744e+00	-2.866158e+00	-2.249794915	-1.378548e-01
## 683	-6.085379e-01	-2.775053e+00	-2.163967e+00	-2.562539908	-8.676541e-02
## 684	-4.720346e-01	1.603967e+00	2.138725e+00	1.670757233	-2.371533e-02
## 685	-5.501729e-01	2.299541e-01	8.127543e-01	1.338640263	-4.626984e-02
## 686	-5.912800e-01	-2.758829e+00	-2.154976e+00	-1.587806162	-7.127344e-02
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## 688	-4.786258e-01	2.647632e+00	3.188975e+00	2.693778300	-1.773498e-02
## 689	-6.044622e-01	3.828500e+00	4.445524e+00	4.958235972	-5.931273e-02
## 690	-8.125127e-01	-4.681975e-01	2.666111e-01	0.369800794	-1.508977e-01
## 691	-7.886636e-01	-1.995638e+00	-1.274649e+00	0.321513473	-6.413861e-01
## 692	5.116772e+00	5.680282e+00	-5.984948e-01	-1.433813211	-4.294848e-01
## 693	3.077163e+00	2.693426e+00	-3.949565e+00	-6.336864984	2.547635e+00
## 694	-5.600694e+00	-5.235623e+00	-3.511249e+00	-3.001099938	1.698195e+00
## 695	-3.817499e+00	-2.781720e+00	4.558311e-01	0.539227254	-2.728686e+00
## 696	-6.664511e-01	5.685796e-01	1.468269e+00	1.481028436	-2.963302e+00
## 697	5.166609e-02	1.064414e+00	1.396884e-01	0.597668405	-1.251044e+00
## 698	1.929800e-01	2.317926e-01	-1.299634e-01	-0.135686807	-3.271749e-01
## 699	4.154001e+00	4.640629e+00	-3.958713e-01	-0.408493943	-7.778554e-02
## 700	4.320278e+00	4.860646e+00	-1.870961e+00	-2.368486132	1.898148e+00
## 701	-3.069462e-02	-2.461886e-01	-2.914977e+00	-3.388836805	2.345477e+00
## 702	5.756322e+00	6.154789e+00	-1.988378e+00	-1.962455597	1.286825e-01
## 703	5.229266e+00	6.074606e+00	5.954705e+00	6.475981656	2.311348e+00
## 704	-9.613850e-02	-3.869775e-02	6.850673e+00	7.338923512	2.046933e+00
## 705	1.072397e+00	1.263591e+00	-1.884648e-01	-0.249378967	-4.060166e-01
## 706	-3.345420e-02	6.847273e-01	-9.521332e-01	-1.005780610	3.402908e-01
## 707	4.524221e-01	8.596089e-01	-9.225480e-01	-0.937470468	-4.411405e-02
## 708	2.560678e+01	2.806865e+01	-1.106628e+00	-1.608707047	-1.456430e-03
## 709	2.944849e+01	3.227575e+01	-1.267556e+01	-12.630554857	1.219407e+01
## 710	-1.211081e+01	-1.204575e+01	-2.057205e+01	-19.635056181	1.649913e+01
## 711	-2.289640e+01	-2.043959e+01	-6.164728e+00	-5.369450101	-3.947339e+00
## 712	-4.928871e+00	-3.888507e-01	5.689093e+00	6.271190895	-1.467106e+01
## 713	2.430339e+00	3.872631e+00	3.870066e+00	4.072593673	-7.601206e+00
## 714	2.691379e+00	2.255353e+00	3.229282e-01	0.328139845	-1.275601e+00

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## 715 -6.995345e-01 -3.774562e-01 -1.315822e+00 -1.354544141 8.081501e-01
## 716 -3.431421e+00 -1.944710e+00 -7.486799e-01 -1.250281621 -2.721746e-01
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## 720 -2.219597e+00 -1.736167e+00 -2.228127e-01 0.283221390 -7.223623e-01
## 721 -1.861508e-01 1.919191e-01 5.818735e-01 1.101294891 -1.497761e+00
## 722 -8.113044e-01 -1.214411e-01 9.554555e-02 0.111062101 -6.455286e-01
## 723 -3.113044e-01 -1.121441e+00 9.554555e-02 -0.388937899 -6.455286e-01
## 724 4.795029e-01 -5.700064e-01 3.068395e-02 -0.528581793 -4.291739e-01
## 725 -1.213522e+00 -9.751809e-01 -3.500937e-01 -0.477438428 5.016909e-02
## 726 -2.298961e+00 -1.478244e+00 4.541567e-02 -0.063509942 -6.108231e-01
## 727 -1.060785e+00 -1.603078e-01 6.670363e-01 0.570867808 -1.322203e+00
## 728 -1.359189e+00 -4.615634e-01 4.453950e-01 0.344128170 -8.892712e-01
## 729 8.118780e+00 8.568472e+00 4.874267e-01 0.393340855 -8.970010e-01
## 730 1.882419e+00 2.302533e+00 -3.674182e+00 -3.269335429 3.673201e+00
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## 733 -1.470147e+00 -3.793951e-01 1.135384e+00 0.611633106 -2.205419e+00
## 734 -1.182023e+00 -1.204755e+00 8.431394e-01 0.754911469 -1.358991e+00
## 735 -1.090722e+00 -1.275118e+00 7.215144e-01 0.600983038 -9.532576e-01
## 736 7.159440e-01 -7.531747e-02 6.396860e-01 0.499412480 -7.465258e-01
## 737 -1.138389e+00 -5.889350e-01 -1.558027e-01 0.177845882 1.929144e-01
## 738 -3.108761e+00 -1.869150e+00 8.866848e-02 0.495016729 -4.486419e-01
## 739 -6.334987e-01 -2.061104e-01 1.007003e+00 0.979825742 -1.623905e+00
## 740 1.313753e+00 1.631307e+00 4.796575e-01 0.427921094 -7.425820e-01
## 741 -9.912958e-01 -6.743302e-01 -6.397236e-01 -0.690051162 4.657156e-01
## 742 -2.861370e+00 -2.407229e+00 -2.044176e-01 -0.223764803 -3.942784e-01
## 743 -4.791437e-01 -4.970740e-01 8.229237e-01 0.808589164 -1.581247e+00
## 744 -1.087039e+00 -2.942104e-01 3.455861e-01 0.293090120 -7.135233e-01
## 745 -1.031892e+00 -1.159657e+00 2.955780e-01 0.256684516 -6.999244e-01
## 746 -1.087039e+00 -1.794210e+00 3.455861e-01 0.293090120 -7.135233e-01
## 747 -1.197333e+00 -1.563318e+00 4.456023e-01 0.365901327 -7.407212e-01
## 748 7.747520e+00 8.802128e+00 4.956104e-01 0.402306931 -7.543201e-01
## 749 -2.740361e+00 -1.529058e+00 -3.634178e+00 -3.695204399 3.622749e+00
## 750 -9.081688e+00 -8.717202e+00 -1.137262e+00 -1.060850240 -5.576654e-01
## 751 1.384162e+00 2.144020e+00 3.034558e+00 3.085873775 -4.942465e+00
## 752 -1.241394e+00 -1.003247e+00 5.296656e-01 0.464326698 -7.561809e-01
## 753 -7.413944e-01 -1.003247e+00 5.296656e-01 0.464326698 -7.561809e-01
## 754 -1.357551e+00 -6.989281e-01 3.557975e-01 0.277137851 -5.281203e-01
## 755 -1.664217e+00 -8.987286e-01 4.376258e-01 0.378708409 -7.348521e-01
## 756 -5.480602e-01 -7.030473e-01 6.114940e-01 0.565897256 -9.629127e-01
## 757 -3.024041e-01 -6.437425e-02 3.057894e-01 0.240732247 -5.145214e-01
## 758 -2.862362e-01 4.790165e-01 -1.012661e-02 -0.068480494 -2.515331e-01
## 759 1.423266e+00 2.322607e+00 -2.442143e-01 -0.276122676 -1.952765e-01
## 760 -1.550261e+00 -1.017185e+00 -1.149931e+00 -1.154548212 5.859586e-01
## 761 -1.798316e+00 -1.627830e+00 -2.668722e-01 -0.241072951 -7.573545e-01
## 762 3.691379e+00 3.255353e+00 3.229282e-01 0.328139845 -1.275601e+00
## 763 1.784461e-01 2.888821e-04 -1.263575e+00 -1.801733044 1.291469e+00
## 764 -4.515971e+00 -3.583372e+00 -7.302457e-01 -1.272874827 -2.674155e-01
## 765 -2.758110e+00 -1.219396e+00 8.746871e-01 0.814854173 -2.635373e+00
## 766 -8.872553e-01 9.131116e-02 5.632367e-01 0.979800378 -1.795486e+00
## 767 -4.002964e-01 -4.503464e-01 -2.233556e-02 0.417681745 -9.142747e-01
## 768 1.407098e+00 7.792160e-01 5.717017e-01 0.033090065 -4.582649e-01

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## 769	8.568205e+00	1.127923e+01	-2.155686e-01	-0.814668151	4.948856e-01
## 770	-2.247056e+00	4.667865e-01	-3.683693e+00	-4.219277714	4.286799e+00
## 771	-6.342450e+00	-6.818960e+00	-1.831595e+00	-1.737662844	-3.378087e-01
## 772	2.713921e+00	3.394090e+00	5.947447e-01	1.123900178	-3.796767e+00
## 773	-3.953192e-01	3.505995e-01	-9.720723e-01	-1.000645146	8.643461e-03
## 774	-1.189448e-01	1.818908e-01	-7.083994e-01	-0.724692822	-4.320180e-01
## 775	-1.740918e-01	5.473369e-01	-6.583913e-01	-0.688287218	-4.456169e-01
## 776	-6.740918e-01	4.733693e-02	-6.583913e-01	-0.688287218	-4.456169e-01
## 777	-6.130821e-01	1.084644e-01	-4.345150e-01	-0.464692767	-6.872764e-01
## 778	-1.190260e+00	3.946192e-03	-3.424753e-01	-0.379074477	-7.086052e-01
## 779	-1.151280e+00	9.510932e-02	-7.656734e-02	-0.106267341	-9.579946e-01
## 780	1.249512e+00	2.020627e+00	5.750412e-02	0.028563634	-9.870533e-01
## 781	7.901082e-01	1.505953e+00	-8.777975e-01	-0.918172043	1.785867e-01
## 782	1.521641e+00	1.819508e+00	-1.153917e+00	-1.175026911	2.425731e-01
## 783	1.137016e+00	1.937381e+00	-1.103904e+00	-1.119070627	5.346201e-01
## 784	-1.572260e+00	-2.690532e+00	-6.569194e-01	-0.653256408	3.551653e-01
## 785	-8.532495e-01	-3.262654e+00	2.927867e-01	0.746463696	-1.314223e-01
## 786	-2.965533e-01	-7.367051e-01	1.491029e+00	1.884069238	4.853932e-01
## 787	-5.269504e-01	-6.017089e-01	-2.854177e-01	-0.384873055	-5.899188e-01
## 788	-6.453326e-01	-7.187740e-01	-1.731626e+00	-1.830211228	-6.030362e-01
## 789	-4.675355e-01	4.403276e-02	1.771466e+00	1.693040911	7.097367e-01
## 790	4.800158e-02	-4.185745e-01	2.850202e+00	2.771359330	1.690232e+00
## 791	-4.857389e-02	3.471156e-01	1.602818e+01	15.921563592	1.564175e+01
## 792	1.221297e+00	2.176518e+00	9.447426e+00	9.341636138	1.109377e+01
## 793	-1.552706e-01	-4.889527e-01	-5.996500e+00	-6.064546399	-3.293461e+00
## 794	-1.768359e+00	-1.079503e+00	-1.125502e+00	-1.177238018	-1.374893e+00
## 795	-2.172584e-01	-4.973965e-01	-8.277398e-01	-0.875645470	-1.437959e+00
## 796	-3.429167e-01	-1.253309e+00	8.438460e-01	0.772387741	1.208092e+00
## 797	-8.150235e-01	-3.567715e-01	1.075699e+00	0.983175110	1.460563e+00
## 798	-1.060680e+00	-4.954445e-01	-1.185967e-01	-0.191659880	1.217188e-02
## 799	-5.610866e-01	-4.142334e-01	-8.901652e-01	-0.448883842	-2.272244e-01
## 800	-1.159121e-01	-4.378142e-01	-9.358599e-01	-0.952723321	-7.309415e-01
## 801	-3.486325e-01	-2.479657e-01	-5.516457e-02	-0.584324978	-5.142167e-01
## 802	5.304383e-01	1.102612e+00	4.821989e+00	4.752432606	4.721606e+00
## 803	5.554770e-01	7.002368e-01	3.555271e+00	3.495528967	3.784111e+00
## 804	-2.687682e-01	-6.267605e-01	-7.761878e-01	-0.837389137	-4.479943e-01
## 805	-1.180522e-01	-5.138213e-02	-8.409290e-01	-0.913403602	-7.426051e-01
## 806	-3.548166e-01	-2.855123e-01	-1.233346e+00	-1.304079949	-1.768840e+00
## 807	-1.170577e+00	-1.126756e+00	-1.534495e+00	-1.610063371	-1.818185e+00
## 808	-1.227950e+00	-1.182693e+00	-1.756828e+00	-1.831807093	-1.572962e+00
## 809	-6.471350e-01	-5.729851e-01	-8.473235e-01	-0.915574654	-1.048070e+00
## 810	-1.471350e-01	-7.298514e-02	1.152677e+00	1.084425346	9.519299e-01
## 811	2.861975e-02	-3.999824e-01	2.321217e+00	2.251507242	1.219824e+00
## 812	-5.679557e-01	-6.342924e-01	9.991976e-01	0.901711504	-3.286600e-01
## 813	-2.851390e-01	-4.070511e-01	4.958629e+00	4.848428267	4.368560e+00
## 814	-8.134287e-01	-4.413857e-01	1.242691e+00	1.128855596	1.919248e+00
## 815	-1.039280e+00	-5.314782e-01	-3.765976e+00	-3.853341406	-2.762591e+00
## 816	-2.960325e-01	-1.457686e-01	-2.818103e-01	-0.338634824	2.483224e-01
## 817	-7.170364e-01	-5.386555e-01	6.269219e-01	0.576672251	7.714330e-01
## 818	-5.968356e-01	-4.189955e-01	1.073902e+00	1.022935789	2.863322e-01
## 819	-2.530092e-01	3.693732e-01	7.572100e-01	0.693247003	2.418928e-01
## 820	-3.360493e-01	-1.617186e-01	7.536545e-02	0.018865238	-2.417753e-02
## 821	-3.952404e-01	-1.220251e+00	-1.477388e-01	-0.203803849	-7.807363e-01
## 822	-7.029127e-01	-1.213537e+00	-9.026633e-01	-0.991637890	-1.844162e+00

## 823	-1.514629e+00	-1.130802e+00	-2.430700e+00	-2.538546622	-2.150548e+00
## 824	-3.588625e-01	1.620409e-01	1.114424e+00	1.033918203	1.654495e+00
## 825	1.484136e-01	8.008887e-01	1.996629e+00	1.940546818	1.995327e+00
## 826	-6.206847e-01	-3.915547e-01	-1.384838e+00	-1.428776890	-1.723179e+00
## 827	-4.346266e-01	-7.302031e-01	-1.685215e+00	-1.733834947	-1.770743e+00
## 828	-1.673469e-01	-4.035455e-02	-3.045198e-01	-0.365436604	-5.540183e-01
## 829	-1.691655e-01	-4.294946e-02	1.694708e+00	1.633638032	4.442000e-01
## 830	-7.105940e-01	-6.427055e-01	2.322680e+00	2.247436690	1.409315e+00
## 831	-5.528256e-01	-5.156885e-01	3.306365e+00	3.222805962	2.412439e+00
## 832	-3.950572e-01	-8.886714e-01	1.790050e+00	1.698175233	1.915563e+00
## 833	6.879829e-01	1.424203e-01	5.471895e+00	5.372556999	5.181634e+00
## 834	4.251543e-01	7.953393e-01	2.135880e+00	2.020457307	2.947265e+00
## 835	7.728378e-02	1.082992e+00	2.179460e+00	2.091071403	3.248744e+00
## 836	1.404761e+00	1.624858e+00	1.112001e+01	11.071543432	1.007872e+01
## 837	1.874429e+00	1.000720e+00	1.006952e+01	9.995800518	1.008453e+01
## 838	1.036648e+00	9.705043e-01	2.597889e+00	2.487468441	3.570012e+00
## 839	1.421156e-01	6.093571e-01	-1.278213e+00	-1.378577177	-1.459347e+00
## 840	-1.493993e-01	-1.215302e-01	1.863463e+00	1.775937381	1.197660e+00
## 841	-8.467776e-01	-1.345708e+00	-4.914774e-01	-0.584707867	-3.385685e-01
## 842	-1.998683e+00	-2.046152e+00	-4.201278e+00	-4.300077084	-4.096951e+00
## 843	-8.285692e-01	-3.409817e-01	1.148040e+00	1.059322478	1.635593e+00
## 844	1.180525e+00	1.300461e+00	5.531018e+00	5.466876458	5.978207e+00
## 845	7.275946e-01	3.680497e-01	3.222268e+00	3.160760134	3.048442e+00
## 846	9.163301e-02	-8.762122e-01	2.362772e+00	2.280933298	2.009951e+00
## 847	-1.568482e-01	1.890344e-01	-1.690480e-01	-0.284231657	-7.969162e-01
## 848	-1.035844e+00	3.652800e-01	-1.966414e+00	-2.071958856	-2.345780e+00
## 849	-1.164540e+00	-1.021126e+00	-1.231188e+00	-1.293595736	-1.085995e+00
## 850	-5.837252e-01	-1.411418e+00	6.783166e-01	0.622636704	-6.110292e-02
## 851	-7.138242e-01	-1.729106e+00	1.592705e+00	1.502809922	6.451474e-01
## 852	-7.847320e-01	-1.488262e+00	7.301974e-01	0.605652228	1.079564e-01
## 853	-8.398790e-01	-1.122816e+00	-2.197944e-01	-0.357942168	-9.056425e-01
## 854	-1.458261e+00	-1.239881e+00	-6.660030e-01	-0.803280342	-1.418760e+00
## 855	-9.604867e-01	-1.161265e+00	7.061657e+00	6.938570333	6.840062e+00
## 856	-1.249362e+01	-1.267616e+01	-6.183047e+00	-6.306086292	-6.788447e+00
## 857	-1.273120e+01	-1.342574e+01	-1.295696e+01	-13.084913820	-1.348422e+01
## 858	-9.099714e-01	-1.685266e+00	-1.026655e+00	-1.166446680	-1.040191e+00
## 859	-1.180259e+00	-5.027745e-01	-2.682664e+00	-2.827154070	-3.311691e+00
## 860	-1.482485e+00	-1.140800e+00	-1.843638e+00	-1.957723520	-2.578623e+00
## 861	-1.543901e+00	-1.620716e+00	-2.339082e+00	-2.438541932	-2.576360e+00
## 862	-1.022278e+00	-1.069540e+00	-6.526826e-01	-0.744978579	-1.308026e+00
## 863	-9.630865e-01	-1.011008e+00	1.070422e+00	0.977690507	-5.146736e-02
## 864	-8.645093e-01	-4.425234e-01	2.831002e+00	2.730390692	1.695098e+00
## 865	-5.924028e-01	-6.224200e-01	1.487783e+00	1.392023447	9.683803e-01
## 866	-3.321167e-02	-1.063887e+00	1.710888e+00	1.614692533	1.724939e+00
## 867	-7.137064e-03	-1.699444e-01	1.441968e+00	1.324554538	9.756287e-01
## 868	-5.681467e-01	-7.310719e-01	-2.281908e+00	-2.399039913	-2.782712e+00
## 869	-9.824845e-01	-1.640800e+00	-3.436378e-01	-0.457723520	-1.078623e+00
## 870	-1.537632e+00	-7.753535e-01	-1.293630e+00	-1.421317916	-1.592222e+00
## 871	-1.346523e+00	-8.965378e-01	-2.984142e+00	-3.077896684	-3.040132e+00
## 872	-8.881346e-01	-1.327873e+00	-1.793958e+00	-1.866077108	-1.771317e+00
## 873	-8.642855e-01	-8.553143e-01	-8.352182e-01	-0.914364429	-1.261805e+00
## 874	-8.050944e-01	-2.967817e-01	2.387886e+00	2.308304658	9.947538e-01
## 875	-6.119840e-01	-8.379138e-02	1.635935e+00	1.554630337	7.449252e-01
## 876	-5.174508e-01	-9.392855e-01	-8.765968e-01	-0.951744168	-1.251469e+00



## 877	-2.501712e-01	-7.494370e-01	2.004098e+00	1.916654175	1.465256e+00
## 878	-1.295634e-01	2.890118e-01	2.722647e+00	2.620141675	2.719551e+00
## 879	-2.604745e-01	-2.377860e-01	3.973017e+00	3.888794128	3.780714e+00
## 880	3.548106e-02	-4.451233e-01	5.088538e+00	5.002139562	4.563508e+00
## 881	-3.618976e-01	4.733988e-02	1.122231e+00	1.013914437	5.530331e-01
## 882	-1.798836e-01	-2.152871e-01	-1.951259e+00	-2.050218311	-2.237490e+00
## 883	-2.126036e-01	-7.420800e-01	-4.591971e-01	-0.554240091	-5.465189e-01
## 884	-8.089553e-01	-8.891807e-01	1.552563e+00	1.451209050	9.480935e-01
## 885	-6.313820e-01	2.864169e-01	3.221875e+00	3.119216310	3.217770e+00
## 886	4.130547e-01	1.513833e+00	4.369217e+00	4.297726698	4.307430e+00
## 887	6.258295e+00	3.014476e+00	1.466085e+01	14.614666473	1.435908e+01
## 888	8.422549e+00	5.578205e+00	1.585471e+02	158.392454203	1.580415e+02
## 889	1.714495e+01	1.617271e+01	7.435314e+01	73.995735368	8.556740e+01
## 890	-1.828772e+00	-2.696450e+00	-9.483468e+01	-94.671007291	-8.226145e+01
## 891	-1.604373e+01	-1.554775e+01	-2.496936e+01	-25.106226220	-2.599215e+01
## 892	-6.982654e-01	-1.106377e+00	-3.762836e+00	-4.378626917	-5.218031e+00
## 893	-1.430911e+00	-1.889705e+00	2.697648e+00	2.538801812	2.185653e+00
## 894	-7.600035e-01	-1.197266e+00	9.337422e+00	9.180799754	7.774351e+00
## 895	-2.470938e+00	-1.474972e+00	-1.910374e+00	-2.087109009	-1.666931e+00
## 896	-3.572555e+00	-1.802418e+00	-7.486432e+00	-7.612406443	-7.133467e+00
## 897	2.029466e+00	3.158685e+00	2.605042e+01	25.991726729	2.437781e+01
## 898	4.557279e+00	3.727443e+00	1.176004e+01	11.688476374	1.387191e+01
## 899	-3.449247e-01	-7.818807e-01	-1.660323e+01	-16.690056004	-1.386142e+01
## 900	-2.817591e+00	-1.716085e+00	-1.862862e+00	-1.923211253	-2.341921e+00
## 901	-1.718009e+00	-1.482583e+00	-1.644647e+00	-1.684033626	-1.572366e+00
## 902	-7.125529e-01	-9.747983e-01	-6.423307e-01	-0.681257532	-5.670211e-01
## 903	-2.658813e-01	-6.067573e-01	1.408449e+00	1.356073436	1.421162e+00
## 904	-1.434550e-01	-6.571355e-02	1.627770e+00	1.560486300	1.677239e+00
## 905	-2.507278e-02	5.513515e-01	1.073979e+00	1.005824473	1.190356e+00
## 906	3.007421e-02	6.859054e-01	1.023971e+00	0.969418869	1.203955e+00
## 907	4.085221e+00	4.820459e+00	7.473963e+00	7.933013266	8.717554e+00
## 908	4.680892e+00	4.541984e+00	1.228798e+01	12.303768757	1.304354e+01
## 909	-1.178511e+00	-9.109387e-01	4.009066e+00	3.504800484	3.594391e+00
## 910	-1.389148e+00	-1.203080e+00	-3.204280e+00	-3.261760173	-2.450540e+00
## 911	4.096515e-01	-8.924956e-01	-2.377672e+00	-2.429162390	-1.520336e+00
## 912	-2.095134e-01	-2.158369e-01	6.731466e-01	0.591339716	1.529495e-01
## 913	-3.477006e-01	-3.814825e-01	1.041310e+00	0.953363554	8.732802e-01
## 914	-2.885095e-01	-8.229500e-01	2.644144e-01	0.676032641	1.298390e-01
## 915	-1.420106e+00	-1.032260e+00	-9.176721e-01	-0.984964588	-1.155811e+00
## 916	-1.420513e+00	-1.451049e+00	-1.689241e+00	-2.242188549	-1.895207e+00
## 917	-1.018000e+00	-1.046700e+00	-1.624915e+00	-1.710942248	-1.889269e+00
## 918	-1.134563e+00	-6.611707e-01	-5.703514e-01	-0.655355057	-9.006047e-01
## 919	-1.251841e+01	-1.196549e+01	-2.896483e+00	-2.968166209	-3.128665e+00
## 920	-1.179498e+01	-1.115654e+01	-8.688983e+00	-8.751650417	-7.697689e+00
## 921	-5.618424e-02	2.085330e-01	-5.587856e+00	-5.626945745	-5.359877e+00
## 922	-6.969831e-01	-4.469760e-01	-1.092074e-02	-0.048445651	2.519152e-03
## 923	-6.359734e-01	1.141515e-01	-2.870445e-01	-0.324851200	7.608596e-01
## 924	-3.026335e-01	5.825915e-01	-5.726078e-01	-0.584379115	-1.644211e-01
## 925	1.951410e-01	6.612078e-01	1.550518e-01	0.157471559	9.440082e-02
## 926	5.695378e-02	4.955621e-01	5.232154e-01	0.519495397	8.147315e-01
## 927	1.161449e-01	5.540947e-01	7.463197e-01	0.742164484	1.071290e+00
## 928	1.753360e-01	6.126272e-01	9.694239e-01	0.964833570	1.327849e+00
## 929	2.345271e-01	6.711597e-01	1.192528e+00	1.187502657	2.084408e+00
## 930	4.319054e-01	8.953379e-01	-4.525311e-01	-0.451852094	6.206357e-01

## 931	3.925192e-01	8.853860e-01	-4.900075e-01	-0.481883193	1.306288e-01
## 932	2.741370e-01	7.683209e-01	1.063784e+00	1.072778634	1.117511e+00
## 933	2.543321e-01	7.197403e-01	1.378156e+00	1.380140645	1.350960e+00
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## 935	2.147222e-01	6.225792e-01	5.069003e-01	0.494864668	3.178559e-01
## 936	1.734388e-02	-1.015990e-01	-1.848040e+00	-1.865780580	-1.218372e+00
## 937	-1.955715e-01	-3.631699e-01	-2.281717e+00	-2.304744248	-7.350954e-01
## 938	4.270786e-01	7.650830e-01	4.771383e+00	4.754913495	5.064079e+00
## 939	1.017171e+00	1.347813e+00	6.501654e+00	6.480678997	6.127884e+00
## 940	2.716982e-01	1.040720e+00	-2.254853e+00	-2.292176911	-1.124208e+00
## 941	-1.250602e-01	2.581891e-01	-3.903295e+00	-3.916371855	-2.894745e+00
## 942	-1.777442e-02	-1.003631e-01	-2.786249e-01	-0.281492109	-4.223225e-01
## 943	-1.519175e-01	1.579699e-01	3.626510e-01	0.339606420	4.096805e-02
## 944	-1.717224e-01	1.093893e-01	1.770231e-01	0.146968431	2.744162e-01
## 945	-1.125313e-01	1.679219e-01	-5.998727e-01	-0.630362482	3.097495e-02
## 946	-3.353525e-02	2.750350e-01	-1.691140e+00	-1.715055407	-9.459145e-01
## 947	-7.292141e-02	2.650830e-01	-1.728617e+00	-1.745086505	-1.435921e+00
## 948	-1.913036e-01	1.480179e-01	-1.174825e+00	-1.190424679	-9.490388e-01
## 949	3.086964e-01	6.480179e-01	4.325175e+00	4.309575321	3.550961e+00
## 950	1.224145e-01	3.994571e-01	7.917724e-01	0.759388500	1.055428e+00
## 951	-3.775855e-01	-1.005429e-01	-4.208228e+00	-4.240611500	-3.444572e+00
## 952	-2.702997e-01	4.090482e-02	-1.083558e+00	-1.105731754	-1.472149e+00
## 953	-4.084869e-01	-1.247408e-01	-1.715394e+00	-1.743707916	-1.251819e+00
## 954	-3.294908e-01	-1.762772e-02	-1.306662e+00	-1.328400841	-1.728708e+00
## 955	-4.676780e-01	-1.832734e-01	-9.384982e-01	-0.966377003	-2.008377e+00
## 956	-6.848612e-01	-4.560321e-01	-1.979067e+00	-2.019660240	-1.811157e+00
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## 958	-4.676780e-01	-1.832734e-01	-4.384982e-01	-0.466377003	-5.083774e-01
## 959	-3.492957e-01	4.337917e-01	1.507710e+00	1.478961171	4.740044e-03
## 960	-4.127547e-01	-1.359287e-01	-8.222858e-01	-0.858027485	-5.378752e-01
## 961	-3.337587e-01	-5.288156e-01	-1.913554e+00	-1.942720410	-5.147647e-01
## 962	-1.519175e-01	1.579699e-01	3.626510e-01	0.339606420	4.096805e-02
## 963	-1.717224e-01	1.093893e-01	1.770231e-01	0.146968431	2.744162e-01
## 964	-1.125313e-01	1.679219e-01	-9.987267e-02	-0.130362482	3.097495e-02
## 965	-1.125313e-01	1.679219e-01	-5.998727e-01	-0.630362482	-4.690251e-01
## 966	-6.717224e-01	1.093893e-01	-3.229769e-01	-0.353031569	-2.255838e-01
## 967	-5.555657e-01	3.050706e-01	-1.491088e-01	-0.165842722	-4.536444e-01
## 968	-7.759624e-02	3.351063e-01	-1.070771e-01	-0.116630036	3.862575e-02
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## 970	1.197820e-01	5.592845e-01	2.478636e-01	0.244015213	5.748538e-01
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## 972	3.062471e-01	1.394250e-01	-7.809453e-01	-0.803818883	-7.333137e-01
## 973	-3.691007e-01	-1.147889e-01	-1.177918e+00	-1.213676818	-7.618118e-01
## 974	-2.901046e-01	-7.675748e-03	-7.691855e-01	-0.798369742	-7.387012e-01
## 975	-2.901046e-01	-7.675748e-03	-7.691855e-01	-0.798369742	-1.238701e+00
## 976	-4.282918e-01	-1.733214e-01	-9.010219e-01	-0.936345904	-1.518371e+00
## 977	-5.664790e-01	-3.389670e-01	-1.032858e+00	-1.074322066	-1.298040e+00
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## 979	1.933521e+00	1.661033e+00	9.671417e-01	0.925677934	1.201960e+00
## 980	1.448277e+00	1.620618e+00	1.922022e+00	1.872763790	2.202563e+00
## 981	-8.024277e-01	-1.070513e-01	4.969792e-01	0.452376667	-1.177716e-02
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## 983	-2.850720e-01	-6.706365e-02	7.648725e-02	0.031620451	-2.950014e-02
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## 992 2.718935e-01 7.008513e-02 5.272511e-01 0.496140212 4.858805e-01
## 993 -2.850720e-01 -6.706365e-02 5.764873e-01 0.531620451 -2.950014e-02
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## 995 -8.071025e-01 -3.702797e-02 -1.381481e+00 -1.419166864 -1.037230e+00
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## 997 -1.711409e-01 2.072339e-01 4.780150e-01 0.460659972 1.261224e-03
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## 1001 2.520886e-01 2.150456e-02 2.341623e+00 2.303502223 2.219329e+00
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## 1008 7.634251e-01 1.157037e+00 6.797933e+00 6.779415154 6.425562e+00
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## 1036 9.304118e-01 1.639537e+00 9.454060e-01 1.732693051 1.817529e+00
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## 1038 1.715776e+00 2.399135e+00 2.081475e+00 0.897314056 1.765809e+00

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## 1039	9.875380e-01	1.611325e+00	1.843229e+00	1.043712241	1.249383e+00
## 1040	-6.969479e-01	-1.315806e-01	-1.801308e-01	0.938971132	9.758049e-01
## 1041	4.854765e-02	6.724529e-01	6.710538e-02	0.767306692	1.507723e+00
## 1042	1.250292e+00	1.931583e+00	2.599456e+00	1.346781548	1.796793e+00
## 1043	1.004067e+00	1.597787e+00	2.176354e+00	1.801467109	1.515596e+00
## 1044	1.302324e+00	1.838657e+00	1.644004e+00	1.721992254	1.226527e+00
## 1045	1.101308e+00	1.609289e+00	1.787519e+00	0.859496276	1.186735e+00
## 1046	-6.000236e-03	4.709015e-01	6.721192e-01	0.669136877	9.344865e-01
## 1047	6.321869e-01	1.136547e+00	8.039556e-01	0.807113039	7.141558e-01
## 1048	5.711772e-01	1.075420e+00	1.080079e+00	0.583518588	4.558153e-01
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## 1050	-1.133087e-01	3.325136e-01	5.567194e-01	0.478777478	1.822376e-01
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## 1052	-1.928823e+00	-1.424580e+00	-1.419921e+00	0.583518588	4.558153e-01
## 1053	5.621684e-01	1.183487e+00	1.574552e+00	1.240189709	1.519651e+00
## 1054	1.500430e+00	2.092598e+00	2.174810e+00	1.299616380	1.512033e+00
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## 1058	1.930412e+00	2.639537e+00	2.945406e+00	1.732693051	2.317529e+00
## 1059	2.623178e+00	3.244614e+00	3.298428e+00	1.463784161	1.777992e+00
## 1060	6.321869e-01	1.136547e+00	1.803956e+00	0.807113039	7.141558e-01
## 1061	-5.229898e-02	3.936410e-01	7.805957e-01	0.702371929	4.405781e-01
## 1062	4.477010e-01	8.936410e-01	7.805957e-01	0.702371929	4.405781e-01
## 1063	-1.133087e-01	3.325136e-01	5.567194e-01	0.478777478	1.822376e-01
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## 1065	-1.750468e-01	2.416242e-01	6.569776e-01	1.038204149	6.746191e-01
## 1066	4.458824e-01	8.910461e-01	7.798237e-01	1.201446565	9.387964e-01
## 1067	5.058020e-01	9.793406e-01	1.178794e+00	0.641094529	4.446332e-01
## 1068	-1.169458e-01	3.273238e-01	5.551755e-01	0.976926749	1.786742e-01
## 1069	-1.342038e-01	3.111000e-01	1.046185e+00	1.002193003	6.631822e-01
## 1070	-7.501265e-02	3.696325e-01	7.692895e-01	0.724862089	9.197409e-01
## 1071	6.317452e-02	5.352782e-01	9.011259e-01	1.362838251	6.994102e-01
## 1072	4.591657e-02	5.190544e-01	1.392136e+00	1.388104505	6.839182e-01
## 1073	4.669205e-01	9.119413e-01	1.483403e+00	0.972797430	6.608077e-01
## 1074	3.441727e-01	7.599245e-01	1.359785e+00	1.308629650	8.948486e-01
## 1075	-1.576459e-01	2.573296e-01	8.590133e-01	1.307704285	8.930669e-01
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## 1078	-4.757070e-01	-3.212107e-02	7.057357e-01	1.194541152	9.155846e-01
## 1079	-3.529592e-01	1.198957e-01	3.293538e-01	0.858708933	1.181544e+00
## 1080	3.487847e-01	8.790256e-01	1.361704e+00	0.938183788	1.470613e+00
## 1081	8.660427e-01	1.395249e+00	2.370694e+00	1.412917534	1.486105e+00
## 1082	1.815567e-01	6.523432e-01	1.347334e+00	1.308176425	1.212528e+00
## 1083	1.815567e-01	6.523432e-01	8.473344e-01	1.308176425	1.212528e+00
## 1084	7.432949e-01	1.243233e+00	2.247076e+00	1.248749754	1.220146e+00
## 1085	5.588089e-01	1.000326e+00	2.723716e+00	1.144008644	9.465686e-01
## 1086	-1.874151e-01	1.665310e-01	1.800615e+00	1.098694205	6.653724e-01
## 1087	1.250847e+00	1.075642e+00	4.008726e-01	1.658120876	1.157754e+00
## 1088	1.257076e+00	1.088906e+00	-2.984181e-01	0.568132201	1.485479e-01
## 1089	-3.576236e-01	-4.725155e-02	-1.205549e-01	-0.685098891	-1.124835e+00
## 1090	-4.785528e-01	-1.966734e-01	-2.434011e-01	-0.348341307	-8.890126e-01
## 1091	-4.785528e-01	-1.966734e-01	-2.434011e-01	-0.348341307	-8.890126e-01
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## 1093 2.144717e-02 -1.966734e-01 -2.434011e-01 -0.348341307 -8.890126e-01
## 1094 9.052905e-01 -3.923547e-01 -4.172692e-01 -0.035530154 -6.609520e-01
## 1095 -3.222503e-01 -3.299768e-01 -8.160274e-01 0.566145719 -2.125929e-01
## 1096 -1.020472e+00 5.716137e-02 -1.713653e-01 -1.167721484 -1.678401e+00
## 1097 -5.318360e-01 -8.529147e-01 -5.700932e-01 -1.620753986 -2.164659e+00
## 1098 -1.328841e+00 -7.863123e-01 -1.265777e+00 -0.410833214 -1.206613e+00
## 1099 -1.530017e+00 1.496802e-01 -5.693213e-01 -1.119828621 -1.662877e+00
## 1100 -8.634863e-01 -4.738251e-01 -3.944393e-01 -0.945098946 -1.369577e+00
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## 1102 -4.785528e-01 -1.966734e-01 -2.434011e-01 -0.848341307 -1.389013e+00
## 1103 -5.994821e-01 1.539047e-01 -3.662472e-01 -0.511583723 -1.153190e+00
## 1104 -1.044335e+00 2.884586e-01 -4.162553e-01 -0.047989327 -6.395910e-01
## 1105 -2.521022e-01 2.681156e-01 -1.695491e-01 -0.733963667 -1.089875e+00
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## 1107 -6.101173e-01 -2.264094e-01 -5.891095e-01 -0.247637346 -8.901693e-01
## 1108 -9.891881e-01 -7.698756e-02 -4.662634e-01 -0.584394930 -1.125992e+00
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## 1110 -3.778039e-01 1.649532e-01 -2.413733e-01 -0.373259651 -8.462905e-01
## 1111 -3.778039e-01 1.649532e-01 -2.413733e-01 -0.373259651 -8.462905e-01
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## 1119 -9.939606e-01 -5.307281e-01 -4.152414e-01 -0.560448499 -1.118230e+00
## 1120 -1.432951e+00 -4.696007e-01 -6.913652e-01 -0.336854047 -8.598895e-01
## 1121 -1.194046e+00 3.780974e-01 -3.938789e-01 -0.985497419 -1.321991e+00
## 1122 3.581466e-01 5.615057e-01 1.079069e-01 -0.997031227 -1.298848e+00
## 1123 1.314334e-04 6.698058e-02 -3.116535e-01 -0.010704906 -5.991422e-01
## 1124 -9.950960e-01 2.072114e-02 -3.626755e-01 -0.034651338 -6.069043e-01
## 1125 -7.580101e-01 3.658243e-01 -6.596121e-02 -0.684220075 -1.070788e+00
## 1126 -2.627827e-01 -8.791622e-02 -1.493922e-02 -0.660273643 -1.063026e+00
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## 1128 3.288278e-01 2.367454e-01 -4.355135e-01 0.338511850 -3.846806e-01
## 1129 -6.064801e-01 -2.212196e-01 -5.875656e-01 -0.245786617 -8.866058e-01
## 1130 1.444908e-02 -7.179774e-02 -4.647195e-01 -1.082544201 -1.622429e+00
## 1131 -7.226368e-01 -4.169009e-01 -7.614337e-01 -0.932975465 -1.658545e+00
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## 1133 -4.855509e-01 -7.179774e-02 -4.647195e-01 -0.082544201 -6.224285e-01
## 1134 -3.646217e-01 7.762414e-02 -3.418733e-01 -0.419301785 -8.582512e-01
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## 1136 -3.646217e-01 7.762414e-02 -3.418733e-01 -0.419301785 -8.582512e-01
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## 1138 1.922163e-02 -1.180572e-01 -1.574146e-02 -0.606490633 -1.130191e+00
## 1139 -6.586732e-01 -4.046278e-01 -5.893514e-01 -0.734252809 -1.409749e+00
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## 1145 6.115156e-01 3.089213e-01 -8.676335e-02 -0.799569627 -1.319441e+00
## 1146 -2.417270e-01 -2.318632e-01 -5.573457e-01 0.162810262 -6.274969e-01

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## 1147 -1.116025e+00 -1.287007e-01 -4.855216e-01 0.302106246 -3.710816e-01
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## 1149 1.210607e-01 2.164025e-01 -1.888073e-01 -0.347462491 -8.349649e-01
## 1150 5.049040e-01 2.072114e-02 -3.626755e-01 -0.534651338 -1.106904e+00
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## 1187 -2.310918e-01 -3.515490e-01 -3.344834e-01 0.398863885 -3.905174e-01
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## 1191 -1.323083e-01 4.689868e-01 5.862918e-03 -1.044924090 -1.314372e+00
## 1192 1.258332e-01 1.701430e-01 -2.398293e-01 -0.371408922 -8.427270e-01
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## 1211 6.095501e-01 7.678305e-01 2.515552e-01 -0.718439258 -7.860178e-01
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## 1213 -1.016688e+00 -8.991529e-01 -1.008912e+00 -0.247926489 -1.210043e+00
## 1214 -1.274830e+00 -6.003092e-01 -1.263220e+00 0.078558343 -6.816880e-01
## 1215 -8.550766e-01 -1.489474e-02 -4.439173e-01 -0.467194648 -8.737754e-01
## 1216 -7.389199e-01 1.807866e-01 -2.700492e-01 -0.780005801 -1.101836e+00
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## 1229 1.155254e+00 5.768146e-02 -1.580272e-01 0.520735915 -2.827012e-02
## 1230 9.343039e-01 -4.236051e-01 -1.070354e-01 0.599390721 -8.589138e-02
## 1231 -2.274546e-01 1.536408e-01 -3.329395e-01 0.400714614 -3.869539e-01
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## 1235 -1.301838e+00 1.213902e+00 5.564616e-01 -1.603625335 -1.715002e+00
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## 1237 1.419986e+00 2.151732e-01 4.603054e-02 0.671230016 -6.260509e-02
## 1238 -3.027820e-01 2.312917e-01 -4.037497e-01 1.248959458 3.779919e-01
## 1239 -8.800747e-01 2.678517e-01 -1.362414e-01 0.178334670 -3.236393e-01
## 1240 -1.429888e-01 6.129549e-01 1.604728e-01 -0.971234066 -1.287523e+00
## 1241 1.151527e-01 3.141112e-01 -8.521942e-02 -0.297718898 -8.158772e-01
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## 1244 2.569458e-01 8.536452e-01 1.007997e+00 -1.138180210 -1.197840e+00
## 1245 -7.819181e-01 6.214038e-01 5.666210e-01 0.245255731 -2.681479e-01
## 1246 -6.657614e-01 8.170851e-01 7.404892e-01 0.432444578 3.791508e-03
## 1247 9.503952e-01 1.012766e+00 9.143573e-01 0.119633426 -2.242691e-01
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## 1251 4.809960e-01 2.763006e-01 2.699068e-01 0.394824467 -3.042646e-01
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## 1256	-2.866907e-01	6.676633e-01	6.176430e-01	0.269202162	-2.603858e-01
## 1257	-7.866907e-01	6.676633e-01	6.176430e-01	0.269202162	-2.603858e-01
## 1258	-6.705340e-01	8.633446e-01	7.915111e-01	0.456391010	1.155361e-02
## 1259	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1260	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1261	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1262	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1263	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1264	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1265	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1266	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1267	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1268	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1269	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1270	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1271	-5.437731e-02	1.059026e+00	9.653793e-01	0.643579857	2.834930e-01
## 1272	-5.437731e-02	5.590259e-01	-3.462073e-02	0.643579857	2.834930e-01
## 1273	3.013952e+00	1.106251e+00	8.148711e-01	0.561132119	2.851312e-01
## 1274	2.317012e+00	-2.567837e+00	-2.228338e+00	-0.562000966	1.653495e+00
## 1275	-5.795877e-01	-3.557263e+00	-3.631520e+00	-0.912955743	1.662354e+00
## 1276	-2.109179e-01	1.746235e-01	-1.420013e-01	-0.223225174	3.044873e-01
## 1277	-9.476127e-02	3.703048e-01	3.186685e-02	-0.036036326	5.764267e-01
## 1278	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1279	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1280	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1281	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1282	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1283	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1284	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1285	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1286	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1287	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1288	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1289	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1290	5.213954e-01	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1291	2.139541e-02	5.659861e-01	2.057350e-01	0.151152521	8.483661e-01
## 1292	1.375521e-01	7.616674e-01	3.796031e-01	0.338341369	1.120305e+00
## 1293	-2.462912e-01	9.573487e-01	5.534712e-01	0.525530216	8.922449e-01
## 1294	8.478350e-01	1.183066e+00	7.693710e-01	0.761931749	6.564544e-01
## 1295	1.571461e+00	8.517744e-01	5.056981e-01	0.485979425	1.097116e+00
## 1296	3.391473e-01	4.604118e-01	1.579619e-01	0.111601730	1.053237e+00
## 1297	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1298	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1299	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1300	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1301	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1302	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1303	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1304	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1305	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1306	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1307	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1308	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01



## 1309	4.773344e-01	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1310	-2.266557e-02	6.260574e-01	2.897983e-01	0.249577892	8.329063e-01
## 1311	9.349111e-02	8.217388e-01	4.636665e-01	0.436766740	1.104846e+00
## 1312	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1313	2.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1314	8.258045e-01	1.213101e+00	8.114027e-01	0.811144435	1.148725e+00
## 1315	1.687617e+00	1.047456e+00	6.795663e-01	0.673168273	1.369055e+00
## 1316	4.553039e-01	6.560931e-01	3.318300e-01	0.298790578	1.325176e+00
## 1317	9.349111e-02	8.217388e-01	4.636665e-01	0.436766740	1.104846e+00
## 1318	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1319	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1320	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1321	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1322	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1323	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1324	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1325	7.096478e-01	1.017420e+00	6.375346e-01	0.623955587	1.376785e+00
## 1326	2.709648e+00	3.017420e+00	2.637535e+00	2.623955587	1.376785e+00
## 1327	2.149625e+00	2.344458e+00	2.107101e+00	2.068349481	2.250981e+00
## 1328	1.423505e-01	3.340782e-01	1.040131e-01	0.064648023	2.243854e+00
## 1329	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1330	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1331	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1332	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1333	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1334	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1335	-3.049008e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1336	9.274125e-01	1.388023e+00	9.790951e-01	0.990930366	9.064100e-01
## 1337	1.651038e+00	1.056732e+00	7.154222e-01	0.714978042	1.347071e+00
## 1338	4.187249e-01	6.653695e-01	3.676860e-01	0.340600347	1.803193e+00
## 1339	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1340	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1341	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1342	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1343	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1344	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1345	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1346	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1347	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1348	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1349	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1350	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1351	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1352	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1353	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1354	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1355	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1356	-3.049008e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1357	9.274125e-01	1.388023e+00	9.790951e-01	0.990930366	4.064100e-01
## 1358	1.512851e+00	8.910865e-01	5.835858e-01	0.577001880	1.067402e+00
## 1359	2.805377e-01	4.997239e-01	2.358495e-01	0.202624185	2.023523e+00
## 1360	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1361	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1362	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00

## 1363	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1364	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1365	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1366	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1367	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1368	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1369	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	1.362531e+00
## 1370	6.950992e-01	9.966608e-01	6.313589e-01	0.616552671	8.625312e-01
## 1371	5.569120e-01	8.310151e-01	4.995224e-01	0.478576509	5.828619e-01
## 1372	4.187249e-01	6.653695e-01	3.676860e-01	0.340600347	8.031926e-01
## 1373	4.187249e-01	6.653695e-01	3.676860e-01	0.340600347	8.031926e-01
## 1374	-8.127515e-02	6.653695e-01	3.676860e-01	0.340600347	8.031926e-01
## 1375	3.488153e-02	8.610508e-01	5.415541e-01	0.527789194	1.075132e+00
## 1376	6.510382e-01	1.056732e+00	7.154222e-01	0.714978042	1.347071e+00
## 1377	6.510382e-01	1.056732e+00	7.154222e-01	0.714978042	8.470714e-01
## 1378	-4.871490e-01	8.910865e-01	5.835858e-01	0.577001880	5.674021e-01
## 1379	6.069772e-01	1.116803e+00	7.994856e-01	0.813403413	3.316117e-01
## 1380	1.330603e+00	7.855122e-01	5.358127e-01	0.537451089	7.722731e-01
## 1381	9.828953e-02	3.941496e-01	1.880764e-01	0.163073394	1.228394e+00
## 1382	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1383	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1384	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1385	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1386	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1387	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1388	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1389	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1390	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1391	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1392	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1393	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1394	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1395	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1396	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1397	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1398	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1399	-1.253361e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1400	4.908205e-01	9.211222e-01	6.256175e-01	0.626214566	5.967228e-02
## 1401	7.144462e-01	5.898309e-01	3.619446e-01	0.350262242	5.003337e-01
## 1402	9.828953e-02	3.941496e-01	1.880764e-01	0.163073394	1.228394e+00
## 1403	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1404	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1405	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1406	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1407	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1408	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1409	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1410	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1411	3.746639e-01	7.254408e-01	4.517493e-01	-0.560974282	7.877329e-01
## 1412	4.091798e-01	7.578884e-01	4.697300e-01	-0.611506790	8.187168e-01
## 1413	4.436956e-01	7.903359e-01	4.877106e-01	0.337960702	8.497008e-01
## 1414	4.436956e-01	7.903359e-01	4.877106e-01	1.337960702	8.497008e-01
## 1415	4.091798e-01	7.578884e-01	4.697300e-01	0.888493210	8.187168e-01
## 1416	3.919218e-01	7.416646e-01	4.607397e-01	0.413759464	8.032248e-01

## 1417	3.919218e-01	7.416646e-01	4.607397e-01	0.913759464	8.032248e-01
## 1418	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1419	-1.253361e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1420	4.908205e-01	9.211222e-01	6.256175e-01	0.626214566	5.596723e-01
## 1421	8.526334e-01	7.554765e-01	4.937810e-01	0.488238404	7.800030e-01
## 1422	2.364767e-01	5.597952e-01	3.199129e-01	0.301049556	1.008064e+00
## 1423	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1424	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1425	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1426	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1427	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1428	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1429	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1430	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1431	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1432	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1433	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1434	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1435	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1436	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1437	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1438	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1439	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1440	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	2.877329e-01
## 1441	2.364767e-01	5.597952e-01	3.199129e-01	0.301049556	5.080636e-01
## 1442	2.364767e-01	5.597952e-01	3.199129e-01	0.301049556	1.008064e+00
## 1443	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1444	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1445	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
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## 1447	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1448	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1449	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1450	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1451	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1452	3.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1453	3.746639e-01	7.254408e-01	4.517493e-01	-0.060974282	7.877329e-01
## 1454	3.919218e-01	7.416646e-01	4.607397e-01	0.413759464	8.032248e-01
## 1455	3.919218e-01	7.416646e-01	4.607397e-01	0.913759464	8.032248e-01
## 1456	8.746639e-01	7.254408e-01	4.517493e-01	0.439025718	7.877329e-01
## 1457	-7.414928e-01	5.297595e-01	1.777881e+00	1.751836871	5.157935e-01
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## 1459	-3.198935e-02	3.847743e-01	1.308310e+00	0.756743917	-5.866887e-01
## 1460	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1461	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1462	-4.292929e-01	-9.593883e-02	4.217907e-01	0.817549177	8.979543e-02
## 1463	-3.675548e-01	-5.049492e-03	8.215326e-01	0.758122506	9.741401e-02
## 1464	-3.675548e-01	-5.049492e-03	1.321533e+00	0.758122506	9.741401e-02
## 1465	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1466	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1467	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1468	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1469	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1470	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02

## 1471	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1472	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1473	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1474	-4.292929e-01	-5.959388e-01	9.217907e-01	0.817549177	8.979543e-02
## 1475	-4.844399e-01	-2.304927e-01	9.717988e-01	0.853954781	7.619649e-02
## 1476	-4.844399e-01	-2.304927e-01	9.717988e-01	0.853954781	7.619649e-02
## 1477	-4.844399e-01	-2.304927e-01	9.717988e-01	0.853954781	7.619649e-02
## 1478	-4.844399e-01	-2.304927e-01	9.717988e-01	0.853954781	7.619649e-02
## 1479	-4.844399e-01	-7.304927e-01	9.717988e-01	0.853954781	7.619649e-02
## 1480	-5.395869e-01	1.349534e-01	1.021807e+00	0.890360384	6.259756e-02
## 1481	-4.844399e-01	2.695073e-01	9.717988e-01	0.853954781	7.619649e-02
## 1482	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1483	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1484	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1485	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1486	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1487	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1488	-4.292929e-01	-5.959388e-01	9.217907e-01	0.817549177	8.979543e-02
## 1489	-4.844399e-01	-2.304927e-01	9.717988e-01	0.853954781	7.619649e-02
## 1490	-4.844399e-01	2.695073e-01	9.717988e-01	0.853954781	7.619649e-02
## 1491	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1492	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1493	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1494	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
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## 1497	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1498	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1499	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1500	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1501	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1502	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1503	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1504	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1505	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1506	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1507	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1508	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1509	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1510	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1511	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1512	-4.292929e-01	-9.593883e-02	9.217907e-01	0.817549177	8.979543e-02
## 1513	1.207071e+01	1.240406e+01	9.217907e-01	0.817549177	8.979543e-02
## 1514	1.054547e+01	1.087587e+01	7.824885e+00	7.727687896	6.131284e+00
## 1515	-1.999999e+00	-2.188998e+00	7.805586e+00	7.704553782	6.086740e+00
## 1516	-5.753686e-01	-1.360238e+00	9.332006e-01	0.807686553	-1.289085e-02
## 1517	-6.856626e-01	-1.629346e+00	1.033217e+00	0.880497761	-4.008872e-02
## 1518	-7.959566e-01	-1.398454e+00	1.133233e+00	0.953308968	-6.728659e-02
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## 1522	-7.408096e-01	-1.263900e+00	1.083225e+00	0.916903364	-5.368765e-02
## 1523	-7.959566e-01	-3.984538e-01	1.133233e+00	0.953308968	-6.728659e-02
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## 1531 -5.202216e-01 -7.256845e-01 8.831925e-01 0.771280950 7.080835e-04
## 1532 -5.753686e-01 -8.602383e-01 9.332006e-01 0.807686553 -1.289085e-02
## 1533 -6.305156e-01 -4.947922e-01 9.832087e-01 0.844092157 -2.648978e-02
## 1534 8.694844e-01 1.505208e+00 9.832087e-01 1.344092157 -2.648978e-02
## 1535 7.243444e-01 9.401555e-01 -1.247418e+00 -0.837830547 -1.303404e+00
## 1536 -8.771416e-01 -1.103757e+00 -2.333677e+00 -2.375402582 -2.804255e+00
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## 1602 -9.299901e-01 -6.733749e-01 -2.699478e+00 -2.697984531 -3.097023e+00
## 1603 -9.299901e-01 -6.733749e-01 -2.699478e+00 -2.197984531 -2.597023e+00
## 1604 -8.090608e-01 -5.239530e-01 -2.076632e+00 -2.534742115 -2.832845e+00
## 1605 3.662920e+01 3.688516e+01 3.502363e+01 34.524684555 3.465954e+01
## 1606 3.601007e+01 3.620676e+01 3.447472e+01 34.430015960 3.404140e+01
## 1607 -1.124509e+00 -9.852606e-01 -2.582406e+00 -2.638461016 -3.090452e+00
## 1608 -6.245086e-01 -4.852606e-01 -2.082406e+00 -1.638461016 -1.590452e+00
## 1609 -8.672108e-01 -6.727880e-01 -1.328496e+00 -1.338167803 -2.048388e+00
## 1610 -8.870157e-01 -7.213686e-01 -1.514124e+00 -2.030805791 -2.814939e+00
## 1611 -1.086941e+00 -9.779036e-01 -2.545702e+00 -2.609355283 -3.102227e+00
## 1612 -1.146132e+00 -1.036436e+00 -2.768806e+00 -2.832024369 -3.358786e+00
## 1613 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -2.615345e+00
## 1614 -1.067136e+00 -9.293230e-01 -2.360074e+00 -2.416717294 -2.835675e+00
## 1615 -1.067136e+00 -9.293230e-01 -2.360074e+00 -2.416717294 -3.335675e+00
## 1616 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -3.115345e+00
## 1617 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -2.615345e+00
## 1618 -1.067136e+00 -9.293230e-01 -2.360074e+00 -2.416717294 -2.335675e+00
## 1619 -9.289489e-01 -7.636774e-01 -2.228238e+00 -2.278741132 -2.556006e+00
## 1620 -9.289489e-01 -7.636774e-01 -2.228238e+00 -2.278741132 -3.056006e+00
## 1621 -1.067136e+00 -9.293230e-01 -2.360074e+00 -2.416717294 -3.335675e+00
## 1622 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -3.115345e+00
## 1623 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -3.615345e+00
## 1624 -1.343510e+00 -1.260614e+00 -2.623747e+00 -2.692669618 -3.895014e+00
## 1625 -1.481698e+00 -1.426260e+00 -2.755583e+00 -2.830645780 -3.174683e+00
## 1626 -1.343510e+00 -1.260614e+00 -2.623747e+00 -2.692669618 -2.895014e+00
## 1627 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -3.115345e+00
## 1628 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -2.615345e+00
## 1629 -1.067136e+00 -1.429323e+00 -2.360074e+00 -2.416717294 -2.335675e+00
## 1630 -9.840959e-01 -8.982312e-01 -2.178229e+00 -2.242335528 -2.569605e+00
## 1631 -9.840959e-01 -3.982312e-01 -2.178229e+00 -2.242335528 -2.569605e+00
## 1632 -9.289489e-01 -7.636774e-01 -2.228238e+00 -2.278741132 -2.556006e+00

```

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## 1633 -9.289489e-01 -7.636774e-01 -2.228238e+00 -2.278741132 -3.056006e+00
## 1634 -1.067136e+00 -9.293230e-01 -2.360074e+00 -2.416717294 -3.335675e+00
## 1635 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -3.115345e+00
## 1636 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -3.115345e+00
## 1637 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -3.115345e+00
## 1638 -1.205323e+00 -1.094969e+00 -2.491910e+00 -2.554693456 -3.615345e+00
## 1639 -1.343510e+00 -1.260614e+00 -2.623747e+00 -2.692669618 -3.395014e+00
## 1640 -1.343510e+00 -1.260614e+00 -2.623747e+00 -2.692669618 -3.395014e+00
## 1641 -1.343510e+00 -1.260614e+00 -2.623747e+00 -2.692669618 -3.895014e+00
## 1642 -1.481698e+00 -1.426260e+00 -3.255583e+00 -3.330645780 -4.174683e+00
## 1643 -1.540889e+00 -1.484792e+00 -3.478688e+00 -3.553314867 -4.931242e+00
## 1644 3.576173e+01 3.579103e+01 3.366637e+01 33.586039885 3.203253e+01
## 1645 3.542796e+01 3.537223e+01 3.275353e+01 33.155992295 3.186267e+01
## 1646 -2.205884e+00 -2.290029e+00 -4.627726e+00 -4.195505803 -5.519900e+00
## 1647 -2.144146e+00 -2.199140e+00 -4.227984e+00 -4.754932474 -6.012282e+00
## 1648 -2.265076e+00 -2.348561e+00 -4.350830e+00 -4.918174890 -6.276459e+00
## 1649 -2.386005e+00 -2.497983e+00 -4.973676e+00 -5.081417306 -7.040636e+00
## 1650 -2.583383e+00 -2.722162e+00 -5.328617e+00 -5.442062555 -6.576864e+00
## 1651 -2.504387e+00 -2.615048e+00 -4.419885e+00 -4.026755479 -4.553754e+00
## 1652 -2.047892e+00 -2.075803e+00 -2.810262e+00 -2.864891653 -2.473679e+00
## 1653 -1.455757e+00 -1.403268e+00 -2.245440e+00 -2.782955907 -1.864995e+00
## 1654 -1.043743e+00 -9.386881e-01 -2.526568e+00 -2.586931664 -2.277047e+00
## 1655 -9.055558e-01 -7.730424e-01 -2.394731e+00 -2.448955502 -1.997378e+00
## 1656 -7.673686e-01 -6.073968e-01 -2.262895e+00 -2.310979340 -2.217708e+00
## 1657 -7.673686e-01 -6.073968e-01 -2.262895e+00 -2.310979340 -2.717708e+00
## 1658 -9.055558e-01 -7.730424e-01 -2.394731e+00 -2.448955502 -2.997378e+00
## 1659 -1.043743e+00 -9.386881e-01 -2.526568e+00 -2.586931664 -2.777047e+00
## 1660 -1.043743e+00 -9.386881e-01 -2.526568e+00 -2.586931664 -2.277047e+00
## 1661 -9.055558e-01 -7.730424e-01 -2.394731e+00 -2.448955502 -2.497378e+00
## 1662 -9.055558e-01 -7.730424e-01 -2.394731e+00 -2.448955502 -2.997378e+00
## 1663 -1.043743e+00 -9.386881e-01 -2.526568e+00 -2.586931664 -3.277047e+00
## 1664 -1.181930e+00 -1.104334e+00 -2.658404e+00 -2.724907826 -4.056716e+00
## 1665 -1.458304e+00 -1.435625e+00 -2.922077e+00 -3.000860150 -4.616055e+00
## 1666 -1.734679e+00 -1.766916e+00 -3.185750e+00 -3.276812473 -4.175393e+00
## 1667 -1.734679e+00 -1.766916e+00 -3.185750e+00 -3.276812473 -3.175393e+00
## 1668 -1.458304e+00 -1.435625e+00 -2.922077e+00 -3.000860150 -2.616055e+00
## 1669 -1.181930e+00 -1.104334e+00 -2.658404e+00 -2.724907826 -2.056716e+00
## 1670 -9.055558e-01 -1.273042e+00 -2.394731e+00 -2.448955502 -1.997378e+00
## 1671 -8.225156e-01 -7.419507e-01 -2.212887e+00 -1.774573736 -2.231307e+00
## 1672 -8.397736e-01 -2.581744e-01 -2.221877e+00 -2.249307482 -2.246799e+00
## 1673 3.671537e+01 3.687638e+01 3.522811e+01 35.214286914 3.526680e+01
## 1674 3.657898e+01 3.668176e+01 3.517022e+01 35.644884573 3.513317e+01
## 1675 -1.074671e+00 -1.029081e+00 -2.396670e+00 -2.899251514 -3.515954e+00
## 1676 -1.333787e+00 -1.344149e+00 -2.651353e+00 -3.200470092 -4.059801e+00
## 1677 -1.592903e+00 -1.659216e+00 -2.906035e+00 -3.001688670 -3.603648e+00
## 1678 -1.592903e+00 -1.659216e+00 -2.906035e+00 -3.001688670 -3.603648e+00
## 1679 -1.592903e+00 -1.659216e+00 -2.906035e+00 -3.001688670 -3.103648e+00
## 1680 -1.454716e+00 -1.493571e+00 -1.774199e+00 -1.863712508 -2.323978e+00
## 1681 -1.336334e+00 -1.376506e+00 -1.327990e+00 -1.418374335 -1.810861e+00
## 1682 -1.217952e+00 -1.259440e+00 -1.881782e+00 -1.973036161 -2.297743e+00
## 1683 -1.217952e+00 -1.259440e+00 -2.381782e+00 -2.473036161 -2.797743e+00
## 1684 -1.277143e+00 -1.317973e+00 -2.604886e+00 -2.695705248 -2.554302e+00
## 1685 -1.198147e+00 -1.210860e+00 -2.196154e+00 -2.280398173 -2.531192e+00
## 1686 -1.198147e+00 -1.210860e+00 -2.196154e+00 -2.280398173 -3.031192e+00

```

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## 1687 -1.336334e+00 -1.376506e+00 -2.327990e+00 -2.418374335 -2.810861e+00
## 1688 -1.336334e+00 -1.376506e+00 -1.827990e+00 -1.918374335 -2.310861e+00
## 1689 -1.277143e+00 -1.317973e+00 -1.604886e+00 -1.695705248 -2.054302e+00
## 1690 -1.217952e+00 -1.259440e+00 -8.817819e-01 -0.973036161 -1.297743e+00
## 1691 -1.099570e+00 -1.142375e+00 -9.355734e-01 -1.027697988 -1.284626e+00
## 1692 -1.040379e+00 -1.083843e+00 -1.712469e+00 -1.805028901 -2.028067e+00
## 1693 -1.099570e+00 -1.142375e+00 -1.435573e+00 -1.527697988 -2.284626e+00
## 1694 -1.237757e+00 -1.308021e+00 -2.067410e+00 -2.165674150 -2.564295e+00
## 1695 -1.296948e+00 -1.366554e+00 -2.790514e+00 -2.888343236 -2.820854e+00
## 1696 -1.277143e+00 -1.317973e+00 -2.604886e+00 -2.695705248 -2.554302e+00
## 1697 -1.198147e+00 -1.210860e+00 -2.196154e+00 -2.280398173 -2.531192e+00
## 1698 -1.198147e+00 -1.210860e+00 -2.196154e+00 -2.280398173 -2.531192e+00
## 1699 -1.198147e+00 2.378914e+01 -2.196154e+00 -2.280398173 -2.531192e+00
## 1700 1.559203e+00 3.051683e+01 -4.696559e+00 -4.100678360 -1.851245e+00
## 1701 2.931655e+01 1.224453e+01 1.830304e+01 19.579041453 2.482870e+01
## 1702 2.666565e+01 5.611266e+00 2.161978e+01 22.213698661 2.459590e+01
## 1703 -1.064244e+00 -1.129108e+00 -1.472201e+00 -1.566951205 -2.660021e+00
## 1704 -1.340618e+00 -1.460399e+00 -2.735874e+00 -2.842903529 -3.219359e+00
## 1705 -1.459000e+00 -1.577464e+00 -2.682083e+00 -2.788241703 -2.732477e+00
## 1706 -1.380004e+00 -1.470351e+00 -2.273350e+00 -2.372934627 -2.709366e+00
## 1707 -1.380004e+00 -1.470351e+00 -2.273350e+00 -2.372934627 -2.709366e+00
## 1708 -1.380004e+00 -1.470351e+00 -2.273350e+00 -1.872934627 -2.709366e+00
## 1709 -1.397262e+00 -1.486575e+00 -2.282341e+00 -2.347668373 -2.724858e+00
## 1710 -1.397262e+00 -1.486575e+00 -2.282341e+00 -2.847668373 -2.724858e+00
## [[1]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    1.23231335  0.39136263  0.34773625  0.37437769  0.54387881
## OBFR   -0.11029399  0.73089227  0.10001621  0.07281121 -0.02719787
## TGCR    0.12347623  0.18177868  0.79948373 -0.11885334  0.01523716
## BGCR    0.03451589  0.03244753  0.01798063  0.94946749  0.03098395
## SOFR   -0.27637434 -0.33129128 -0.26367289 -0.27595232  0.44066144
## ones_v -0.02835331 -0.54024139 -0.36392281 -0.36917778 -0.21529228
##
## [[2]]
##          [,1]          [,2]          [,3]          [,4]          [,5]
## [1,] 0.12314219 0.10588478 0.15758167 0.15771821 0.15408631
## [2,] 0.12785935 0.10668655 0.12939673 0.12963732 0.13272986
## [3,] 0.13141746 0.10692555 0.15403327 0.16168062 0.15750897
## [4,] 0.03199691 0.05282519 0.06181607 0.07574021 0.03451776
## [5,] 0.11586016 0.09207783 0.14471400 0.14520106 0.14652283
## [6,] 0.14996407 0.30310265 0.29565387 0.27442340 0.14517041
##
## [[3]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999991 0.9999986 0.9999972 0.9999972 0.9999978
##
## [[4]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999991 0.9999986 0.9999972 0.9999972 0.9999978
##
## [[5]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    0.015163999 -0.014846454  0.014897462 -0.0010645352 -0.0140852551
## OBFR   -0.014846454  0.016348014 -0.016458391  0.0012051768  0.0136830197

```



```

## TGCR      0.014897462 -0.016458391  0.017270549 -0.0018604871 -0.0137701188
## BGCR      -0.001064535  0.001205177 -0.001860487  0.0010238024  0.0006855937
## SOFR      -0.014085255  0.013683020 -0.013770119  0.0006855937  0.0134235770
## ones_v    -0.009657933  0.010252385 -0.009438792  0.0006924299  0.0080346627
##           ones_v      EFFR      OBFR      TGCR      BGCR
## EFFR      -0.0096579334  0.011211586 -0.010485805  0.009463201 -0.0025838589
## OBFR      0.0102523846 -0.010485805  0.011382019 -0.010444867  0.0024441482
## TGCR      -0.0094387918  0.009463201 -0.010444867  0.011433074 -0.0025344969
## BGCR      0.0006924299 -0.002583859  0.002444148 -0.002534497  0.0027905004
## SOFR      0.0080346627 -0.007536832  0.007041566 -0.007848825 -0.0001606303
## ones_v    0.0224892209 -0.017569442  0.016578786 -0.011365218  0.0121487800
##           SOFR      ones_v      EFFR      OBFR      TGCR
## EFFR      -0.0075368321 -0.0175694419  0.024831982  0.002467867 -0.007163697
## OBFR      0.0070415664  0.0165787857  0.002467867  0.016743513 -0.018704516
## TGCR      -0.0078488250 -0.0113652178 -0.007163697 -0.018704516  0.023726249
## BGCR      -0.0001606303  0.0121487800  0.000420388  0.004974454 -0.006298964
## SOFR      0.0084783260 -0.0001034913 -0.020735521 -0.005741588  0.008780879
## ones_v    -0.0001034913  0.0918712153 -0.015103017  0.017104668 -0.013401337
##           BGCR      SOFR      ones_v      EFFR      OBFR
## EFFR      0.000420388 -0.020735521 -0.015103017  0.0248750349  0.002303683
## OBFR      0.004974454 -0.005741588  0.017104668  0.0023036827  0.016805835
## TGCR      -0.006298964  0.008780879 -0.013401337 -0.0064530822 -0.019238855
## BGCR      0.003821226 -0.003027904  0.012616650  0.0002396102  0.005131542
## SOFR      -0.003027904  0.020942141 -0.001568661 -0.0211452057 -0.005259418
## ones_v    0.012616650 -0.001568661  0.087411209 -0.0133636637  0.015528292
##           TGCR      BGCR      SOFR      ones_v      EFFR
## EFFR      -0.006453082  0.0002396102 -0.0211452057 -0.0133636637  0.023742590
## OBFR      -0.019238855  0.0051315424 -0.0052594177  0.0155282923  0.001385602
## TGCR      0.026140624 -0.0084302173  0.0083294391 -0.0135517165 -0.004957009
## BGCR      -0.008430217  0.0057365800 -0.0027942603  0.0116225849  0.002116801
## SOFR      0.008329439 -0.0027942603  0.0210833472 -0.0005604613 -0.022489389
## ones_v    -0.013551717  0.0116225849 -0.0005604613  0.0753082003 -0.004559497
##           OBFR      TGCR      BGCR      SOFR      ones_v
## EFFR      0.001385602 -0.004957009  0.002116801 -0.022489389 -0.004559497
## OBFR      0.017617216 -0.020533798  0.003442789 -0.002155878  0.008396916
## TGCR      -0.020533798  0.024809075 -0.004596108  0.005607531 -0.008440830
## BGCR      0.003442789 -0.004596108  0.001191476 -0.002231430  0.001035799
## SOFR      -0.002155878  0.005607531 -0.002231430  0.021468939  0.003391404
## ones_v    0.008396916 -0.008440830  0.001035799  0.003391404  0.021074449
##
## [[6]]
##           [,1] [,2] [,3]
## [1,] 1238007.1    6    0
## [2,]  778520.2    6    0
## [3,]  526076.4    6    0
## [4,]  516905.9    6    0
## [5,] 1770008.0    6    0

```

```
print(result[[1]]) # bv
```

```

##           EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR      1.23231335  0.39136263  0.34773625  0.37437769  0.54387881
## OBFR      -0.11029399  0.73089227  0.10001621  0.07281121 -0.02719787
## TGCR      0.12347623  0.18177868  0.79948373 -0.11885334  0.01523716

```

```
## BGCR      0.03451589  0.03244753  0.01798063  0.94946749  0.03098395
## SOFR      -0.27637434 -0.33129128 -0.26367289 -0.27595232  0.44066144
## ones_v    -0.02835331 -0.54024139 -0.36392281 -0.36917778 -0.21529228
```

```
print(result[[2]]) # sebv
```

```
##           [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.12314219 0.10588478 0.15758167 0.15771821 0.15408631
## [2,] 0.12785935 0.10668655 0.12939673 0.12963732 0.13272986
## [3,] 0.13141746 0.10692555 0.15403327 0.16168062 0.15750897
## [4,] 0.03199691 0.05282519 0.06181607 0.07574021 0.03451776
## [5,] 0.11586016 0.09207783 0.14471400 0.14520106 0.14652283
## [6,] 0.14996407 0.30310265 0.29565387 0.27442340 0.14517041
```

```
print(result[[4]]) # R2adj
```

```
##           EFFR      OBFR      TGCR      BGCR      SOFR
## [1,] 0.9999991 0.9999986 0.9999972 0.9999972 0.9999978
```

```
print(result[[5]]) # v covariance
```

```
##           EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR      0.015163999 -0.014846454  0.014897462 -0.0010645352 -0.0140852551
## OBFR      -0.014846454  0.016348014 -0.016458391  0.0012051768  0.0136830197
## TGCR      0.014897462 -0.016458391  0.017270549 -0.0018604871 -0.0137701188
## BGCR      -0.001064535  0.001205177 -0.001860487  0.0010238024  0.0006855937
## SOFR      -0.014085255  0.013683020 -0.013770119  0.0006855937  0.0134235770
## ones_v    -0.009657933  0.010252385 -0.009438792  0.0006924299  0.0080346627
##           ones_v      EFFR      OBFR      TGCR      BGCR
## EFFR      -0.0096579334  0.011211586 -0.010485805  0.009463201 -0.0025838589
## OBFR      0.0102523846 -0.010485805  0.011382019 -0.010444867  0.0024441482
## TGCR      -0.0094387918  0.009463201 -0.010444867  0.011433074 -0.0025344969
## BGCR      0.0006924299 -0.002583859  0.002444148 -0.002534497  0.0027905004
## SOFR      0.0080346627 -0.007536832  0.007041566 -0.007848825 -0.0001606303
## ones_v    0.0224892209 -0.017569442  0.016578786 -0.011365218  0.0121487800
##           SOFR      ones_v      EFFR      OBFR      TGCR
## EFFR      -0.0075368321 -0.0175694419  0.024831982  0.002467867 -0.007163697
## OBFR      0.0070415664  0.0165787857  0.002467867  0.016743513 -0.018704516
## TGCR      -0.0078488250 -0.0113652178 -0.007163697 -0.018704516  0.023726249
## BGCR      -0.0001606303  0.0121487800  0.000420388  0.004974454 -0.006298964
## SOFR      0.0084783260 -0.0001034913 -0.020735521 -0.005741588  0.008780879
## ones_v    -0.0001034913  0.0918712153 -0.015103017  0.017104668 -0.013401337
##           BGCR      SOFR      ones_v      EFFR      OBFR
## EFFR      0.000420388 -0.020735521 -0.015103017  0.0248750349  0.002303683
## OBFR      0.004974454 -0.005741588  0.017104668  0.0023036827  0.016805835
## TGCR      -0.006298964  0.008780879 -0.013401337 -0.0064530822 -0.019238855
## BGCR      0.003821226 -0.003027904  0.012616650  0.0002396102  0.005131542
## SOFR      -0.003027904  0.020942141 -0.001568661 -0.0211452057 -0.005259418
## ones_v    0.012616650 -0.001568661  0.087411209 -0.0133636637  0.015528292
##           TGCR      BGCR      SOFR      ones_v      EFFR
## EFFR      -0.006453082  0.0002396102 -0.0211452057 -0.0133636637  0.023742590
## OBFR      -0.019238855  0.0051315424 -0.0052594177  0.0155282923  0.001385602
```

```
## TGCR      0.026140624 -0.0084302173  0.0083294391 -0.0135517165 -0.004957009
## BGCR      -0.008430217  0.0057365800 -0.0027942603  0.0116225849  0.002116801
## SOFR       0.008329439 -0.0027942603  0.0210833472 -0.0005604613 -0.022489389
## ones_v    -0.013551717  0.0116225849 -0.0005604613  0.0753082003 -0.004559497
##           OBFR      TGCR      BGCR      SOFR      ones_v
## EFFR      0.001385602 -0.004957009  0.002116801 -0.022489389 -0.004559497
## OBFR      0.017617216 -0.020533798  0.003442789 -0.002155878  0.008396916
## TGCR      -0.020533798  0.024809075 -0.004596108  0.005607531 -0.008440830
## BGCR       0.003442789 -0.004596108  0.001191476 -0.002231430  0.001035799
## SOFR      -0.002155878  0.005607531 -0.002231430  0.021468939  0.003391404
## ones_v     0.008396916 -0.008440830  0.001035799  0.003391404  0.021074449
```

```
print(result[[6]]) # Ftest
```

```
##           [,1] [,2] [,3]
## [1,] 1238007.1      6      0
## [2,]  778520.2      6      0
## [3,]  526076.4      6      0
## [4,]  516905.9      6      0
## [5,] 1770008.0      6      0
```

```
bvtablek2<-xtable(result[[1]])
sebvtablek2<-xtable(result[[2]])
R2adjtablek2<-xtable(result[[4]])
vtablek2<-xtable(result[[5]])
Ftesttablek2<-xtable(result[[6]])
#rrbpk2table <- cbind(bvtablek2, sebvtablek2)
```

```
k=5
```

```
lhv<- rrbp5[2:1706,1:5]
T<-nrow(lhv)
ones_v <- rep(1, times = T)
nrow(ones_v)
```

```
## NULL
```

```
rhv1<- rrbp5[1:1705,1:5]
rhv<- cbind(rhv1, ones_v) # Add a column of ones
nrow(lhv)
```

```
## [1] 1705
```

```
nrow(rhv)
```

```
## [1] 1705
```

```
nlag<-1
nw<-1
result <-olsghmmv2(lhv,rhv,nlag,nw) #constant
```

```

## [1] 1705
## [1] 1705
## [1] 1705
## [1] 5
## [1] 6
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 108.0774 104.5635 104.1945 105.3252 107.8833
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 6      -2.377147e-01  0.015204906  2.630122e-01  0.925761671 -3.001513e-01
## 7      -2.768403e-01  0.183124738  6.671587e-02  0.744970790 -3.243900e-01
## 8      -2.869279e-01  -0.008543505  -3.458132e-01  0.150955840 -1.401321e-01
## 9      -2.230653e-01  -0.324778107  -7.255956e-01  -0.615112913 -8.054808e-02
## 10     -1.414374e-01  -0.633637045  -9.035825e-01  -1.391254833 -6.857733e-03
## 11     -5.380437e-02  -0.749206321  -1.265602e+00  -2.768356475  8.023675e-02
## 12      7.847201e-02  -1.020455511  -8.192124e-01  -1.759664420  1.986623e-01
## 13      1.382720e-01  -0.588456301  4.663252e-02  -0.124490460  8.594913e-02
## 14      8.907856e-02  0.134407682  4.799957e-01  0.696921096  7.600905e-02
## 15      4.707540e-02  0.491929343  6.987694e-01  1.520207076  5.812132e-02
## 16     -9.328645e-04  0.656161342  1.101575e+00  2.144452778  2.682946e-02
## 17     -7.438402e-02  0.797310257  3.133192e-01  1.182859762 -1.693283e-02
## 18     -6.431623e-02  0.042366106  -1.163403e-01  0.980657325 -3.123147e-02
## 19     -2.475839e+00  -0.363163474  -1.444202e-01  0.376614232 -5.172795e-02
## 20      4.440052e-01  0.262633525  2.015364e-01  0.353370562 -1.729516e+00
## 21     -1.340008e-01  -0.367194561  -7.021173e-01  -0.556944495 -8.144730e-02
## 22     -9.679773e-02  -0.530025472  -1.252276e-01  -0.180219219 -6.827473e-02
## 23     -1.169531e-01  0.033250435  -3.080971e-01  -1.372031733 -6.971820e-02
## 24      2.340886e+00  -0.294482139  -2.983103e-01  -0.985323336 -3.293065e-02
## 25     -5.777537e-01  -0.932298727  -6.326357e-01  -0.763028133  1.653547e+00
## 26     -3.342834e-03  -0.119799480  7.831273e-02  -0.053650287  9.451504e-03
## 27     -1.510298e-02  0.066114517  9.248506e-02  0.155463156  8.749367e-03
## 28     -1.918549e-02  0.067735935  -1.040761e-01  -0.039511517  6.411388e-03
## 29     -6.707727e-03  0.088752606  -1.104731e-01  0.756389112  9.490704e-03
## 30     -1.343044e-02  0.088532277  -1.342163e-01  0.152334763 -6.290611e-03
## 31     -5.752804e-03  -0.295760302  -5.449498e-01  -0.851753353 -7.926453e-03
## 32      2.449021e-02  -0.667367966  -7.495512e-01  -1.065925890  9.259136e-03
## 33      4.633796e-02  -0.661613720  -9.511945e-01  -1.081024382  2.570339e-02
## 34      7.994587e-02  -0.841773470  -1.670102e-01  -0.705236318  4.284978e-02
## 35      4.443519e-02  -0.309912404  -5.284127e-01  -1.088872600  4.467799e-02
## 36      7.947832e-02  -0.276210818  -3.286775e-01  -0.303056392  6.657873e-02
## 37      8.356082e-02  -0.077832236  -1.321163e-01  -0.308081720  6.891671e-02
## 38      8.836094e-02  -0.072522986  -1.277797e-01  -0.508092975  7.363187e-02
## 39      9.796118e-02  -0.061904486  -3.191066e-01  -1.108115486  8.306219e-02
## 40     -1.266278e+00  -0.221272232  -3.115960e-01  -0.517285207  1.073401e-01
## 41      4.587259e-01  0.165917700  4.091042e-01  0.411714971 -8.570193e-01
## 42      9.013624e-02  0.159051885  1.335449e-01  0.330186698  9.449381e-02
## 43      8.125361e-02  0.155364053  5.326471e-01  0.935223281  8.744068e-02
## 44      3.445033e-02  0.507576464  1.470843e-01  0.758520516  6.483779e-02
## 45      1.440923e+00  0.335303474  3.247195e-01  0.955380868  5.451297e-02
## 46     -2.977637e-01  -0.060883540  -2.012151e-01  0.431428528  1.007104e+00
## 47      3.578280e-02  0.112280688  7.460908e-02  0.727140593  3.369023e-02
## 48      1.729994e-02  0.097974356  -1.349618e-01  0.332199687  1.720678e-02
## 49      2.017746e-02  -0.091627473  -3.500319e-01  -0.071877173  1.085578e-02
## 50      3.193761e-02  -0.277541470  3.579573e-02  0.519009384  1.155792e-02
## 51     -6.700659e-03  0.071428105  -1.566447e-01  0.332255965 -6.369010e-03

```

## 52	-3.823137e-03	-0.118173724	-3.717148e-01	-0.271820895	-1.272001e-02
## 53	1.273713e-02	-0.298778470	-5.815506e-01	-1.080945593	-7.302715e-03
## 54	4.778026e-02	-0.465076885	-7.818154e-01	-1.495129386	1.459803e-02
## 55	9.170602e-02	-0.627687466	-9.811825e-01	-2.514349761	4.355191e-02
## 56	1.589148e-01	-0.770682466	-1.666420e-01	-1.138640486	9.370441e-02
## 57	1.330043e-01	-0.228202900	-3.193714e-01	-1.322299279	1.049629e-01
## 58	1.610874e-01	-0.003278067	-1.011273e-01	-0.127380884	1.308767e-01
## 59	1.610874e-01	-0.203278067	-1.011273e-01	-0.527380884	1.308767e-01
## 60	1.582099e-01	-0.013676238	5.139428e-01	1.676695976	1.372277e-01
## 61	-1.520272e+00	0.496282501	-2.825695e-01	0.304137605	9.268487e-02
## 62	4.806031e-01	0.401088131	4.408828e-01	1.464504858	-1.016991e+00
## 63	5.198323e-02	-0.063657818	9.555906e-02	0.736826014	5.116976e-02
## 64	2.102261e-02	0.301019178	2.923851e-01	1.745984480	3.160699e-02
## 65	-2.074324e-02	0.267097263	-1.310934e-01	0.156113923	-6.075072e-03
## 66	1.599412e+00	-0.096178645	2.517762e-01	0.747926436	-4.631599e-03
## 67	-4.045901e-01	-0.183875766	-1.027140e-01	0.184442046	1.085289e+00
## 68	-2.949627e-02	0.232862266	8.333036e-01	1.131363776	-2.125582e-02
## 69	-9.214220e-02	0.572610091	8.653519e-01	0.968799781	-4.689882e-02
## 70	-1.250325e-01	0.559700509	4.889430e-01	0.398025788	-6.166803e-02
## 71	-1.200021e-01	0.390890684	6.971991e-01	0.808991143	-6.088749e-02
## 72	5.119008e-02	0.376359685	5.173513e-01	1.233191823	-7.331873e-02
## 73	-2.061798e-02	0.310510174	-3.310281e-01	0.200582034	-1.557049e-01
## 74	-2.138487e-02	-0.472449074	-4.144139e-01	-0.268537804	-1.170677e-02
## 75	-1.395518e-02	-0.276505950	-2.218542e-01	0.320824809	-7.739811e-03
## 76	-2.020823e-02	-0.289559909	-4.345288e-01	-0.084764740	-1.554115e-02
## 77	-2.051009e-01	-0.277909364	1.472973e-01	1.100509758	-1.321004e-02
## 78	-8.914536e-03	0.114413684	3.391307e+00	2.760911654	1.995049e-02
## 79	-5.949615e-02	2.426134008	2.568902e+00	3.911300401	-5.091257e-02
## 80	4.177307e-02	1.600168809	2.125105e+00	3.115166849	3.696358e-02
## 81	-6.080080e-02	1.337110475	8.918969e-01	1.511546814	1.344164e-01
## 82	-1.838322e-02	0.432376045	1.056429e+00	2.899362925	1.335796e-01
## 83	-2.483715e+00	0.371307504	-2.763239e+00	-1.483131875	8.363812e-02
## 84	3.219201e-01	-1.647891301	-2.408543e+00	-3.066395264	-1.514508e+00
## 85	-4.453000e-01	-2.305314485	-2.471602e+00	-3.770765744	-7.822909e-02
## 86	-2.683239e-01	-1.973539510	-1.387366e+00	-1.936307373	-2.907075e-01
## 87	-2.778866e-01	-1.243662244	-1.761063e+00	-3.944494814	-2.717653e-01
## 88	2.033983e+00	-1.348453784	-9.453274e-01	-1.187419181	-1.919499e-01
## 89	-6.776291e-01	-1.407581667	-8.297640e-01	-0.714547738	1.342471e+00
## 90	1.925404e-02	-0.293961528	-3.514802e-01	0.361519360	-1.746448e-01
## 91	-3.957118e-02	-0.363861252	-2.096133e-01	-0.085579677	-4.930804e-02
## 92	-5.204894e-02	-0.184877923	-4.032164e-01	-0.481480306	-5.238735e-02
## 93	-3.068856e-02	-0.360173420	-6.087155e-01	-0.890616260	-4.225490e-02
## 94	-4.455459e-04	-0.531781084	-8.133169e-01	-1.104788797	-2.506931e-02
## 95	3.387997e-02	-0.705010166	-8.213572e-01	-1.323986661	-5.545744e-03
## 96	6.052785e-02	14.106053331	1.358134e+01	12.260903591	1.561367e-02
## 97	-1.626087e-01	-0.502870741	3.617671e-02	-0.600626364	-1.065422e-01
## 98	-1.808415e-01	-0.144683754	7.271383e-02	-0.188373272	-9.691947e-02
## 99	-1.837191e-01	0.244918075	4.877839e-01	0.215703588	-9.056847e-02
## 100	-1.947616e-01	0.437762739	5.097317e-01	0.629831102	-8.889343e-02
## 101	-2.029266e-01	-14.358994425	-1.408339e+01	-12.960118243	-9.356939e-02
## 102	5.045299e-02	0.078321983	-5.428327e-01	-0.512760826	4.577202e-02
## 103	-1.903949e+00	0.338129161	2.310988e-01	1.264890406	5.968593e-02
## 104	5.154876e-01	14.662685888	1.447315e+01	13.752192711	-1.356298e+00
## 105	-2.402436e-01	14.275538002	1.431781e+01	13.687871146	-1.319914e-01

```

## 106 -5.109011e-01 14.411895673 1.457931e+01 13.844624355 -2.791273e-01
## 107 -7.767584e-01 0.953562594 1.245152e+00 2.201366309 -4.215481e-01
## 108 1.196594e+00 0.342499098 4.424589e-01 0.016476057 -4.427075e-01
## 109 -1.219247e+00 -14.164728790 -1.380689e+01 -12.669889037 9.693027e-01
## 110 -4.675988e-01 -13.775959487 -1.364811e+01 -12.600542144 -2.573419e-01
## 111 -2.010238e-01 -13.910695740 -1.350617e+01 -12.352270026 -1.125440e-01
## 112 2.763049e-02 -0.289531750 -1.489012e-01 -0.285737256 1.670417e-02
## 113 1.995285e-02 -0.305239171 6.183233e-02 0.718350860 1.834001e-02
## 114 -2.348554e-02 0.038421154 2.650553e-01 0.931608696 -4.302072e-03
## 115 -5.852867e-02 0.204719568 6.532010e-02 0.745792489 -2.620282e-02
## 116 -6.453377e-02 0.011429907 -1.506478e-01 0.346752211 -3.960695e-02
## 117 -6.165625e-02 -0.178171922 -5.657178e-01 -0.057324649 -4.595795e-02
## 118 -3.813596e-02 -0.349999916 -7.940625e-01 -1.475551534 -4.455368e-02
## 119 1.826756e-02 -0.691593826 -1.199827e+00 -2.098871281 -2.012520e+00
## 120 -3.974375e-01 -1.554626879 -1.024977e+00 -1.353327712 -5.996537e-01
## 121 -4.171056e-01 -1.010301229 -1.203991e+00 -1.751102764 -5.947854e-01
## 122 -3.779799e-01 -0.978221061 -6.076946e-01 -0.770311884 -5.705466e-01
## 123 -3.981353e-01 -0.614945153 -5.905642e-01 0.237875603 -5.719901e-01
## 124 -4.173358e-01 -0.636182154 -2.079105e-01 1.237920626 1.409149e+00
## 125 1.016569e-03 0.211368145 1.982507e-01 2.077323587 -6.133912e-03
## 126 -2.050350e+00 0.166827730 1.660991e-01 1.687475541 -5.324629e-02
## 127 3.594865e-01 0.680765957 1.994814e-01 0.774800358 -1.478661e+00
## 128 -1.102319e-01 -0.211324758 -3.883139e-02 0.345549351 -1.104898e-01
## 129 -1.315923e-01 -0.236029261 -3.333222e-02 -0.845314695 -1.206222e-01
## 130 -1.241520e-01 -0.228878264 -4.018136e-01 -1.636246274 -1.024637e-01
## 131 1.926009e+00 -0.372318260 1.870674e-02 -0.245449762 -6.404034e-02
## 132 -5.450306e-01 -0.549971826 -4.132481e-01 -0.709443576 1.324626e+00
## 133 -5.443909e-02 -0.014226351 1.570960e-02 -0.083365985 -3.972455e-02
## 134 -5.372148e-02 0.192704317 2.348500e-02 0.921648087 -3.734737e-02
## 135 -6.452670e-02 0.194105406 2.031806e-01 0.722619065 -5.546667e-02
## 136 -8.229195e-02 0.186729741 -3.986150e-01 -1.067307770 -6.957294e-02
## 137 -2.157569e-02 -0.530604662 -1.003898e+00 -1.084676233 -3.913639e-02
## 138 2.450997e-02 -0.889747741 -8.261108e-01 -1.312987539 -1.891068e-02
## 139 3.868009e-02 -0.899700916 -1.017021e+00 -1.323997917 -8.305862e-04
## 140 6.461035e-02 -0.895568087 -1.022103e+00 -1.544121737 1.795164e-02
## 141 9.534074e-02 -0.886126008 -4.228482e-01 1.035743188 4.144903e-02
## 142 2.838913e-02 -0.187962191 3.625477e-01 1.443094763 1.542963e-03
## 143 -4.529227e-02 0.327305798 1.370372e+00 3.870525136 -3.828471e-02
## 144 -1.979426e-01 1.371482783 2.177828e+00 5.931359677 -1.289670e-01
## 145 -3.707681e-01 1.832323282 2.360226e+00 7.004164318 -2.511335e-01
## 146 -5.419210e-01 1.915581540 2.915923e+00 9.273840565 -3.883400e-01
## 147 -2.988678e+00 2.319196708 4.600377e-01 0.566881582 -5.764404e-01
## 148 -1.489126e-01 0.591147092 3.082497e-01 0.862682835 -2.065916e+00
## 149 -6.616207e-01 -0.341054260 -9.596356e-01 -2.603672832 -5.535083e-01
## 150 -5.466608e-01 -1.003450077 -1.547837e+00 -5.035270110 -4.823103e-01
## 151 -3.887301e-01 -1.643943568 -3.300930e+00 -9.677945299 -3.647414e-01
## 152 2.335534e+00 -2.919616962 -1.056244e+00 -1.786502866 -1.447218e-01
## 153 -5.033134e-01 -1.388171937 -1.726182e+00 -4.134201817 1.319612e+00
## 154 9.287716e-02 -1.164155334 -8.869507e-01 -2.152210803 2.894417e-02
## 155 1.171172e-01 -0.776323638 -1.258119e+00 -1.364778891 6.443456e-02
## 156 1.706325e-01 -0.939523593 -2.877715e-01 -0.203727585 8.862722e-02
## 157 -7.593132e-02 -0.226025737 -6.661853e-01 -0.392942160 7.793893e-02
## 158 8.964637e-04 -0.540193924 -1.248509e+00 -1.569072824 1.469141e-01
## 159 1.168499e-01 -1.022281944 -1.234536e+00 -1.764412607 4.012802e-02

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## 162	1.771255e-01	-0.444765803	-2.054698e-01	-0.407516904	1.084746e-01
## 163	1.569701e-01	-0.081489895	4.116607e-01	1.400670583	1.070311e-01
## 164	8.328869e-02	0.433778094	4.194850e-01	1.428100956	6.720343e-02
## 165	4.704058e-02	0.412096097	4.081186e-01	1.243233215	3.661371e-02
## 166	1.559258e-02	0.195723350	2.010887e-01	1.458354219	1.073914e-02
## 167	-2.021373e+00	0.167110685	-2.180531e-01	0.068472407	-2.222776e-02
## 168	4.503841e-01	0.351694919	-3.783229e-01	-0.462519707	-1.408517e+00
## 169	1.979133e-02	-0.708315627	-4.203393e-01	-0.110979833	-1.610700e-02
## 170	-5.881801e-03	-0.357279638	-1.532084e-02	0.292204838	-2.464281e-02
## 171	-3.971995e-02	-0.003000813	-8.034247e-01	-1.694559837	-3.785457e-02
## 172	2.046439e+00	-0.697252131	-2.176460e-01	-0.326089581	5.052413e-03
## 173	-4.377958e-01	-0.702853036	-2.509793e-01	-0.190998096	1.388262e+00
## 174	1.415735e-02	0.181862014	-1.446209e-02	-0.351673924	5.984784e-03
## 175	3.215285e-02	0.015118603	-4.087471e-01	-0.750770479	1.615644e-02
## 176	7.079111e-02	-0.133850972	-1.630658e-02	-0.364017060	3.408336e-02
## 177	6.383108e-02	0.057372275	-3.977977e-01	-0.754914873	3.809638e-02
## 178	1.024693e-01	-0.291597300	-8.053572e-01	-1.768161453	5.602331e-02
## 179	1.636730e-01	-0.627881960	-1.406785e+00	-2.591492455	9.277166e-02
## 180	2.544020e-01	-1.142704953	-1.020589e+00	-2.034010066	1.443284e-01
## 181	2.697771e-01	-0.764677717	-1.199867e+00	-2.045968910	1.710975e-01
## 182	3.218679e-01	-0.930531134	-6.061120e-01	-1.275239940	2.047273e-01
## 183	3.070000e-01	-0.380896233	-3.807891e-01	-0.473026247	2.143108e-01
## 184	2.986047e-01	-0.203534323	-1.778310e-01	-0.473952203	2.135695e-01
## 185	2.909271e-01	-0.019241744	-1.670975e-01	-0.269864088	2.152053e-01
## 186	2.909271e-01	-0.019241744	2.329025e-01	0.130135912	2.152053e-01
## 187	-1.742193e+00	0.141967749	-1.474260e-01	-0.251614691	2.043707e-01
## 188	7.218862e-01	0.510844563	3.030377e-01	0.021481311	-1.180282e+00
## 189	2.416126e-01	-0.007351744	-1.094714e-01	-0.199604720	1.958755e-01
## 190	2.416126e-01	-0.007351744	-1.094714e-01	-0.199604720	1.958755e-01
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## 192	2.258173e+00	0.012043509	-1.193072e-01	-0.208729418	2.012928e-01
## 193	-1.934290e-01	-0.535816633	2.383216e-02	0.114075209	1.589025e+00
## 194	2.371638e-01	0.524193914	4.658486e-01	0.562535335	1.966155e-01
## 195	2.201161e-01	0.523748917	7.182844e-02	0.177622572	1.848864e-01
## 196	2.361890e-01	0.162094428	-1.418632e-01	-0.225539588	1.839919e-01
## 197	2.486668e-01	-0.016888901	4.651740e+00	4.570361041	1.870712e-01
## 198	4.851220e+00	4.317625018	4.487798e+00	4.189353803	5.705611e-02
## 199	3.662156e+00	2.630988449	3.412843e+00	2.898712571	3.485825e+00
## 200	3.665621e+00	2.616391680	3.597133e+00	2.868945763	3.484544e+00
## 201	3.657325e+00	2.787708908	3.395595e+00	2.848292398	3.482561e+00
## 202	3.673268e+00	2.794128811	-1.226512e+00	-1.985573780	3.484360e+00
## 203	-9.251034e-01	-1.548051209	-1.470505e+00	-1.629319278	3.615471e+00
## 204	2.916634e-01	-0.240908735	-3.182981e-02	0.018342333	1.892027e-01
## 205	2.578253e-01	0.113370091	5.800663e-01	0.831577658	1.759910e-01
## 206	1.944617e-01	0.646187248	4.043392e-01	0.663999592	1.479708e-01
## 207	1.850917e-01	0.261449673	-4.144353e-04	0.074998713	1.346059e-01
## 208	-2.011313e+00	0.078778512	-2.077091e-01	-0.324064075	1.306320e-01
## 209	6.979267e-01	0.502441339	6.884407e-01	0.796751464	-1.392794e+00
## 210	1.264250e-01	0.282485470	-5.547547e-01	-0.448170136	1.002429e-01
## 211	1.797009e-01	-0.441999931	8.443359e-03	0.125392980	1.125209e-01
## 212	1.333850e-01	0.091262223	2.673640e-02	0.542727676	9.622986e-02
## 213	2.314902e+00	0.076955890	-1.828345e-01	-0.252213230	7.974641e-02

## 214	-3.693822e-01	-0.704673594	-1.291778e+00	-1.581227511	1.609331e+00
## 215	2.186798e-01	-0.665322472	-2.584186e-01	-0.545430609	1.217115e-01
## 216	1.860467e-01	-0.123063235	-3.489120e-02	0.066856249	1.171887e-01
## 217	1.646863e-01	0.052232261	5.706080e-01	1.075992203	1.070563e-01
## 218	9.652261e-02	0.379740168	7.905443e-01	2.108425392	7.432092e-02
## 219	1.755372e-02	0.708649164	-9.823805e-03	-0.058170441	2.346629e-02
## 220	6.338225e-02	-0.005662733	-4.319727e-01	-0.469542598	3.344557e-02
## 221	9.242028e-02	-0.365250808	-8.482054e-01	-1.282766668	4.194218e-02
## 222	1.392236e-01	-0.717463219	-8.626426e-01	-1.506063903	6.454507e-02
## 223	1.658714e-01	-0.506399722	-8.599493e-01	-2.121173651	8.570447e-02
## 224	2.193974e-01	-0.658391804	-2.506432e-01	-0.140416538	1.240887e-01
## 225	1.771640e-01	-0.126751068	-3.578896e-02	0.271892831	1.101356e-01
## 226	1.510035e-01	0.043235179	1.653736e-01	0.281040041	9.528796e-02
## 227	1.255606e-01	0.220152093	1.743116e-01	1.095201322	8.281753e-02
## 228	-1.906605e+00	0.196848678	-4.049365e-02	0.305308255	5.456578e-02
## 229	5.437919e-01	0.556728409	2.047358e-01	0.383452095	-1.341855e+00
## 230	6.639584e-02	-0.151069727	-2.228435e-01	-0.241710796	2.795121e-02
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## 233	2.144877e+00	-0.661028466	-6.263313e-01	-1.269152425	7.249404e-02
## 234	-2.966369e-01	-1.017220364	-4.706629e-01	-0.552332848	1.475968e+00
## 235	1.469210e-01	0.044856597	-2.311876e-01	-0.313934632	9.294998e-02
## 236	1.593988e-01	-0.134126732	-4.375845e-01	-0.318034003	9.602930e-02
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## 238	1.538810e-01	-0.146366650	1.503035e-01	0.476963181	8.893696e-02
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## 242	1.889242e-01	-0.312665064	-4.499613e-01	-0.737220611	1.108377e-01
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## 244	2.446101e-01	-0.661189643	-2.635007e-01	-0.565554429	1.404937e-01
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## 247	-1.626661e+00	0.230039168	-2.324138e-01	-0.340020991	1.180440e-01
## 248	6.047359e-01	-4.034853361	-4.034033e+00	-2.918743897	-1.124756e+00
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## 251	3.132921e-01	-0.152688203	-8.988797e-01	-1.210919538	1.634259e-01
## 252	2.163691e+00	-0.687571775	-5.206115e-01	-0.633279561	1.820550e-01
## 253	-6.770668e-02	3.577320755	3.281008e+00	1.945443345	1.424855e+00
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## 257	1.870214e-01	0.239036251	1.728206e-01	0.254931171	1.298123e-01
## 258	1.740563e-01	0.236969836	4.975362e+00	5.064993081	1.204212e-01
## 259	4.763645e+00	4.569417341	5.013961e+00	4.894047753	-1.898500e-02
## 260	3.545055e+00	3.061319104	3.951382e+00	3.822593129	3.394975e+00
## 261	3.526672e+00	3.040968089	3.537316e+00	3.407924814	3.377250e+00
## 262	3.541410e+00	2.659407580	3.503577e+00	3.175007103	3.370360e+00
## 263	3.535992e+00	2.641122979	-1.113031e+00	-1.449723122	3.362026e+00
## 264	-1.088540e+00	-1.531070794	-9.558612e-01	-1.084321410	3.478290e+00
## 265	9.102359e-02	0.138902591	-9.407538e-02	-0.213385075	3.884881e-02
## 266	9.941885e-02	-0.038459319	-9.703350e-02	-0.212459119	3.959015e-02
## 267	9.533634e-02	-0.036837901	-9.359468e-02	-0.207433792	3.725217e-02



## 268	9.125384e-02	-0.035216484	-9.015586e-02	-0.002408465	3.491419e-02
## 269	8.237121e-02	-0.038904316	3.089464e-01	1.202628118	2.786106e-02
## 270	-1.778832e+00	0.297380345	-2.896262e-01	0.025959120	-8.887299e-03
## 271	4.554423e-01	0.242885986	9.368445e-02	0.243159353	-1.258039e+00
## 272	1.407584e-02	-0.233578265	-8.581328e-02	0.064203311	-2.845560e-02
## 273	-7.284544e-03	-0.058282769	-8.031411e-02	0.273339265	-3.858805e-02
## 274	-2.096729e-02	-0.067279851	-6.855485e-01	-0.921612897	-5.035635e-02
## 275	1.829431e+00	-0.602163423	9.271969e-02	0.056027080	-3.172728e-02
## 276	-4.350866e-01	-0.376061400	-4.859896e-01	-0.347000617	1.200238e+00
## 277	5.074860e-03	-0.087577560	-3.181231e-01	0.032903892	-3.803355e-02
## 278	7.952381e-03	-0.277179389	6.680681e-02	0.628827032	-4.438455e-02
## 279	-3.956851e-02	0.068102354	2.734686e-01	0.847110196	-6.936461e-02
## 280	-7.869415e-02	0.236022186	7.717222e-02	0.866319316	-9.360334e-02
## 281	-9.358188e-02	0.239044692	2.603066e-01	1.072315621	-1.140606e-01
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## 283	-8.759659e-02	-0.314278041	-1.165914e+00	-2.324861489	-1.306972e-01
## 284	7.445189e-03	-1.004841526	-1.379238e+00	-2.761427816	-8.073711e-02
## 285	7.393632e-02	-1.154767193	-9.724726e-01	-1.590732612	-3.296179e-02
## 286	7.562867e-02	-0.985737039	-9.569854e-01	-1.597643618	-1.796101e-02
## 287	8.979879e-02	-0.795690214	-3.478952e-01	-0.408653995	1.190803e-04
## 288	5.236551e-02	-0.258740228	7.129562e-02	1.003644118	-9.118867e-03
## 289	-4.755620e-03	0.075923015	6.692842e-01	2.421949793	-4.352924e-02
## 290	-1.705803e+00	0.573196839	6.663989e-02	0.259475843	-1.068935e-01
## 291	2.799472e-01	0.272468552	1.547869e-02	-0.161004062	-1.217232e+00
## 292	-9.083395e-02	-0.320009972	-3.200582e-01	-0.701974509	-1.122840e-01
## 293	-8.123371e-02	-0.509391472	-5.113851e-01	-1.101997020	-1.028537e-01
## 294	-6.275085e-02	-0.495085139	-9.018142e-01	-2.307056114	-8.637023e-02
## 295	1.608053e+00	-0.820751299	-6.945684e-01	-1.330409627	-4.019156e-02
## 296	-3.431409e-01	-0.867371169	-8.475279e-01	-1.118150976	1.085736e+00
## 297	5.380074e-02	-0.444878892	-5.131536e-01	-0.786327738	-4.364510e-03
## 298	6.268336e-02	-0.241191059	-3.122558e-01	-0.791364321	2.688627e-03
## 299	7.228360e-02	-0.230572559	-7.035827e-01	-1.191386832	1.211894e-02
## 300	1.150044e-01	-0.581163552	-3.145810e-01	-0.009658740	3.238385e-02
## 301	8.044861e-02	-0.233815395	-3.104603e-01	-0.201437487	1.679490e-02
## 302	7.564849e-02	-0.239124645	-3.147969e-01	0.198573769	1.207974e-02
## 303	6.124813e-02	-0.255052395	-3.278066e-01	-0.201392464	-2.065730e-03
## 304	5.644802e-02	-0.260361646	-3.321432e-01	-0.201381209	-6.780888e-03
## 305	5.164790e-02	-0.265670896	-5.364798e-01	-1.201369953	-1.149605e-02
## 306	8.260852e-02	-0.430347892	-3.333058e-01	-0.810528418	8.066722e-03
## 307	7.973100e-02	-0.240746063	-1.182357e-01	-0.406451558	1.441772e-02
## 308	6.797085e-02	-0.054832066	-1.040634e-01	0.402661885	1.371558e-02
## 309	4.948799e-02	-0.069138399	4.863657e-01	1.207720978	-2.767867e-03
## 310	-2.347579e-02	0.253060258	1.019655e-01	0.840165423	-4.021836e-02
## 311	-3.836352e-02	0.056082765	4.850998e-01	2.446161729	-6.067563e-02
## 312	-1.727650e+00	0.367442593	2.682832e-01	1.274574336	-1.233378e-01
## 313	2.098609e-01	0.605065380	2.160084e-01	0.667363523	-1.261034e+00
## 314	-1.669253e-01	-0.180702805	-5.354964e-01	-0.272647201	-1.694896e-01
## 315	-1.426874e-01	-0.345600130	-1.560657e-01	0.114139985	-1.657082e-01
## 316	-1.640478e-01	-0.170304634	-5.505665e-01	-1.276724061	-1.758406e-01
## 317	1.484191e+00	-0.508655709	-3.494529e-01	-0.089993153	-1.484834e-01
## 318	-4.943687e-01	-0.773269744	-3.128811e-01	0.132361175	9.539079e-01
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## 320	-1.785559e-01	-0.025335973	2.439706e-01	0.906679511	-1.783194e-01
## 321	-2.176815e-01	0.142583859	4.476743e-01	1.325888631	-2.025581e-01

## 322	-2.656898e-01	0.306815859	5.250480e+00	5.550134333	-2.338500e-01
## 323	4.315734e+00	4.642506199	5.295957e+00	5.589239659	-3.779321e-01
## 324	3.084179e+00	3.132341548	3.435920e+00	3.527846946	3.026637e+00
## 325	3.123872e+00	2.592814382	2.989387e+00	1.886730492	3.025905e+00
## 326	3.188053e+00	2.060883210	2.368394e+00	0.639595221	3.055061e+00
## 327	3.278882e+00	1.540015534	-2.449906e+00	-4.222649798	3.105376e+00
## 328	-1.270276e+00	-2.978416074	-2.285074e+00	-3.691589465	3.276468e+00
## 329	-4.509441e-02	-1.102023116	-8.071679e-01	-1.846784512	-1.190178e-01
## 330	-3.788432e-02	-0.720753044	-3.795688e-01	-0.848692702	-9.692464e-02
## 331	-5.323960e-02	-0.352167886	4.189821e-02	-0.040516470	-9.365296e-02
## 332	-8.636014e-02	0.009041607	6.156971e-02	0.577732926	-1.044875e-01
## 333	-1.089255e-01	0.196356692	6.554376e-01	2.387817348	-1.233090e-01
## 334	-2.197495e+00	0.514647188	4.639634e-02	0.621244026	-1.835939e-01
## 335	2.689752e-01	0.512872429	7.793412e-02	0.496225707	-1.580910e+00
## 336	-2.007433e-01	-0.379218285	-3.603786e-01	-0.533025299	-2.127388e-01
## 337	-1.959432e-01	-0.573909035	-9.560421e-01	-1.533036555	-2.080237e-01
## 338	-1.443398e-01	-0.920812196	-1.966143e+00	-4.156345046	-1.807056e-01
## 339	2.003510e+00	-1.770298431	-1.177935e+00	-2.217168331	-9.473850e-02
## 340	-4.576719e-01	-1.582164679	-1.201281e+00	-1.698123806	1.313604e+00
## 341	2.021155e-02	-0.693316800	-7.698457e-01	-0.678923454	-4.989066e-02
## 342	2.357644e-02	-0.501868886	-3.810599e-01	-0.288962853	-4.992986e-02
## 343	6.298565e-03	-0.328194808	2.100048e-02	0.115147774	-5.772434e-02
## 344	-3.162209e-02	0.027705435	-1.636646e-01	-0.266591574	-7.327408e-02
## 345	-2.322683e-02	-0.149656475	-3.666227e-01	-0.465665618	-7.253275e-02
## 346	-1.074907e-02	-0.328639804	-1.730197e-01	-0.469764989	-6.945343e-02
## 347	-2.250922e-02	-0.142725807	-3.588473e-01	-0.660651546	-7.015557e-02
## 348	-5.231340e-03	-0.316399886	-3.609077e-01	-0.264762173	-6.236110e-02
## 349	-1.003146e-02	-0.321709136	-1.652443e-01	-0.064750917	-6.707625e-02
## 350	-3.139185e-02	-0.146413640	4.025492e-02	0.144385037	-7.720871e-02
## 351	-5.683474e-02	-0.169496725	-1.508071e-01	-0.041453682	-8.967914e-02
## 352	-6.571736e-02	-0.173184557	-1.517049e-01	-0.036417099	-9.673227e-02
## 353	-7.459999e-02	-0.176872390	-1.526026e-01	0.168619484	-1.037854e-01
## 354	-1.888283e+00	-0.185869472	-5.578370e-01	-0.626332678	-1.155537e-01
## 355	3.471970e-01	-0.052383420	-3.628950e-01	-0.610080912	-1.356016e+00
## 356	-6.392647e-02	-0.500455335	-7.469942e-01	-1.003209491	-1.092474e-01
## 357	-3.848358e-02	-0.677372250	-5.559322e-01	-0.817370772	-9.677701e-02
## 358	-4.207871e-02	-0.494701089	-9.486375e-01	-1.818307983	-9.280318e-02
## 359	1.814325e+00	-0.836294999	-5.544015e-01	-0.841627730	-6.076999e-02
## 360	-4.081898e-01	-0.967714637	-7.518845e-01	-0.867941406	1.189084e+00
## 361	1.589880e-02	-0.317576307	-1.703264e-01	-0.084874737	-4.829402e-02
## 362	-5.461582e-03	-0.142280811	3.517281e-02	0.324261217	-5.842647e-02
## 363	-3.570459e-02	0.029326853	3.977422e-02	0.938433754	-7.561206e-02
## 364	-6.787020e-02	0.006023438	4.249690e-01	1.548540686	-1.038638e-01
## 365	-1.379565e-01	0.338620267	2.549861e-02	1.176908271	-1.476653e-01
## 366	-1.499667e-01	-0.047959056	-2.064371e-01	0.778827716	-1.744736e-01
## 367	-1.655720e-01	-0.251867217	-4.310781e-01	-0.220190050	-1.973080e-01
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## 372	-7.387531e-02	-0.187266223	-3.909989e-01	-0.650499591	-1.172679e-01
## 373	-5.659743e-02	-0.360940301	-1.930593e-01	-0.254610218	-1.094735e-01
## 374	-7.315769e-02	-0.180335555	-1.832235e-01	-0.245485520	-1.148908e-01
## 375	-7.724020e-02	-0.178714137	-1.797847e-01	-0.240460192	-1.172287e-01

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## 376 -8.132271e-02 -0.177092719 2.365413e-02 0.764565135 -1.195667e-01
## 377 -1.921166e+00 -0.016103555 -1.804176e-01 0.378760183 -1.461826e-01
## 378 2.792706e-01 0.283680911 1.478914e-02 0.009195741 -1.408546e+00
## 379 -1.448180e-01 -0.366457418 -3.667690e-01 -0.373870928 -1.711682e-01
## 380 -1.448180e-01 -0.366457418 -3.667690e-01 -0.173870928 -1.711682e-01
## 381 -1.496181e-01 -0.371766669 -1.171106e+00 -2.373859672 -1.758834e-01
## 382 1.745424e+00 -1.062330154 -7.844291e-01 -1.410425999 -1.259233e-01
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## 414 1.550092e-01 -15.340221308 -1.502981e+01 -14.172990211 8.045587e-03
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## 453 3.416794e+00 3.185297983 -3.598227e-01 -0.390623579 3.154059e+00
## 454 -1.274028e+00 -1.040505382 -8.389203e-01 -1.052828840 3.195029e+00
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## 490 -1.754723e-01 -0.286381164 -2.801149e-01 0.474184895 -2.228426e-01
## 491 -1.987553e-01 0.494003253 5.059776e-01 0.479255244 -2.440412e-01
## 492 -2.191678e-01 0.502110342 5.231717e-01 0.104381880 -2.557311e-01
## 493 -2.299801e-01 0.320835932 3.490389e-01 -0.270513995 -2.579907e-01
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## 500 1.866826e-02 1.109488714 1.100536e+00 1.728885787 -1.273942e+00
## 501 -3.597788e-01 0.536835581 6.163675e-01 1.264319174 -3.421061e-01
## 502 -3.945916e-01 0.729014920 8.205518e-01 0.889479577 -3.679414e-01
## 503 -4.190867e-01 0.538743427 6.411847e-01 -0.080368460 -3.819693e-01
## 504 9.797013e-01 -0.031912483 7.572511e-02 0.344713154 -3.747986e-01
## 505 -7.493852e-01 -0.217480996 -4.153631e-02 -0.579261697 5.872229e-01
## 506 -4.076807e-01 -0.030235102 7.358189e-02 -0.069467140 -3.656553e-01
## 507 -4.110456e-01 -0.021683016 8.479610e-02 -0.059427741 -3.656161e-01
## 508 -4.144105e-01 -0.013130931 9.601032e-02 0.350611658 -3.655769e-01
## 509 -4.273757e-01 -0.015197345 9.855137e-02 1.360673568 -3.749680e-01
## 510 -4.643414e-01 1.356189990 1.479410e+00 0.770791756 -4.079349e-01
## 511 -2.818835e-01 0.992019752 1.127705e+00 0.815974679 -2.101161e-01
## 512 -2.975136e-01 0.611552719 7.564486e-01 1.045517398 -2.154227e-01
## 513 -3.193791e-01 1.011915099 1.165305e+00 0.865043230 -2.301988e-01
## 514 -3.350092e-01 1.031448066 1.194048e+00 2.694585949 -3.550533e-02
## 515 4.654667e+00 2.455548338 2.625447e+00 4.166337447 -2.039256e-02
## 516 3.286761e+00 2.521348180 2.938765e+00 3.480277802 3.047685e+00
## 517 3.275108e+00 3.283892993 3.702270e+00 3.445530689 3.029881e+00
## 518 3.266325e+00 2.874160477 3.296876e+00 3.630839863 3.021587e+00
## 519 3.251307e+00 2.845257376 3.271595e+00 -0.193867850 2.803822e+00
## 520 -1.721017e+00 1.264879472 1.687024e+00 0.739103103 2.812790e+00
## 521 -5.940767e-01 1.372160327 1.560719e+00 1.625006193 1.909834e+00
## 522 -4.873074e-02 2.414959756 2.491884e+00 2.775523868 2.430617e-01
## 523 1.015616e-01 0.227486103 3.253740e-01 0.830813723 4.126287e-01
## 524 9.530852e-02 0.214432144 3.126993e-01 1.025224174 4.048274e-01
## 525 8.425534e-02 -1.603931065 -1.504312e+00 -0.580354119 3.923109e-01
## 526 1.051446e-01 -1.242196285 -1.156609e+00 -0.631149101 -2.003879e+00
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## 528 -6.207650e-01 -0.531005643 -3.484086e-01 0.161937437 -5.363822e-01
## 529 -6.303652e-01 -0.941624143 -7.570817e-01 -0.638040052 -5.458125e-01
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## 531 -6.092351e-01 -0.542800565 -3.665004e-01 0.141847384 -5.317454e-01
## 532 -6.188353e-01 -0.553419065 -3.751736e-01 -0.058130105 -5.411758e-01
## 533 -6.236354e-01 -0.758728315 -5.795101e-01 -0.458118849 -5.458909e-01
## 534 -6.195529e-01 -0.760349733 -5.829490e-01 -0.263144176 -5.435529e-01
## 535 -6.202706e-01 -0.767280401 -5.907244e-01 -0.268158248 -5.459301e-01
## 536 -6.209882e-01 -1.174211069 -9.984998e-01 -1.673172320 -3.483073e-01
## 537 -5.410328e-01 -0.905487766 -7.497853e-01 -1.246185846 -2.595770e-01

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## 540	-3.503799e-01	-0.123066270	-1.246739e-02	-0.140032256	-3.336686e-02
## 541	-3.011549e-01	0.536214954	8.369926e-01	1.307089293	-1.681339e-01
## 542	-3.436455e-01	0.112686872	2.519104e-01	0.936337812	-3.923335e-01
## 543	-4.147182e-01	0.247651401	4.040938e-01	0.704314755	-2.740106e-01
## 544	-4.317659e-01	0.247206405	4.100736e-01	0.319401993	-2.857397e-01
## 545	-2.392133e-01	-0.342620091	-1.752733e-01	-0.065533281	-2.880385e-01
## 546	-2.843734e-01	-1.197406106	-1.220959e+00	-1.313252819	-3.492653e-01
## 547	-2.918432e-01	-0.833973288	-6.858999e-01	-0.990209619	-1.910077e-01
## 548	-2.707308e-01	-0.829033082	-6.881059e-01	-0.805894844	-3.752724e-01
## 549	-3.029259e-01	-0.681752682	-5.363330e-01	-0.463676292	-4.271081e-01
## 550	-5.440035e-01	-0.138160114	1.454211e-02	-0.116421156	-4.859969e-01
## 551	-5.473684e-01	0.070391972	2.257563e-01	0.493618243	-4.859577e-01
## 552	-5.644161e-01	0.469946976	6.317362e-01	1.108705480	-4.976868e-01
## 553	-5.944288e-01	-0.132564435	4.025712e-02	0.333854627	-5.188070e-01
## 554	-6.073940e-01	-0.134630849	4.279818e-02	-0.056083463	-5.281981e-01
## 555	-6.107589e-01	-0.726078764	-5.459876e-01	-0.246044064	-5.281589e-01
## 556	-6.114765e-01	-1.333009432	-1.153763e+00	-1.451058136	-5.305361e-01
## 557	-5.855462e-01	-2.528876603	-2.358845e+00	-3.071181956	-5.117539e-01
## 558	-5.255207e-01	-1.923853781	-1.775887e+00	-1.921480250	-4.695135e-01
## 559	-4.921430e-01	-0.529894456	-3.956221e-01	-0.356668796	-4.484325e-01
## 560	-4.921430e-01	-0.329894456	-1.956221e-01	-0.356668796	-4.484325e-01
## 561	-4.914254e-01	0.277036212	4.121533e-01	0.248345276	-4.460553e-01
## 562	-5.029553e-01	0.888831133	1.030245e+00	1.068435329	-4.506920e-01
## 563	-5.315328e-01	2.500181059	2.654317e+00	2.503612619	-4.670579e-01
## 564	-5.879703e-01	0.729811577	9.102357e-01	1.178981272	-4.974124e-01
## 565	-6.172655e-01	0.734230834	9.265320e-01	1.209144491	-5.161554e-01
## 566	-6.465606e-01	-0.061349908	1.428283e-01	0.439307709	-5.348985e-01
## 567	-6.595258e-01	-0.463416323	-2.546306e-01	0.049369619	-5.442896e-01
## 568	-6.643259e-01	-2.268725573	-2.058967e+00	-2.150619125	-5.490047e-01
## 569	-6.227832e-01	-2.478009084	-2.285580e+00	-2.595858325	-5.232478e-01
## 570	-5.723579e-01	-2.483604762	-2.311295e+00	-2.446134109	-4.904377e-01
## 571	-5.267327e-01	-1.894509691	-1.741347e+00	-1.896398636	-4.623427e-01
## 572	-4.933551e-01	-0.900550366	-7.610817e-01	-0.731587182	-4.412617e-01
## 573	3.514810e+00	3.096206798	3.232041e+00	3.458362163	-4.365858e-01
## 574	2.533321e+00	2.424362786	2.775881e+00	3.194438562	2.292080e+00
## 575	2.509014e+00	2.197463473	2.555955e+00	2.982726422	2.268469e+00
## 576	2.488790e+00	2.168942743	2.532589e+00	2.965988954	2.247197e+00
## 577	2.668566e+00	1.340422012	1.709224e+00	1.949251486	2.425925e+00
## 578	-1.327181e+00	-2.491710598	-2.127562e+00	-1.893210606	2.620348e+00
## 579	-2.936490e-01	-0.006579309	1.257206e-01	-0.234655691	-5.341515e-02
## 580	-2.444418e-01	0.258818542	3.823933e-01	-0.183106803	1.348595e-02
## 581	-1.945169e-01	0.531147061	6.468414e-01	0.073456157	8.276424e-02
## 582	-3.486745e-01	0.605096998	7.147283e-01	0.335044444	-5.029546e-02
## 583	-3.109794e-01	1.076173144	1.182280e+00	1.002256046	-3.896993e-01
## 584	-5.832642e-01	3.640481763	3.769004e+00	3.795314603	-4.642057e-01
## 585	-4.682615e-01	1.875345580	2.041782e+00	2.501433207	-5.125943e-01
## 586	-5.712767e-01	1.230212121	1.629251e+00	1.914626840	-6.105981e-01
## 587	-6.738045e-01	0.966128405	1.220576e+00	1.321857934	-7.022902e-01
## 588	-7.508894e-01	-0.474872226	-1.970368e-01	-0.085072253	-5.815118e-01
## 589	-5.508894e-01	-5.074872226	-4.797037e+00	-4.685072253	-5.815118e-01
## 590	-7.021520e-01	-3.166950852	-2.921816e+00	-3.248374316	-5.889650e-01
## 591	-6.394791e-01	-2.777410784	-2.757847e+00	-2.513726081	-5.491410e-01

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## 592 -5.828114e-01 -2.181160378 -2.009846e+00 -1.778118123 -5.227211e-01
## 593 -5.549515e-01 -1.199440971 -1.041694e+00 -1.018309485 -5.087324e-01
## 594 -5.427040e-01 0.395694775 5.479900e-01 0.766614534 -5.017185e-01
## 595 -5.679166e-01 -0.001507385 3.608475e-01 0.191752425 -5.181235e-01
## 596 -5.919243e-01 -0.410729135 -2.146637e-01 -0.184058150 -5.258396e-01
## 597 -5.960068e-01 -0.409107717 -2.112249e-01 -0.379032823 -5.281776e-01
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## 599 -5.864066e-01 -1.798489217 -1.602552e+00 -1.979055334 -5.187473e-01
## 600 -5.523113e-01 -0.797599224 -8.145115e-01 -0.809229809 -4.952891e-01
## 601 -5.316685e-01 -0.779825388 -6.277861e-01 -1.023379834 -4.875338e-01
## 602 -5.179858e-01 -0.370828306 -2.225517e-01 -0.428427673 -4.757655e-01
## 603 -5.172682e-01 -0.363897638 -2.147763e-01 -0.423413601 -4.733883e-01
## 604 -5.165505e-01 -0.556966970 -4.070009e-01 -0.218399529 -4.710111e-01
## 605 -7.213507e-01 -0.162276220 -1.133750e-02 0.181611726 -4.757263e-01
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## 608 -6.528780e-01 -1.258458438 -1.118322e+00 -0.707850706 -3.697170e-01
## 609 -4.009881e-01 -0.820776596 -6.950644e-01 -0.680209967 -3.085686e-01
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## 619 -5.871535e-01 -0.464525963 -2.733660e-01 -0.435571634 -2.783340e-01
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## 623 -3.237214e-01 0.517312155 6.349124e-01 0.847427713 -1.871653e-01
## 624 -3.448515e-01 0.718488577 8.443310e-01 0.867540277 -2.012324e-01
## 625 -3.652640e-01 0.926595666 1.061525e+00 0.892666913 -2.129223e-01
## 626 -3.849590e-01 0.341633424 4.864946e-01 0.522807621 -2.222350e-01
## 627 -3.972065e-01 -0.253502323 -1.031889e-01 -0.262116397 -2.292489e-01
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## 632 -4.567493e-01 -0.530332715 -3.690975e-01 0.085770493 -3.062894e-01
## 633 -4.622670e-01 -0.942572633 -7.812094e-01 -0.719232323 -3.133817e-01
## 634 -4.500195e-01 -0.547436886 -3.915259e-01 -0.334308304 -1.063678e-01
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## 636 -4.385073e-01 -0.353115181 -2.024050e-01 -0.149971019 -3.000628e-01
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## 641 -2.610727e-01 -0.565800095 -4.085371e-01 -0.539886598 -3.188843e-01
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## 644 -3.521401e-01 -0.511718977 -3.411065e-01 -0.508228123 -2.672989e-01
## 645 -5.439928e-01 -0.308845185 -1.407714e-01 -0.313851439 -2.609548e-01

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## 646	4.505232e+00	4.550436039	4.708689e+00	4.533270110	-1.957218e-01
## 647	3.327472e+00	5.078980937	5.498528e+00	5.308011080	3.282730e+00
## 648	3.325654e+00	3.530882488	3.961432e+00	4.180666932	3.311534e+00
## 649	3.346896e+00	3.759194196	4.188152e+00	4.213142677	3.149612e+00
## 650	3.320348e+00	3.742086017	4.180963e+00	4.408525017	3.127211e+00
## 651	-1.511000e+00	-1.280331413	-8.305634e-01	-0.796081388	3.100094e+00
## 652	-3.516413e-01	-2.423110699	-2.227257e+00	-1.981063333	-3.944145e-01
## 653	-3.607766e-01	-1.899420143	-1.711668e+00	-1.679024887	-4.369767e-01
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## 656	-6.335843e-01	-0.874238118	-6.847580e-01	-0.487535263	-5.808330e-01
## 657	-6.343019e-01	0.318831214	5.074666e-01	0.507450665	-5.832101e-01
## 658	-6.547145e-01	0.126938304	3.246607e-01	0.132577301	-5.949000e-01
## 659	-6.662444e-01	-0.061266774	1.427526e-01	0.152667354	-5.995368e-01
## 660	-6.784919e-01	-0.256402521	-4.693099e-02	-0.032256664	-4.065507e-01
## 661	-6.381495e-01	-0.400809129	-1.983688e-01	-0.180098532	-3.483709e-01
## 662	-5.937247e-01	-0.946837156	-7.532454e-01	-0.932965727	-2.878532e-01
## 663	-5.322522e-01	-0.892420186	-7.141019e-01	-0.500920160	-2.156063e-01
## 664	-4.803799e-01	-0.648621716	-4.836315e-01	-0.268852081	4.721025e-02
## 665	-1.840828e-01	-0.550851273	-4.080378e-01	-0.189651198	-2.945542e-02
## 666	-1.814532e-01	-0.360217399	-2.198147e-01	-0.200277329	-3.020362e-02
## 667	-1.781060e-01	-0.362652858	-2.238162e-01	-0.205889389	-2.857465e-02
## 668	-1.747588e-01	0.034911684	1.721823e-01	-0.011501449	-2.694567e-02
## 669	-1.747765e-01	0.241028311	3.793951e-01	0.592925890	-2.252775e-01
## 670	-4.369844e-01	0.185797301	3.396889e-01	0.360293590	-2.982334e-01
## 671	-4.492319e-01	0.990661554	1.150005e+00	0.975369572	-3.052473e-01
## 672	-4.730093e-01	0.807320730	9.784136e-01	1.010535607	-5.168980e-01
## 673	-5.460117e-01	0.564698681	7.573620e-01	0.598580092	-3.937816e-01
## 674	-5.616241e-01	-1.021884979	-8.211074e-01	-0.976304527	-4.007564e-01
## 675	-5.445765e-01	-0.421439983	-2.270872e-01	-0.391391764	-3.890273e-01
## 676	-5.397764e-01	-1.416130732	-1.222751e+00	-1.191403020	-3.843121e-01
## 677	-5.193638e-01	-1.624237822	-1.439945e+00	-1.016529656	-3.726222e-01
## 678	-5.044690e-01	-1.444584830	-1.269251e+00	-0.646659108	-3.680247e-01
## 679	-4.984569e-01	1.531380331	1.700545e+00	1.728248023	-3.704802e-01
## 680	-5.392819e-01	0.547594509	7.349335e-01	0.778501295	-3.938600e-01
## 681	-5.596944e-01	0.155701599	3.521276e-01	0.603627931	-4.055499e-01
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## 683	-5.275171e-01	-0.385462174	-1.924325e-01	-0.534163283	-3.520461e-01
## 684	-5.179169e-01	-1.174843674	-9.837594e-01	-1.134185794	-3.426158e-01
## 685	-4.967867e-01	-1.776020095	-1.593178e+00	-1.354298359	-3.285487e-01
## 686	-4.730093e-01	-1.392679270	-1.221586e+00	-1.189464393	-3.168980e-01
## 687	-4.525968e-01	-0.200786360	-3.878046e-02	-0.414591030	-3.052081e-01
## 688	-4.470790e-01	0.811453558	9.733315e-01	0.990411787	-2.981158e-01
## 689	-4.715741e-01	0.621182066	7.939644e-01	0.820563750	-3.121436e-01
## 690	-4.919866e-01	0.429289155	6.111585e-01	0.445690386	-3.238335e-01
## 691	-5.035165e-01	0.841084077	1.029250e+00	1.465780439	-5.284703e-01
## 692	1.813881e+00	2.587843528	-4.744687e-04	-0.146152564	-4.147842e-01
## 693	8.473648e-01	0.631575424	-1.430489e+00	-1.771164137	1.095982e+00
## 694	-4.788704e-01	-1.469721632	-2.448746e+00	-2.593549925	6.835917e-01
## 695	-6.610782e-01	-0.650315280	-1.003320e+00	-1.356921629	-4.421321e-01
## 696	-5.654703e-01	-0.554384258	-1.303756e+00	-2.067456349	-7.086516e-01
## 697	-2.724156e+00	-2.513745341	-6.985584e-01	-0.480477931	-8.806177e-01
## 698	-1.633047e+00	-1.417709547	-1.607055e-01	0.057732004	-2.312566e+00
## 699	1.442259e+00	1.819743319	-4.803023e-02	-0.032408470	-1.805661e+00



## 700	1.756711e+00	1.899450246	-8.462523e-01	-0.830026407	5.665365e-01
## 701	1.519899e+00	1.279253234	-9.898548e-01	-1.166812397	1.313466e+00
## 702	3.721590e+00	3.498458997	-1.045985e+00	-1.223929906	1.225960e+00
## 703	3.147949e+00	3.127620775	2.335370e+00	2.358656022	2.694124e+00
## 704	1.801219e+00	1.375629150	2.423718e+00	2.444360395	2.397159e+00
## 705	1.961296e+00	1.913288470	2.606072e+00	2.816780914	1.375356e+00
## 706	2.018537e+00	2.140613247	2.669668e+00	2.877136906	1.320423e+00
## 707	5.557388e-02	0.155185352	2.674784e+00	2.881574618	1.410423e+00
## 708	1.043526e+01	11.326032099	-8.096687e-01	-1.005510015	8.660471e-02
## 709	1.150229e+01	12.586077610	-3.539145e+00	-3.513240244	7.361658e+00
## 710	3.626006e+00	3.692707425	-4.830521e+00	-4.751223046	9.484802e+00
## 711	6.781110e-01	1.372106837	-3.354129e+00	-3.240818256	3.848788e+00
## 712	6.002878e-01	1.606588512	-2.235043e+00	-2.108015735	1.489726e-01
## 713	-8.745980e+00	-8.714992746	-1.883256e+00	-1.553482118	-8.378365e-01
## 714	-9.530231e+00	-9.692492040	7.043715e-01	0.814114877	-7.693669e+00
## 715	-2.691007e+00	-1.827062656	1.874786e+00	1.934649060	-9.525321e+00
## 716	-1.197479e-01	0.339144956	6.212173e-01	0.450105148	-4.581365e+00
## 717	-3.457718e-01	-0.383848523	-3.292807e-01	-0.516027784	-1.305650e+00
## 718	-3.959863e-01	0.338691278	-5.269700e-01	-0.722477056	-6.182932e-01
## 719	-1.986435e+00	-0.826718801	-5.939073e-01	-0.786605334	-4.624876e-01
## 720	-1.041962e+00	-0.427590239	-2.152898e-01	-0.202273608	-1.572488e+00
## 721	-6.258284e-01	-0.016933414	-3.115436e-01	-0.097949059	-1.173730e+00
## 722	-7.670200e-01	-0.155842202	-4.433294e-01	-0.222747548	-7.655617e-01
## 723	-1.162690e+00	-1.537699322	-4.500614e-01	-0.421223603	-7.688265e-01
## 724	4.941706e-02	-0.751791863	-3.163061e-01	-0.295576242	-1.066478e+00
## 725	-6.565411e-01	-0.915234915	-5.656242e-01	-0.756858544	-2.448841e-01
## 726	-7.638569e-01	-1.228676683	-4.755230e-01	-0.674167533	-5.159077e-01
## 727	-7.479826e-01	-0.834066891	-4.103111e-01	-0.619773198	-6.575748e-01
## 728	-1.155660e+00	-0.849774312	-3.995776e-01	-0.415685082	-6.559389e-01
## 729	2.322182e+00	2.838781045	-3.018085e-01	-0.316146636	-9.365647e-01
## 730	-4.011334e-02	0.269573132	-1.179217e+00	-0.985843961	1.471670e+00
## 731	-5.009197e-01	-0.332077169	-8.771795e-01	-0.669233365	2.639862e-01
## 732	-4.473580e-01	-0.257052428	-6.834916e-01	-0.668396153	-4.217419e-01
## 733	-5.988506e-01	-0.404701872	-6.418070e-01	-0.626288675	-5.588862e-01
## 734	-4.166168e+00	-4.170932529	-5.897240e-01	-0.574469767	-7.007387e-01
## 735	-1.606187e+00	-1.602682241	3.645654e-01	0.172081388	-3.261872e+00
## 736	-4.136302e-02	-0.309126134	5.203900e-02	-0.157502392	-1.931168e+00
## 737	-1.163450e+00	-1.084543913	-4.101577e-01	-0.231920020	-4.146085e-01
## 738	-6.385526e-01	-0.751382709	-2.790421e-01	-0.095874901	-8.354647e-01
## 739	-9.370203e-01	-0.663828529	-3.707494e-01	-0.185690660	-5.642624e-01
## 740	3.191647e-01	0.404229448	-3.397983e-01	-0.147671298	-7.030425e-01
## 741	-1.681730e+00	-1.003695860	-6.566329e-01	-0.458573494	1.433576e-01
## 742	-4.600053e-01	-0.530543733	-2.738038e-01	-0.262758761	-1.100543e+00
## 743	-6.506876e-01	-0.542381415	-4.445436e-01	-0.436800731	-5.503367e-01
## 744	-6.348626e-01	-0.523800202	-4.549421e-01	-0.446512162	-5.456284e-01
## 745	-1.619038e+00	-1.705218989	-4.653405e-01	-0.456223593	-5.409201e-01
## 746	-6.522783e-01	-0.938807733	-2.089270e-01	-0.202741110	-1.248554e+00
## 747	-8.712634e-01	-1.190243298	-3.628714e-01	-0.362972278	-7.061355e-01
## 748	2.703781e+00	2.967723359	-3.500775e-01	-0.354773536	-7.122941e-01
## 749	-1.672025e+00	-1.819108142	-1.293968e+00	-1.291613260	1.844131e+00
## 750	-7.786875e-01	-0.464045468	-4.851662e-01	-0.477760385	-7.693974e-01
## 751	-7.820346e-01	-0.461610009	-4.811647e-01	-0.472148325	-7.710264e-01
## 752	-7.853818e-01	-0.259174551	-4.771633e-01	-0.466536265	-7.726554e-01
## 753	-4.176251e+00	-4.435722421	-4.795587e-01	-0.465023577	-7.712050e-01

## 754	-6.143042e-02	0.277741853	4.290446e-01	0.433808041	-3.193565e+00
## 755	-9.220854e-01	-0.843551478	-3.276746e-01	-0.328225925	-7.218893e-01
## 756	-7.220854e-01	-0.643551478	-3.276746e-01	-0.328225925	-7.218893e-01
## 757	-5.547678e-01	-0.477320821	-3.797576e-01	-0.380044834	-5.800368e-01
## 758	-5.716253e-01	-0.092508951	-4.422390e-01	-0.441575173	-4.334760e-01
## 759	4.849801e-01	0.586686817	-4.758298e-01	-0.469196777	-4.179008e-01
## 760	-6.467821e-01	-0.344997472	-7.570416e-01	-0.747714182	3.007785e-01
## 761	-1.601176e-01	-0.025065597	-5.758126e-01	-0.560699028	-3.724468e-01
## 762	8.388498e-01	0.778327486	-6.486924e-01	-0.631940798	-2.211777e-01
## 763	-8.956525e-02	-0.355792262	-7.339058e-01	-0.916070262	4.991305e-01
## 764	-1.668952e+00	-1.728184534	-5.817950e-01	-0.769173891	-2.374741e-01
## 765	-5.842553e-01	-0.437388827	-1.757570e-01	-0.370544102	-1.361951e+00
## 766	-1.205870e+00	-0.879458265	-5.179245e-01	-0.520149138	-8.187844e-01
## 767	-2.143852e+00	-1.809484121	-4.097571e-01	-0.410899261	-1.104118e+00
## 768	-6.154371e-01	-0.475364374	-1.245437e-01	-0.126769797	-1.824427e+00
## 769	3.229186e+00	4.339600524	-4.059373e-01	-0.411810709	-6.691252e-01
## 770	-5.620735e-01	-0.030702978	-1.079582e+00	-1.268685735	2.183322e+00
## 771	6.739794e-01	0.889782850	-6.430083e-01	-0.823772420	7.886493e-03
## 772	4.601542e-01	1.082483012	-7.745957e-01	-0.957142518	3.097226e-01
## 773	-1.990184e-01	0.455686971	-9.835248e-01	-0.962677495	2.015763e-01
## 774	-3.164208e+00	-3.674296251	-8.399788e-01	-0.812157758	-3.361338e-01
## 775	7.246244e-01	0.600527763	-3.914615e-01	-0.176369168	-2.613383e+00
## 776	-6.649862e-01	-0.460821344	-7.321103e-01	-0.721658547	-2.725538e-01
## 777	-5.352890e-01	-0.522350889	-5.966581e-01	-0.585624683	-6.886948e-01
## 778	-9.635917e-01	-0.561948773	-5.798628e-01	-0.571813881	-6.964824e-01
## 779	-9.015741e-01	-0.491974629	-4.716953e-01	-0.462564004	-9.818165e-01
## 780	-3.365711e-01	0.073298404	-4.468969e-01	-0.437529083	-9.928620e-01
## 781	-2.696155e-01	0.137263408	-5.783476e-01	-0.567950886	-5.783500e-01
## 782	5.101798e-01	0.724510736	-6.368275e-01	-0.623869166	-4.334181e-01
## 783	5.952751e-01	0.808014578	-6.555579e-01	-0.640856231	1.387003e-01
## 784	2.251571e-01	-0.552243955	-5.497973e-01	-0.532107596	2.986770e-01
## 785	-3.100377e-01	-1.317091855	-4.563657e-01	-0.247992112	4.169905e-01
## 786	-1.644631e-01	-1.206957649	1.953752e-01	0.395690724	1.019520e-01
## 787	-9.975312e-01	-1.892665616	-4.582660e-01	-0.268699476	-2.124885e-01
## 788	-7.181654e-01	-1.849399639	-4.326844e-01	-0.250627161	-5.953021e-01
## 789	-4.129217e-01	-0.398576089	2.123217e-01	0.384278485	-2.224924e-01
## 790	-2.508424e-01	-0.442675846	4.276567e-01	0.402539138	1.619578e-01
## 791	-2.486686e-01	0.149053491	5.894847e+00	5.866408650	5.810191e+00
## 792	7.020177e-01	0.945976560	3.175580e+00	3.143356277	3.481356e+00
## 793	2.178443e-01	0.482172164	2.822467e+00	2.790635058	3.006089e+00
## 794	2.881049e-01	0.569273376	1.429921e+00	1.398153292	1.870803e+00
## 795	1.520314e-01	0.445896765	1.067459e+00	1.038508329	1.339574e+00
## 796	1.362386e-01	-0.161971663	-4.587644e+00	-4.613889556	-3.911240e+00
## 797	-9.144917e-01	-0.850937457	-1.182757e+00	-1.204275297	-1.253857e+00
## 798	-4.863755e-01	-0.430224978	-1.027147e+00	-1.047791082	-1.142213e+00
## 799	-4.924125e-01	-0.644909924	-7.247454e-01	-0.544299242	-2.901337e-01
## 800	-5.070463e-01	-0.463772559	-7.927515e-01	-0.808496722	-5.431140e-01
## 801	-5.529096e-01	-0.308659829	-9.045025e-01	-0.918912307	-8.511556e-01
## 802	-3.480249e-02	0.015119017	9.356649e-01	0.924465259	9.810263e-01
## 803	9.225062e-02	0.146126185	5.411835e-01	0.528807230	6.100711e-01
## 804	1.234624e-01	-0.021732553	7.921412e-01	0.579452673	6.668006e-01
## 805	1.304363e-01	0.375306034	4.636681e-01	0.443310930	5.197486e-01
## 806	1.421787e-01	-0.004491335	2.567085e-01	0.238624827	1.221189e-01
## 807	-5.514888e-01	-0.511627905	-2.030662e+00	-2.051202188	-2.001964e+00

## 808	-6.375422e-01	-0.806597545	-1.493220e+00	-1.511118306	-1.517492e+00
## 809	-8.090201e-01	-0.591576687	-1.543862e+00	-1.562593082	-1.607054e+00
## 810	-7.235955e-01	-0.901567184	-3.557773e-01	-0.371034424	-4.330199e-01
## 811	-6.721790e-01	-0.656673251	-4.633969e-02	-0.064470701	-3.212223e-01
## 812	-4.248451e-01	-0.610157900	4.665367e-01	0.447118349	-1.176264e-02
## 813	-2.072845e-01	-0.204868514	2.395083e+00	2.371344736	1.888491e+00
## 814	-3.224046e-01	-0.315734079	7.288325e-01	0.700742427	6.506234e-01
## 815	-4.265633e-01	-0.216868172	-1.166065e-01	-0.145561045	-1.770613e-01
## 816	-4.452973e-01	-0.227992762	-3.739611e-01	-0.400305860	1.692886e-01
## 817	-5.504563e-01	-0.315020988	-1.577823e-01	-0.179960418	2.467673e-01
## 818	-6.394932e-01	-0.387675124	-1.879685e+00	-1.898671369	-1.623024e+00
## 819	-4.318789e-01	-0.175508194	-5.487165e-02	-0.068760472	-2.144695e-01
## 820	-4.352261e-01	-0.373072735	-5.087015e-02	-0.063148412	-2.160985e-01
## 821	-4.510510e-01	-0.591653948	-4.047172e-02	-0.053436981	-6.208068e-01
## 822	-3.763685e-01	-0.535952943	-7.070455e-01	-0.723841134	-1.154306e+00
## 823	-7.817023e-01	-0.760536633	-1.338579e+00	-1.357653245	-1.255412e+00
## 824	-4.602480e-01	-0.639193246	-3.024127e-01	-0.319887739	-2.216012e-01
## 825	-6.249538e-01	-0.408673402	-4.548939e-01	-0.474267623	-3.625337e-01
## 826	-5.639686e-01	-0.335306175	-8.196063e-01	-0.836259517	-6.965987e-01
## 827	-5.668777e-01	-0.327849552	-6.873593e-01	-0.700715762	-3.455405e-01
## 828	-8.933231e-02	-0.035087072	1.380926e-01	0.128167646	-7.418814e-02
## 829	-5.073632e-01	-0.456110407	-4.531970e-01	-0.463881121	-8.810234e-01
## 830	-4.043780e-01	-0.560811518	2.634339e-01	0.251903924	-2.067349e-01
## 831	-4.187645e-01	-0.388477434	1.340460e+00	1.324898135	8.360806e-01
## 832	-2.609377e-01	-0.430350168	1.268691e+00	1.249953855	9.691678e-01
## 833	6.902450e-02	-0.106799622	3.141962e+00	3.118752072	2.647154e+00
## 834	1.733737e-01	0.194273444	7.336290e-01	0.703481309	1.263646e+00
## 835	4.862134e-01	0.717555768	2.606600e+00	2.577984833	2.794065e+00
## 836	9.693577e-01	1.019982030	3.601404e+00	3.573444706	3.860652e+00
## 837	1.503183e+00	1.566488184	5.305084e+00	5.274881569	5.238327e+00
## 838	1.298994e+00	1.572255698	1.582433e+00	1.547677624	2.176773e+00
## 839	1.448016e+00	1.532382928	3.601241e+00	3.571045596	3.017663e+00
## 840	1.212251e+00	1.086129136	1.490979e+00	1.457603100	1.452014e+00
## 841	5.907949e-01	0.447171357	-1.002473e+00	-1.037152619	-9.018224e-01
## 842	-4.682070e-01	-0.234405506	-3.516798e+00	-3.549716978	-3.308331e+00
## 843	-4.432227e-01	-0.416888162	-3.096661e-01	-0.334005459	-1.883292e-01
## 844	-2.578742e-01	-0.229634170	2.954045e-02	0.006224399	5.603586e-01
## 845	-1.442992e-01	-0.305537806	3.030738e-01	0.281314656	4.914874e-01
## 846	9.173039e-02	-0.074203921	1.151155e+00	1.127521504	1.351264e+00
## 847	6.228660e-01	0.655181829	1.753235e+00	1.726838148	1.582647e+00
## 848	6.799398e-02	0.299255059	-3.355765e-01	-0.363332999	-5.100207e-01
## 849	-3.277712e-01	-0.296855337	-8.412596e-01	-0.865700728	-1.056989e+00
## 850	-5.352788e-01	-0.513168364	-9.399831e-01	-0.963382352	-1.206329e+00
## 851	-7.108392e-01	-0.696526088	-7.871863e-01	-0.809831801	-1.098229e+00
## 852	-8.225055e-01	-1.213973207	-3.313489e-01	-0.353816897	-4.752528e-01
## 853	-6.147786e-01	-1.222237207	-6.647198e-02	-0.093799246	-4.232639e-01
## 854	-8.687721e-01	-1.104682474	-2.374454e-01	-0.272376434	-6.379192e-01
## 855	-6.970748e-01	-0.944280358	2.379350e+00	2.341434368	2.354293e+00
## 856	-5.445733e+00	-5.284527544	-3.902804e+00	-3.946340497	-4.239230e+00
## 857	-5.334856e+00	-5.562875163	-3.730175e+00	-3.772363594	-3.850819e+00
## 858	-5.400427e+00	-5.430905570	-4.503067e+00	-4.548080472	-4.605710e+00
## 859	-5.180573e+00	-5.208926473	-4.687875e+00	-4.732238692	-4.786567e+00
## 860	-5.625349e+00	-5.453672021	-7.976286e+00	-8.019447997	-8.283010e+00
## 861	-9.519430e-01	-0.989497605	-2.432937e+00	-2.468941148	-2.241950e+00

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## 862 -1.172929e+00 -0.812721435 -2.063646e+00 -2.095874487 -2.289205e+00
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## 864 -1.124972e+00 -0.944961113 4.097291e-01 0.386194542 -2.247047e-02
## 865 -7.366366e-01 -0.744793841 1.228525e-01 0.099199657 -7.946869e-02
## 866 -4.407953e-01 -0.645927934 1.677413e+00 1.652896185 1.292847e+00
## 867 -2.149918e-01 -0.223511481 5.052461e-01 0.475390929 3.431487e-01
## 868 -1.837800e-01 -0.391370220 -4.379629e-02 -0.073963627 -2.001218e-01
## 869 -2.608873e-01 -0.679111536 -7.410027e-01 -0.772915340 -7.187870e-01
## 870 -5.978063e-01 -0.434384875 -9.446885e-01 -0.979356733 -9.499912e-01
## 871 -8.646096e-01 -0.692838857 -2.315482e+00 -2.346277330 -2.313810e+00
## 872 -1.090413e+00 -1.115255310 -1.743315e+00 -1.768772074 -1.564112e+00
## 873 -1.120451e+00 -0.941561367 -1.265464e+00 -1.288899090 -1.267445e+00
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## 875 -7.691460e-01 -0.758622112 -1.388045e-01 -0.155451909 -4.790567e-01
## 876 -7.218120e-01 -0.712106761 1.740719e-01 0.156137141 -1.695971e-01
## 877 -4.425310e-01 -0.432636107 1.138469e+00 1.118958367 5.973010e-01
## 878 -3.166513e-01 -0.107464143 1.215179e+00 1.192781911 1.072950e+00
## 879 -1.132262e-01 -0.289529699 1.317341e+00 1.295488862 1.219951e+00
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## 881 7.566002e-02 0.295227807 1.598774e+00 1.568532426 1.359074e+00
## 882 1.674188e-01 0.195715132 1.567739e-01 0.127254281 1.290514e-01
## 883 3.963041e-02 -0.136106077 3.506926e-01 0.322325578 9.929761e-02
## 884 -8.524894e-02 -0.075383909 -5.876357e-01 -0.618146880 -6.815144e-01
## 885 -2.769316e-01 0.126884277 -9.675761e-02 -0.125539936 -2.614513e-02
## 886 1.326371e-01 0.355357571 1.029092e+00 1.005904447 1.127992e+00
## 887 2.256046e+00 1.293007321 6.566295e+00 6.545203440 6.507386e+00
## 888 3.791828e+00 3.204306221 6.377041e+01 63.732070848 6.357481e+01
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## 890 6.007331e+00 5.282358767 1.236531e+01 12.417237121 1.484105e+01
## 891 5.742841e+00 4.982964251 1.107335e+01 10.921401635 1.293862e+01
## 892 3.178629e+00 3.767864846 5.403636e+00 5.243658314 7.565858e+00
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## 894 -6.642523e+00 -6.333522063 -8.680641e+00 -8.741473163 -9.473938e+00
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## 898 9.655102e-01 1.404822233 8.333601e-01 0.787431505 1.429587e+00
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## 907 1.630949e+00 2.086610991 3.275305e+00 3.460345829 3.745711e+00
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## 932 2.477731e-01 0.389870303 2.190631e-01 0.228153488 4.248746e-01
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## 943 7.567242e-02 0.183646190 -1.592078e+00 -1.593801266 -1.421963e+00
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## 951 -1.667693e-01 -0.078535419 -3.162385e-01 -0.315490323 -4.230541e-01
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## 972	6.791128e-02	-0.021464194	-3.867934e-01	-0.380866301	-1.194013e-01
## 973	3.931136e-02	-0.056854954	-4.423152e-01	-0.437710537	-3.752108e-01
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## 975	-1.468503e-01	-0.265292890	-6.882483e-01	-0.686846139	-8.699798e-01
## 976	-4.724650e-01	-0.405384762	-8.271393e-01	-0.827905330	-8.515007e-01
## 977	-5.044121e-01	-0.438340064	-6.786596e-01	-0.679137506	-9.089392e-01
## 978	-5.529195e-01	-0.490690620	-7.203442e-01	-0.721244984	-9.717950e-01
## 979	3.985731e-01	0.256958825	3.797123e-02	0.036647539	-3.465071e-02
## 980	1.504717e-01	0.198916648	3.900344e-01	0.386581071	5.012865e-01
## 981	2.599320e-01	0.313921646	5.325090e-01	0.528805970	4.761831e-01
## 982	3.208849e-01	0.376576088	8.332989e-01	0.828923392	7.882241e-01
## 983	4.137849e-01	0.472185832	7.856091e-01	0.780272989	7.577034e-01
## 984	-5.252622e-01	-0.265159726	8.639908e-02	0.080390410	-1.302557e-01
## 985	-4.647151e-01	-0.196813663	-4.065588e-01	-0.411533178	-6.170077e-01
## 986	-5.000094e-01	-0.227333506	-4.540776e-01	-0.457153294	-4.760752e-01
## 987	-4.867963e-01	-0.205502795	-6.599119e-01	-0.660665933	-6.722869e-01
## 988	-5.055304e-01	-0.216627385	-7.172664e-01	-0.715410747	-7.259370e-01
## 989	-5.242644e-01	-0.227751975	-7.746210e-01	-0.770155562	-7.795871e-01
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## 993	-1.374775e-01	-0.249582687	4.312132e-01	0.433357077	2.166245e-01
## 994	-3.033566e-01	-0.224898048	-5.007611e-02	-0.051541234	-7.770415e-02
## 995	-2.714095e-01	-0.191942746	-1.985558e-01	-0.200309058	-2.202657e-01
## 996	-4.714095e-01	-0.191942746	-3.985558e-01	-0.400309058	-4.202657e-01
## 997	-4.581964e-01	-0.170112034	-2.043900e-01	-0.203821697	-4.164774e-01
## 998	-4.615436e-01	-0.167676575	-6.003885e-01	-0.598209637	-6.181064e-01
## 999	-2.802776e-01	-0.178801166	3.422569e-01	0.347045548	1.282435e-01
## 1000	-3.294368e-02	-0.132285814	5.513328e-02	0.058634599	3.770313e-02
## 1001	-4.615676e-02	-0.154116526	1.060968e+00	1.062147237	8.339148e-01
## 1002	-9.948142e+00	-10.063521282	-6.917281e+00	-6.920286722	-6.945537e+00
## 1003	-9.477329e+00	-9.583275732	-8.362028e+00	-8.370186991	-8.309737e+00
## 1004	-9.357935e+00	-9.465538506	-9.173499e+00	-9.183641195	-8.905759e+00
## 1005	-9.549769e+00	-9.460227236	-8.800887e+00	-8.811148802	-8.926119e+00
## 1006	-9.529563e+00	-9.238920458	-9.562918e+00	-9.572687474	-9.496086e+00
## 1007	4.238398e-01	0.723932337	-6.957416e-01	-0.701146743	-6.298716e-01
## 1008	3.807407e-01	0.681306590	2.285699e+00	2.284896478	2.113700e+00
## 1009	5.995526e-01	0.912801083	8.492173e-01	0.847960304	9.127222e-01
## 1010	-1.642065e+01	-18.099951588	-1.620926e+01	-16.207957975	-1.574235e+01
## 1011	-1.640612e+01	-17.348976409	-1.107258e+01	-11.088795318	-1.044223e+01
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## 1020	-2.855713e+00	-2.062735269	-2.385140e+00	-2.377986639	-3.010650e+00
## 1021	-2.258215e+00	-2.228403083	-2.139915e+00	-2.125578150	-2.512304e+00
## 1022	-2.127485e+00	-2.293325711	-1.931583e+00	-1.918302516	-2.279714e+00
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## 1024	-2.020866e+00	-1.568384954	-1.469233e+00	-1.456031711	-1.753307e+00
## 1025	-1.632498e+00	-1.357504896	-1.221612e+00	-1.205135911	-1.456411e+00
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## 1032	-5.273094e-01	-0.382629113	3.914343e-01	0.830444755	8.038930e-01
## 1033	-2.779534e-01	-0.121327869	7.254200e-01	1.172603298	1.209494e+00
## 1034	3.714027e-01	0.539973375	6.594056e-01	0.714761842	8.150940e-01
## 1035	-1.959149e-01	-0.026257282	-2.885114e-01	0.766580750	8.732415e-01
## 1036	3.936155e-01	0.579250106	4.489590e-01	0.928289170	9.093420e-01
## 1037	6.339933e-01	0.822610243	4.830957e-01	0.971592624	9.641855e-01
## 1038	1.041689e+00	1.232201037	8.651495e-01	0.763077169	9.608814e-01
## 1039	9.652990e-01	1.151390388	9.757185e-01	0.869139528	8.445934e-01
## 1040	6.723490e-01	0.851184486	6.961233e-01	0.584326584	7.228880e-01
## 1041	6.286418e-01	0.804143181	6.587753e-01	0.542207851	8.647474e-01
## 1042	8.334419e-01	1.009452431	1.263112e+00	0.542196596	8.694626e-01
## 1043	3.702792e-01	0.538734328	6.578824e-01	0.917706760	8.139239e-01
## 1044	9.981615e-01	1.167194421	1.105629e+00	0.769536924	8.673562e-01
## 1045	1.109276e+00	1.271483729	1.429808e+00	0.884125993	9.496570e-01
## 1046	1.007896e+00	1.160872993	1.367596e+00	0.807241772	8.305466e-01
## 1047	9.065151e-01	1.050262256	7.053841e-01	0.730357551	7.114363e-01
## 1048	8.404149e-01	0.981909530	1.000655e+00	0.426133001	5.944324e-01
## 1049	3.555945e-01	0.490694047	5.286080e-01	0.340124081	4.807393e-01
## 1050	3.596593e-01	0.495189257	5.323819e-01	0.339526093	2.847455e-01
## 1051	1.152167e-01	0.247333911	9.447124e-02	0.296820628	2.258959e-01
## 1052	-6.730231e-01	-0.538580086	-3.197011e-01	0.287707185	2.265980e-01
## 1053	9.298705e-02	0.238755295	2.461139e-01	0.467642490	4.612943e-01
## 1054	-6.257037e-02	0.086610641	8.402459e-02	0.510347956	5.201439e-01
## 1055	2.631478e-02	0.182321334	1.598459e-01	0.595758887	6.378431e-01
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## 1057	6.485277e-01	0.821598065	7.493993e-01	0.809286216	9.320911e-01
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## 1059	1.092970e+00	1.269453411	1.187310e+00	0.851991682	9.909407e-01
## 1060	8.040851e-01	0.973742718	1.111489e+00	0.766580750	8.732415e-01
## 1061	1.347882e+00	1.511801369	1.687750e+00	0.732988727	8.136897e-01
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## 1063	5.805816e-01	0.714872596	7.986372e-01	0.400458445	3.421908e-01
## 1064	9.169645e-02	0.219161904	5.228159e-01	0.315047513	2.244916e-01
## 1065	2.799363e-01	0.405075901	3.369882e-01	0.524160956	4.237895e-01
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## 1074	3.679902e-01	0.496401776	6.604284e-01	0.864670680	5.776985e-01
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## 1089	5.752528e-01	0.473990556	1.312132e-01	0.298493397	1.460329e-01
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## 1096	-2.488327e-02	-0.189129025	-1.576740e-01	-0.365206276	-5.728811e-01
## 1097	-1.144860e-01	-0.491770386	-4.412707e-01	-0.255631279	-4.929575e-01
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## 1210 -6.600457e-02 -0.131897898 -2.263731e-01 0.355963351 -8.246830e-03
## 1211 1.714496e-01 -0.097910551 -2.016998e-01 -0.007507465 -1.579076e-01
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## 1213 -3.772440e-01 -0.284099306 -3.329237e-01 -0.147153438 -3.453762e-01
## 1214 -1.335368e-01 -0.237058000 -2.955757e-01 -0.305034705 -4.872356e-01
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## 1220 -4.270974e-01 -0.090165842 -1.933617e-01 -0.801906660 -9.548214e-01
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## 1222 -7.101531e-01 -0.161014328 -2.430434e-01 -0.669341714 -8.618440e-01
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## 1226 -9.880046e-01 -0.176731958 -2.648676e-02 -0.073177926 -2.596329e-01
## 1227 -6.198416e-01 0.021395427 1.626544e-01 -0.478200406 -6.178051e-01
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## 1229 8.390732e-02 -0.077400397 -8.840578e-02 0.253449840 6.971579e-02
## 1230 8.173677e-02 -0.092075774 -1.045193e-01 0.042834965 -1.357476e-01
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## 1234 -1.064632e+00 0.082422555 9.228062e-02 -0.144543348 -3.434084e-01
## 1235 -1.083274e+00 0.308497280 8.280029e-02 -0.548651128 -6.961241e-01
## 1236 -3.761166e-01 0.062320105 1.927897e-01 -0.640509011 -7.613327e-01
## 1237 -2.731030e-01 0.162710240 -5.883318e-02 -0.309445498 -4.745208e-01
## 1238 9.640279e-02 0.137499646 -1.020154e-01 -0.155076870 -3.288731e-01
## 1239 4.192955e-01 0.049758330 -1.992218e-01 0.145971417 -4.753831e-02

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## 1240	5.392823e-01	-0.053472404	-1.131044e-01	0.235818095	2.762409e-02
## 1241	-1.539439e-01	0.021466151	-2.211527e-01	0.329177412	9.899817e-02
## 1242	-8.555046e-01	-0.071179276	-1.611917e-01	0.203714703	1.527249e-02
## 1243	-8.326095e-01	-0.012738622	5.056251e-02	-0.568889219	-6.847660e-01
## 1244	-3.955683e-01	0.044264847	1.276597e-01	-0.500267898	-6.173600e-01
## 1245	-1.048847e+00	-0.008303713	1.133848e-01	-0.127085651	-2.724075e-01
## 1246	-6.792315e-01	0.197568381	3.108641e-01	-0.326507326	-4.274935e-01
## 1247	1.578097e-01	0.254571850	3.879613e-01	-0.457886005	-5.600875e-01
## 1248	-2.294970e-01	0.245389957	2.449663e-01	0.177738433	4.270778e-03
## 1249	-1.843368e-01	0.300175971	2.906524e-01	0.225457971	6.549756e-02
## 1250	6.608233e-01	0.354961985	3.363384e-01	0.073177508	-7.327567e-02
## 1251	2.816355e-01	0.143562637	1.619322e-01	0.287900163	8.490340e-02
## 1252	-3.649776e-01	0.081031914	1.079081e-01	0.434579822	2.205904e-01
## 1253	1.675971e-01	0.229900539	2.282902e-01	-0.033463175	-2.019016e-01
## 1254	-1.212703e-01	0.128073220	1.452561e-01	0.076698555	-1.212690e-01
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## 1256	-4.309500e-01	0.237645248	2.366282e-01	-0.027862371	-1.988154e-01
## 1257	-1.843368e-01	0.300175971	2.906524e-01	-0.174542029	-3.345024e-01
## 1258	-2.265912e-01	0.260879374	2.616425e-01	0.188940042	1.044314e-02
## 1259	-1.814310e-01	0.315665388	3.073285e-01	0.236659579	7.166992e-02
## 1260	-1.362708e-01	0.370451402	3.530146e-01	0.284379117	1.328967e-01
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## 1262	1.540496e-01	0.480023431	4.443867e-01	0.379818191	2.553503e-01
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## 1273	1.365092e+00	0.487178766	4.224390e-01	0.365690677	2.536752e-01
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## 1275	1.109908e+00	-1.097734078	-1.122339e+00	0.015616664	1.081825e+00
## 1276	9.256858e-01	-1.153930838	-1.193000e+00	-0.048140124	1.077336e+00
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## 1280	2.135775e-01	0.418183691	2.738242e-01	0.251912398	4.778113e-01
## 1281	4.587377e-01	0.472969705	3.195103e-01	0.299631935	5.390380e-01
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## 1295	3.841767e-01	0.644634124	4.685730e-01	0.459626726	5.178315e-01
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## 1297	5.323221e-01	0.594719026	4.308899e-01	0.423131309	4.533467e-01
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## 1300	4.420018e-01	0.485146998	3.395178e-01	0.327692234	5.308932e-01
## 1301	4.420018e-01	0.485146998	3.395178e-01	0.327692234	5.308932e-01
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## 1324	6.678027e-01	0.759077069	5.679481e-01	0.566289921	8.370271e-01
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## 1334	6.530963e-01	0.742796257	5.566945e-01	0.554555269	8.228470e-01
## 1335	2.530963e-01	0.742796257	5.566945e-01	0.554555269	8.228470e-01
## 1336	7.434166e-01	0.852368285	6.480667e-01	0.649994343	5.453005e-01
## 1337	6.464019e-01	0.747667174	5.646975e-01	0.565779388	8.195890e-01
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## 1357	7.434166e-01	0.852368285	6.480667e-01	0.649994343	3.453005e-01
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## 1369	6.530963e-01	0.742796257	5.566945e-01	0.554555269	8.228470e-01
## 1370	6.530963e-01	0.742796257	5.566945e-01	0.554555269	6.228470e-01
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## 1374	2.590668e-01	0.533394034	3.899563e-01	0.386125359	3.714240e-01
## 1375	2.557196e-01	0.535829492	3.939577e-01	0.391737419	5.697950e-01
## 1376	3.008798e-01	0.590615507	4.396438e-01	0.439456956	6.310218e-01
## 1377	3.460400e-01	0.645401521	4.853299e-01	0.487176493	4.922485e-01
## 1378	-5.730723e-02	0.647836979	4.893314e-01	0.492788553	4.906196e-01
## 1379	6.296660e-01	0.759844466	5.847050e-01	0.593839687	2.114442e-01
## 1380	4.841438e-01	0.602792799	4.596513e-01	0.467517255	4.228769e-01
## 1381	4.356365e-01	0.550442243	4.179667e-01	0.425409777	3.600211e-01
## 1382	3.871291e-01	0.498091688	3.762821e-01	0.383302300	4.971654e-01
## 1383	7.871291e-01	0.498091688	3.762821e-01	0.383302300	4.971654e-01
## 1384	2.968087e-01	0.388519659	2.849100e-01	0.287863225	7.747118e-01
## 1385	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
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## 1389	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1390	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1391	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1392	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1393	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1394	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1395	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1396	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1397	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1398	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1399	1.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1400	4.389837e-01	0.548006785	4.139652e-01	0.419797718	1.616501e-01
## 1401	3.419689e-01	0.443305674	3.305961e-01	0.335582763	4.359386e-01

## 1402	3.419689e-01	0.443305674	3.305961e-01	0.335582763	4.359386e-01
## 1403	3.419689e-01	0.443305674	3.305961e-01	0.335582763	4.359386e-01
## 1404	5.419689e-01	0.443305674	3.305961e-01	0.335582763	4.359386e-01
## 1405	2.968087e-01	0.388519659	2.849100e-01	0.287863225	7.747118e-01
## 1406	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1407	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1408	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1409	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1410	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1411	3.938235e-01	0.493220771	3.682792e-01	-0.027921820	5.004233e-01
## 1412	4.034237e-01	0.503839271	3.769523e-01	-0.027944331	5.098537e-01
## 1413	4.130239e-01	0.514457771	3.856255e-01	-0.027966842	5.192840e-01
## 1414	4.226242e-01	0.525076272	3.942986e-01	0.372010647	5.287143e-01
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## 1416	4.274243e-01	0.530385522	3.986352e-01	0.771999391	5.334294e-01
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## 1418	4.082238e-01	0.509148521	3.812889e-01	0.772044413	5.145688e-01
## 1419	1.986236e-01	0.498530021	3.726157e-01	0.372066925	5.051385e-01
## 1420	4.437838e-01	0.553316035	4.183018e-01	0.619786462	3.663653e-01
## 1421	3.904763e-01	0.495656229	3.722807e-01	0.377690240	4.987944e-01
## 1422	3.904763e-01	0.495656229	3.722807e-01	0.377690240	4.987944e-01
## 1423	3.904763e-01	0.495656229	3.722807e-01	0.377690240	4.987944e-01
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## 1425	3.453161e-01	0.440870215	3.265946e-01	0.329970703	6.375676e-01
## 1426	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
## 1427	3.938235e-01	0.493220771	3.682792e-01	0.372078180	5.004233e-01
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## 1454	3.986236e-01	0.498530021	3.726157e-01	0.372066925	5.051385e-01
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## 1457	-4.653660e-02	0.443744007	9.269297e-01	0.924347387	4.439117e-01
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## 1459	-1.107796e-01	0.389464876	1.043635e+00	0.843651294	-1.322522e-01
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## 1462	3.413336e-02	0.143182444	2.898075e-01	0.280809277	-3.039767e-01
## 1463	-9.482849e-02	0.005526030	3.549181e-01	0.345362146	1.128733e-01
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## 1477	-1.315442e-01	-0.050593315	3.818843e-01	0.362674331	1.060126e-01
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## 1479	-1.440219e-01	-0.071609987	3.882812e-01	0.366773702	1.029332e-01
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## 1503	-1.065886e-01	-0.008559973	3.690904e-01	0.354475589	1.121712e-01
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## 1509	-1.065886e-01	-0.008559973	3.690904e-01	0.354475589	1.121712e-01

## 1510	-1.065886e-01	-0.008559973	3.690904e-01	0.354475589	1.121712e-01
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## 1515	4.057968e+00	3.926855439	4.052948e+00	4.044334561	3.640760e+00
## 1516	4.027107e+00	3.685487753	4.045278e+00	4.033765618	3.619955e+00
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## 1518	-1.072048e+00	-1.660297635	4.049129e+00	4.024925844	3.569108e+00
## 1519	-3.108038e-01	-0.699465092	3.563281e-01	0.318028356	-4.168165e-03
## 1520	-3.357593e-01	-0.541498434	3.691219e-01	0.326227098	-1.032680e-02
## 1521	-3.482371e-01	-0.362515105	3.755189e-01	0.330326469	-1.340611e-02
## 1522	-3.482371e-01	-0.362515105	3.755189e-01	0.330326469	-1.340611e-02
## 1523	-3.482371e-01	0.037484895	3.755189e-01	0.330326469	-1.340611e-02
## 1524	-3.232815e-01	0.079518237	3.627250e-01	0.322127727	-7.247481e-03
## 1525	-2.983260e-01	0.121551580	3.499311e-01	0.313928985	-1.088849e-03
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## 1531	-1.985039e-01	-0.310315050	2.987557e-01	0.281134015	2.354568e-02
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## 1539	-1.049003e+00	-1.218230645	-1.613459e+00	-1.610267006	-2.048109e+00
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## 1541	-1.254336e+00	-1.242814335	-1.244992e+00	-1.244079117	-1.949216e+00
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## 1548	9.279245e+00	9.333041778	9.213538e+00	9.219103135	9.142198e+00
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## 1550	9.254220e+00	9.303988272	9.198955e+00	9.202537354	8.534153e+00
## 1551	9.120439e+00	9.158585129	9.087452e+00	9.088985769	8.372991e+00
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## 1553	-1.147123e+00	-1.132221155	-1.135555e+00	-1.138117400	-1.549332e+00
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```

## 1564 -1.112829e+00 -1.087595444 -1.226418e+00 -1.225848369 -1.585101e+00
## 1565 -1.112829e+00 -1.087595444 -1.226418e+00 -1.025848369 -1.385101e+00
## 1566 -1.069122e+00 -1.040554138 -9.890699e-01 -0.983729636 -1.126961e+00
## 1567 -9.886670e-01 -0.955248280 -1.095865e+00 -1.090389983 -1.206666e+00
## 1568 -9.401597e-01 -0.902897725 -1.054180e+00 -1.048282505 -1.343811e+00
## 1569 -9.401597e-01 -0.902897725 -1.254180e+00 -1.248282505 -1.343811e+00
## 1570 -9.235994e-01 -0.883502471 -1.064016e+00 -1.457407203 -1.738393e+00
## 1571 -1.011014e+00 -0.977585082 -1.538712e+00 -1.541644670 -2.254675e+00
## 1572 -1.171923e+00 -1.148196798 -1.725122e+00 -1.728323977 -2.495263e+00
## 1573 -1.332832e+00 -1.318808514 -1.911532e+00 -2.115003283 -2.535851e+00
## 1574 -1.440433e+00 -1.431760424 -2.051920e+00 -2.259586368 -3.108869e+00
## 1575 -1.645050e+00 -1.649413446 -3.075678e+00 -3.088384408 -4.007598e+00
## 1576 -1.933747e+00 -1.951846371 -3.268169e+00 -3.479992419 -4.077940e+00
## 1577 1.286281e+01 12.836335812 1.123688e+01 11.221727969 1.077673e+01
## 1578 1.266449e+01 12.629901508 1.092724e+01 11.112437446 1.044178e+01
## 1579 1.246136e+01 12.418157953 1.081327e+01 11.003158180 1.050211e+01
## 1580 1.233869e+01 12.291720257 1.119250e+01 11.387218567 1.108274e+01
## 1581 1.236037e+01 12.316499023 1.096797e+01 11.367082959 1.069854e+01
## 1582 -2.703206e+00 -2.749337319 -3.554092e+00 -3.546381047 -4.010670e+00
## 1583 -2.654699e+00 -2.696986763 -2.912407e+00 -2.904273570 -3.147814e+00
## 1584 -2.461843e+00 -2.493419745 -2.274477e+00 -2.266362087 -2.449787e+00
## 1585 -2.205092e+00 -2.223942123 -1.933507e+00 -1.925986252 -2.236883e+00
## 1586 -1.996850e+00 -2.006815055 -2.034220e+00 -2.227717895 -1.886835e+00
## 1587 -1.750686e+00 -1.745588231 -1.550269e+00 -1.547710190 -1.521238e+00
## 1588 -1.525883e+00 -1.509065911 -1.860819e+00 -1.658566532 -1.565772e+00
## 1589 -1.353214e+00 -1.324368192 -1.888581e+00 -1.881000668 -1.724482e+00
## 1590 -1.256199e+00 -1.219667080 -1.805212e+00 -1.796785713 -1.398770e+00
## 1591 -1.110677e+00 -1.062615413 -1.080158e+00 -1.070463280 -1.210203e+00
## 1592 -1.014836e+00 -0.963749507 -1.325597e+00 -1.316766752 -1.437887e+00
## 1593 -9.828884e-01 -0.930794204 -1.274077e+00 -1.465534576 -1.580449e+00
## 1594 -9.946486e-01 -0.944880208 -1.459905e+00 -1.456421134 -1.781151e+00
## 1595 -1.043156e+00 -0.997230763 -1.501589e+00 -1.498528611 -1.844007e+00
## 1596 -1.091663e+00 -1.049581319 -1.543274e+00 -1.540636089 -1.506863e+00
## 1597 -1.043156e+00 -0.997230763 -1.501589e+00 -1.498528611 -1.444007e+00
## 1598 -9.946486e-01 -0.944880208 -1.459905e+00 -1.456421134 -1.581151e+00
## 1599 -9.946486e-01 -0.944880208 -1.459905e+00 -1.456421134 -1.581151e+00
## 1600 -9.946486e-01 -0.944880208 -1.659905e+00 -1.456421134 -1.581151e+00
## 1601 -9.828884e-01 -0.930794204 -1.674077e+00 -1.665534576 -1.980449e+00
## 1602 -1.063343e+00 -1.016100062 -1.767282e+00 -1.558874230 -1.900743e+00
## 1603 -1.100090e+00 -1.054364615 -1.823139e+00 -1.610095150 -1.962897e+00
## 1604 -1.136837e+00 -1.092629167 -1.678996e+00 -1.661316071 -1.825050e+00
## 1605 1.386316e+01 13.907370833 1.332100e+01 13.138683929 1.317495e+01
## 1606 1.361281e+01 13.651627037 1.328314e+01 13.294667730 1.312649e+01
## 1607 1.379035e+01 13.824343333 1.329302e+01 13.102481694 1.313146e+01
## 1608 1.374000e+01 13.768599537 1.345516e+01 13.458465494 1.348300e+01
## 1609 1.376530e+01 13.792852349 1.350616e+01 13.507800203 1.335012e+01
## 1610 -1.257899e+00 -1.235245395 -1.284519e+00 -1.284972565 -1.645617e+00
## 1611 -1.042512e+00 -1.021685346 -1.423162e+00 -1.424615691 -1.593595e+00
## 1612 -1.243247e+00 -1.222499387 -1.423725e+00 -1.425202423 -1.794304e+00
## 1613 -1.259808e+00 -1.241894640 -1.613889e+00 -1.816077725 -1.999722e+00
## 1614 -1.303515e+00 -1.288935946 -1.851237e+00 -1.858196458 -2.057862e+00
## 1615 -1.335462e+00 -1.321891248 -1.902758e+00 -1.909428634 -2.115301e+00
## 1616 -1.367409e+00 -1.354846550 -1.754278e+00 -1.760660810 -1.972739e+00
## 1617 -1.367409e+00 -1.354846550 -1.754278e+00 -1.760660810 -1.772739e+00

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## 1618 -1.318902e+00 -1.302495995 -1.712593e+00 -1.718553332 -1.909883e+00
## 1619 -1.318902e+00 -1.302495995 -1.712593e+00 -1.718553332 -1.709883e+00
## 1620 -1.270394e+00 -1.250145439 -1.670909e+00 -1.676445855 -1.847028e+00
## 1621 -1.270394e+00 -1.250145439 -1.670909e+00 -1.676445855 -1.847028e+00
## 1622 -1.270394e+00 -1.250145439 -1.670909e+00 -1.676445855 -2.047028e+00
## 1623 -1.318902e+00 -1.302495995 -1.712593e+00 -1.718553332 -2.309883e+00
## 1624 -1.415917e+00 -1.407197106 -1.795963e+00 -1.802768287 -2.435595e+00
## 1625 -1.512931e+00 -1.511898218 -1.879332e+00 -1.886983242 -2.161306e+00
## 1626 -1.512931e+00 -1.511898218 -1.879332e+00 -1.886983242 -2.161306e+00
## 1627 -1.512931e+00 -1.511898218 -1.879332e+00 -1.886983242 -2.161306e+00
## 1628 -1.512931e+00 -1.511898218 -1.879332e+00 -1.886983242 -1.761306e+00
## 1629 -1.415917e+00 -1.607197106 -1.795963e+00 -1.802768287 -1.635595e+00
## 1630 -1.331380e+00 -1.323512666 -1.706197e+00 -1.714453961 -1.712963e+00
## 1631 -1.282872e+00 -1.271162110 -1.664512e+00 -1.672346484 -1.650107e+00
## 1632 -1.234365e+00 -1.218811555 -1.622827e+00 -1.630239006 -1.587251e+00
## 1633 -1.185857e+00 -1.166460999 -1.581143e+00 -1.588131529 -1.924395e+00
## 1634 -1.234365e+00 -1.018811555 -1.622827e+00 -1.630239006 -1.987251e+00
## 1635 -1.270394e+00 -1.250145439 -1.670909e+00 -1.676445855 -2.047028e+00
## 1636 -1.318902e+00 -1.302495995 -1.712593e+00 -1.718553332 -2.109883e+00
## 1637 -1.367409e+00 -1.354846550 -1.754278e+00 -1.760660810 -2.172739e+00
## 1638 -1.415917e+00 -1.407197106 -1.795963e+00 -1.802768287 -2.235595e+00
## 1639 -1.464424e+00 -1.459547662 -1.837647e+00 -1.844875765 -2.098451e+00
## 1640 -1.464424e+00 -1.459547662 -1.837647e+00 -1.844875765 -2.298451e+00
## 1641 -1.512931e+00 -1.511898218 -1.879332e+00 -1.886983242 -2.361306e+00
## 1642 -1.561439e+00 -1.564248773 -2.121016e+00 -2.129090720 -2.624162e+00
## 1643 -1.641893e+00 -1.649554631 -2.214221e+00 -2.222430373 -2.744456e+00
## 1644 1.327765e+01 13.265139511 1.249257e+01 12.484229973 1.173525e+01
## 1645 1.306159e+01 13.033474749 1.206396e+01 12.253545722 1.164149e+01
## 1646 1.290580e+01 12.868246545 1.186286e+01 12.055855506 1.141128e+01
## 1647 1.275001e+01 12.703018342 1.186177e+01 11.858165290 1.118107e+01
## 1648 1.258246e+01 12.523704135 1.167484e+01 11.669588516 1.115017e+01
## 1649 -2.536581e+00 -2.603259515 -3.470401e+00 -3.476880780 -4.217886e+00
## 1650 -2.648983e+00 -2.721520676 -3.415126e+00 -3.621452609 -3.995619e+00
## 1651 -2.676130e+00 -2.749166728 -3.262310e+00 -3.272696041 -3.648342e+00
## 1652 -2.627622e+00 -2.696816172 -2.820626e+00 -2.830588563 -2.585486e+00
## 1653 -2.369699e+00 -2.421503345 -2.550847e+00 -2.559694301 -2.219187e+00
## 1654 -2.111775e+00 -2.146190518 -2.081068e+00 -2.088800040 -1.252887e+00
## 1655 -1.724889e+00 -1.733221277 -1.676399e+00 -1.682458647 -1.103437e+00
## 1656 -1.435019e+00 -1.424953147 -1.555100e+00 -1.760332209 -1.079698e+00
## 1657 -1.220802e+00 -1.196681625 -1.722669e+00 -1.731556680 -1.771539e+00
## 1658 -1.220802e+00 -1.196681625 -1.722669e+00 -1.731556680 -1.771539e+00
## 1659 -1.220802e+00 -1.196681625 -1.722669e+00 -1.731556680 -1.971539e+00
## 1660 -1.269310e+00 -1.249032181 -1.764354e+00 -1.773664158 -1.834395e+00
## 1661 -1.269310e+00 -1.249032181 -1.764354e+00 -1.773664158 -2.034395e+00
## 1662 -1.317817e+00 -1.301382737 -1.806038e+00 -1.815771635 -1.897250e+00
## 1663 -1.317817e+00 -1.301382737 -1.806038e+00 -1.815771635 -2.097250e+00
## 1664 -1.366324e+00 -1.353733292 -1.847723e+00 -1.857879113 -2.360106e+00
## 1665 -1.463339e+00 -1.458434404 -1.931092e+00 -1.942094068 -2.885818e+00
## 1666 -1.657369e+00 -1.667836626 -2.097830e+00 -2.110523978 -2.737241e+00
## 1667 -1.754383e+00 -1.772537738 -2.181199e+00 -2.194738933 -2.662952e+00
## 1668 -1.802891e+00 -1.824888294 -2.222884e+00 -2.236846410 -2.325808e+00
## 1669 -1.754383e+00 -1.772537738 -2.181199e+00 -2.194738933 -1.862952e+00
## 1670 -1.608861e+00 -1.815486071 -2.056146e+00 -2.068416500 -1.474385e+00
## 1671 -1.427309e+00 -1.427100519 -1.883010e+00 -1.695887219 -1.426041e+00

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## 1672 -1.286587e+00 -1.275358103 -1.762293e+00 -1.769553531 -1.442189e+00
## 1673 1.381043e+01 13.829343009 1.332108e+01 13.514661424 1.348352e+01
## 1674 1.379899e+01 13.815331268 1.331622e+01 13.512775213 1.328849e+01
## 1675 1.373904e+01 13.948968972 1.326969e+01 13.268781524 1.283060e+01
## 1676 1.359935e+01 13.604231485 1.313772e+01 12.936462254 1.265479e+01
## 1677 1.345199e+01 13.443786578 1.301649e+01 13.008231099 1.248062e+01
## 1678 -1.700178e+00 -1.721967580 -2.109085e+00 -2.319988800 -2.698269e+00
## 1679 -1.792392e+00 -1.821359441 -2.188117e+00 -2.404215011 -2.619265e+00
## 1680 -1.836100e+00 -1.868400747 -1.825465e+00 -1.846333744 -2.077406e+00
## 1681 -1.772205e+00 -1.802490142 -1.722425e+00 -1.743869392 -1.762529e+00
## 1682 -1.659804e+00 -1.684228982 -1.577699e+00 -1.599297563 -1.784796e+00
## 1683 -1.595910e+00 -1.618318377 -1.674659e+00 -1.696833211 -1.669919e+00
## 1684 -1.515455e+00 -1.533012519 -1.581454e+00 -1.603493557 -1.749625e+00
## 1685 -1.483508e+00 -1.500057217 -1.929934e+00 -1.952261382 -1.892187e+00
## 1686 -1.466948e+00 -1.480661964 -1.939769e+00 -1.961386080 -2.286769e+00
## 1687 -1.547402e+00 -1.565967822 -2.032974e+00 -2.054725733 -2.007064e+00
## 1688 -1.530842e+00 -1.546572568 -1.642810e+00 -1.663850432 -2.001646e+00
## 1689 -1.547402e+00 -1.565967822 -1.632974e+00 -1.654725733 -1.807064e+00
## 1690 -1.515455e+00 -1.533012519 -1.181454e+00 -1.203493557 -1.549625e+00
## 1691 -1.468121e+00 -1.486497168 -1.268578e+00 -1.291904507 -1.240165e+00
## 1692 -1.355720e+00 -1.368236008 -1.123852e+00 -1.147332678 -1.462433e+00
## 1693 -1.340333e+00 -1.354675959 -1.262496e+00 -1.286975804 -1.410412e+00
## 1694 -1.308386e+00 -1.321720657 -1.410976e+00 -1.435743628 -1.752973e+00
## 1695 -1.356893e+00 -1.374071213 -2.052660e+00 -2.077851105 -2.015829e+00
## 1696 -1.404227e+00 -1.420586564 -1.965537e+00 -1.989440155 -2.125289e+00
## 1697 -1.468121e+00 -1.486497168 -2.068578e+00 -2.091904507 -2.040165e+00
## 1698 -1.483508e+00 -1.500057217 -2.129934e+00 -2.152261382 -2.092187e+00
## 1699 -1.498895e+00 8.486382734 -1.991290e+00 -2.012618256 -1.944208e+00
## 1700 -8.584466e-01 9.556611552 -2.120972e+00 -2.026711514 -1.784825e+00
## 1701 9.765441e+00 10.607445116 7.759181e+00 7.968319926 8.769141e+00
## 1702 9.809130e+00 10.652048943 8.024252e+00 8.232322950 8.853985e+00
## 1703 9.836258e+00 10.677257517 7.899159e+00 8.105450673 8.533412e+00
## 1704 9.782931e+00 0.617160233 7.680861e+00 7.885238742 8.492544e+00
## 1705 9.122277e+00 -0.474375363 7.972574e+00 8.060870672 8.303128e+00
## 1706 -1.538377e+00 -1.565910958 -1.935714e+00 -1.963497398 -2.286288e+00
## 1707 -1.618831e+00 -1.651216816 -2.228919e+00 -2.256837051 -2.406582e+00
## 1708 -1.682725e+00 -1.717127420 -2.131959e+00 -1.959301403 -2.121459e+00
## 1709 -1.670965e+00 -1.703041417 -1.946131e+00 -1.968414846 -2.120757e+00
## 1710 -1.670965e+00 -1.703041417 -1.946131e+00 -1.968414846 -2.120757e+00
## [[1]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    1.22580095  0.27393007  0.22843034  0.23859769  0.306133892
## OBFR   -0.06238880  0.89491664  0.03198467  0.02049686 -0.015396578
## TGCR    0.05880073  0.07043002  0.92913835 -0.04556721  0.003510686
## BGCR    0.02400060  0.02654625  0.02168290  0.99994372  0.023575788
## SOFR   -0.24253687 -0.26175278 -0.20842286 -0.21053739  0.685721233
## ones_v -0.13619782 -0.27617359 -0.21393820 -0.23232971 -0.187579922
##
## [[2]]
##          [,1]          [,2]          [,3]          [,4]          [,5]
## [1,] 0.07347661 0.07387512 0.09337332 0.09369826 0.09984423
## [2,] 0.06733451 0.06801334 0.06548165 0.06591763 0.07185784
## [3,] 0.07038329 0.07132104 0.07852935 0.08314964 0.08393840
## [4,] 0.01423115 0.02819155 0.03191118 0.04140756 0.01862241

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## [5,] 0.07146542 0.06956936 0.08850672 0.08878218 0.09725647
## [6,] 0.09107145 0.14937200 0.14643396 0.14364271 0.09226021
##
## [[3]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999997 0.9999996 0.9999993 0.9999993 0.9999994
##
## [[4]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999997 0.9999996 0.9999993 0.9999993 0.9999994
##
## [[5]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    0.005398813 -0.0040759878 0.0040987666 -0.0001761560 -0.0052248617
## OBFR    -0.004075988 0.0045339361 -0.0046560807 0.0002730131 0.0039059288
## TGCR     0.004098767 -0.0046560807 0.0049538078 -0.0004334262 -0.0039392413
## BGCR    -0.000176156 0.0002730131 -0.0004334262 0.0002025257 0.0001303153
## SOFR    -0.005224862 0.0039059288 -0.0039392413 0.0001303153 0.0051073059
## ones_v -0.002332393 0.0018545026 -0.0015221219 -0.0001234813 0.0020723507
##          ones_v          EFFR          OBFR          TGCR          BGCR
## EFFR    -0.0023323934 0.0054575332 -0.0042372965 0.0041189791 -6.192699e-04
## OBFR     0.0018545026 -0.0042372965 0.0046258149 -0.0045942213 6.701687e-04
## TGCR    -0.0015221219 0.0041189791 -0.0045942213 0.0050866908 -8.804555e-04
## BGCR    -0.0001234813 -0.0006192699 0.0006701687 -0.0008804555 7.947638e-04
## SOFR     0.0020723507 -0.0046914780 0.0035105020 -0.0037009520 2.222674e-05
## ones_v  0.0082940089 -0.0047330115 0.0040331108 -0.0032528808 2.550197e-03
##          SOFR          ones_v          EFFR          OBFR          TGCR
## EFFR    -4.691478e-03 -0.004733011 0.0087185763 0.0003282514 -0.001487985
## OBFR     3.510502e-03 0.004033111 0.0003282514 0.0042878462 -0.004831693
## TGCR    -3.700952e-03 -0.003252881 -0.0014879854 -0.0048316929 0.006166858
## BGCR     2.222674e-05 0.002550197 0.0002277205 0.0011739176 -0.001636509
## SOFR     4.839896e-03 0.001307438 -0.0078269381 -0.0010113291 0.001861721
## ones_v  1.307438e-03 0.022311996 -0.0038226117 0.0025944374 -0.001800006
##          BGCR          SOFR          ones_v          EFFR          OBFR
## EFFR     0.0002277205 -0.0078269381 -0.0038226117 0.0087793639 0.0002814428
## OBFR     0.0011739176 -0.0010113291 0.0025944374 0.0002814428 0.0043451333
## TGCR    -0.0016365092 0.0018617214 -0.0018000059 -0.0013427291 -0.0049878201
## BGCR     0.0010183237 -0.0008086979 0.0024983448 0.0001416106 0.0012646635
## SOFR    -0.0008086979 0.0078334387 0.0004431006 -0.0078998063 -0.0009566891
## ones_v  0.0024983448 0.0004431006 0.0214429034 -0.0037387041 0.0025252050
##          TGCR          BGCR          SOFR          ones_v          EFFR
## EFFR    -0.001342729 0.0001416106 -0.0078998063 -0.0037387041 0.0099688708
## OBFR    -0.004987820 0.0012646635 -0.0009566891 0.0025252050 -0.0003243692
## TGCR     0.006913863 -0.0023395215 0.0018322930 -0.0021451892 -0.0007381721
## BGCR    -0.002339521 0.0017145862 -0.0008100642 0.0027421010 0.0007371773
## SOFR     0.001832293 -0.0008100642 0.0078822758 0.0005303034 -0.0096901061
## ones_v -0.002145189 0.0027421010 0.0005303034 0.0206332294 -0.0022565407
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFFR    -0.0003243692 -0.0007381721 0.0007371773 -0.0096901061 -0.0022565407
## OBFR     0.0051635486 -0.0059036592 0.0007710947 0.0002405937 0.0010960869
## TGCR    -0.0059036592 0.0070456558 -0.0011196002 0.0007883938 -0.0006873617
## BGCR     0.0007710947 -0.0011196002 0.0003467942 -0.0007522605 -0.0002133568
## SOFR     0.0002405937 0.0007883938 -0.0007522605 0.0094588203 0.0020123114
## ones_v  0.0010960869 -0.0006873617 -0.0002133568 0.0020123114 0.0085119466

```

```
##
## [[6]]
##      [,1] [,2] [,3]
## [1,] 3833704      6      0
## [2,] 1894395      6      0
## [3,] 1535823      6      0
## [4,] 1501054      6      0
## [5,] 4163512      6      0
```

```
#print(list_res)
print(result[[1]]) # bv
```

```
##      EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR  1.22580095  0.27393007  0.22843034  0.23859769  0.306133892
## OBFR  -0.06238880  0.89491664  0.03198467  0.02049686 -0.015396578
## TGCR   0.05880073  0.07043002  0.92913835 -0.04556721  0.003510686
## BGCR   0.02400060  0.02654625  0.02168290  0.99994372  0.023575788
## SOFR  -0.24253687 -0.26175278 -0.20842286 -0.21053739  0.685721233
## ones_v -0.13619782 -0.27617359 -0.21393820 -0.23232971 -0.187579922
```

```
print(result[[2]]) # sebv
```

```
##      [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.07347661 0.07387512 0.09337332 0.09369826 0.09984423
## [2,] 0.06733451 0.06801334 0.06548165 0.06591763 0.07185784
## [3,] 0.07038329 0.07132104 0.07852935 0.08314964 0.08393840
## [4,] 0.01423115 0.02819155 0.03191118 0.04140756 0.01862241
## [5,] 0.07146542 0.06956936 0.08850672 0.08878218 0.09725647
## [6,] 0.09107145 0.14937200 0.14643396 0.14364271 0.09226021
```

```
print(result[[4]]) # R2adj
```

```
##      EFFR      OBFR      TGCR      BGCR      SOFR
## [1,] 0.9999997 0.9999996 0.9999993 0.9999993 0.9999994
```

```
print(result[[5]]) # v covariance
```

```
##      EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR  0.005398813 -0.0040759878  0.0040987666 -0.0001761560 -0.0052248617
## OBFR  -0.004075988  0.0045339361 -0.0046560807  0.0002730131  0.0039059288
## TGCR   0.004098767 -0.0046560807  0.0049538078 -0.0004334262 -0.0039392413
## BGCR  -0.000176156  0.0002730131 -0.0004334262  0.0002025257  0.0001303153
## SOFR  -0.005224862  0.0039059288 -0.0039392413  0.0001303153  0.0051073059
## ones_v -0.002332393  0.0018545026 -0.0015221219 -0.0001234813  0.0020723507
##      ones_v      EFFR      OBFR      TGCR      BGCR
## EFFR  -0.0023323934  0.0054575332 -0.0042372965  0.0041189791 -6.192699e-04
## OBFR   0.0018545026 -0.0042372965  0.0046258149 -0.0045942213  6.701687e-04
## TGCR  -0.0015221219  0.0041189791 -0.0045942213  0.0050866908 -8.804555e-04
## BGCR  -0.0001234813 -0.0006192699  0.0006701687 -0.0008804555  7.947638e-04
## SOFR   0.0020723507 -0.0046914780  0.0035105020 -0.0037009520  2.222674e-05
## ones_v 0.0082940089 -0.0047330115  0.0040331108 -0.0032528808  2.550197e-03
```

```
##          SOFR      ones_v      EFFR      OBFR      TGCR
## EFFR    -4.691478e-03 -0.004733011  0.0087185763  0.0003282514 -0.001487985
## OBFR     3.510502e-03  0.004033111  0.0003282514  0.0042878462 -0.004831693
## TGCR    -3.700952e-03 -0.003252881 -0.0014879854 -0.0048316929  0.006166858
## BGCR     2.222674e-05  0.002550197  0.0002277205  0.0011739176 -0.001636509
## SOFR     4.839896e-03  0.001307438 -0.0078269381 -0.0010113291  0.001861721
## ones_v  1.307438e-03  0.022311996 -0.0038226117  0.0025944374 -0.001800006
##          BGCR      SOFR      ones_v      EFFR      OBFR
## EFFR     0.0002277205 -0.0078269381 -0.0038226117  0.0087793639  0.0002814428
## OBFR     0.0011739176 -0.0010113291  0.0025944374  0.0002814428  0.0043451333
## TGCR    -0.0016365092  0.0018617214 -0.0018000059 -0.0013427291 -0.0049878201
## BGCR     0.0010183237 -0.0008086979  0.0024983448  0.0001416106  0.0012646635
## SOFR    -0.0008086979  0.0078334387  0.0004431006 -0.0078998063 -0.0009566891
## ones_v  0.0024983448  0.0004431006  0.0214429034 -0.0037387041  0.0025252050
##          TGCR      BGCR      SOFR      ones_v      EFFR
## EFFR    -0.001342729  0.0001416106 -0.0078998063 -0.0037387041  0.0099688708
## OBFR    -0.004987820  0.0012646635 -0.0009566891  0.0025252050 -0.0003243692
## TGCR     0.006913863 -0.0023395215  0.0018322930 -0.0021451892 -0.0007381721
## BGCR    -0.002339521  0.0017145862 -0.0008100642  0.0027421010  0.0007371773
## SOFR     0.001832293 -0.0008100642  0.0078822758  0.0005303034 -0.0096901061
## ones_v -0.002145189  0.0027421010  0.0005303034  0.0206332294 -0.0022565407
##          OBFR      TGCR      BGCR      SOFR      ones_v
## EFFR    -0.0003243692 -0.0007381721  0.0007371773 -0.0096901061 -0.0022565407
## OBFR     0.0051635486 -0.0059036592  0.0007710947  0.0002405937  0.0010960869
## TGCR    -0.0059036592  0.0070456558 -0.0011196002  0.0007883938 -0.0006873617
## BGCR     0.0007710947 -0.0011196002  0.0003467942 -0.0007522605 -0.0002133568
## SOFR     0.0002405937  0.0007883938 -0.0007522605  0.0094588203  0.0020123114
## ones_v  0.0010960869 -0.0006873617 -0.0002133568  0.0020123114  0.0085119466
```

```
print(result[[6]]) # Ftest
```

```
##          [,1] [,2] [,3]
## [1,] 3833704      6      0
## [2,] 1894395      6      0
## [3,] 1535823      6      0
## [4,] 1501054      6      0
## [5,] 4163512      6      0
```

```
bvtablek5<-xtable(result[[1]])
sebvtablek5<-xtable(result[[2]])
R2adjtablek5<-xtable(result[[4]])
vtablek5<-xtable(result[[5]])
Ftesttablek5<-xtable(result[[6]])
rrbpk5table <- cbind(bvtablek5, sebvtablek5)
```

```
k=10
```

```
lhv<- rrbp10[2:1701,1:5]
T<-nrow(lhv)
ones_v <- rep(1, times = T)
nrow(ones_v)
```

```
## NULL
```

```
rhv1<- rrbp10[1:1700,1:5]
rhv<- cbind(rhv1, ones_v) # Add a column of ones
nrow(lhv)
```

```
## [1] 1700
```

```
nrow(rhv)
```

```
## [1] 1700
```

```
nlag<-1
nw<-1
```

```
result <-olsghmmv2(lhv,rhv,nlag,nw) #constant
```

```
## [1] 1700
```

```
## [1] 1700
```

```
## [1] 1700
```

```
## [1] 5
```

```
## [1] 6
```

```
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 107.7041 104.1919 103.8304 104.9545 107.5148
##      EFFR      OBFR      TGCR      BGCR      SOFR
## 11  -1.486242e-01 -0.301555557 -4.147652e-01 -8.827070e-01 -6.973744e-02
## 12  -1.121573e-01 -0.361245626 -2.835489e-01 -4.559551e-01 -3.299179e-02
## 13  -9.038519e-02 -0.239374659 -5.914448e-02  6.603020e-02 -6.686548e-03
## 14  -7.891133e-02 -0.029496675 -4.031424e-02  8.524546e-02  1.178989e-02
## 15  -5.758738e-02 -0.006940083 -1.995449e-02  1.068245e-01  3.594831e-02
## 16  -3.626342e-02  0.015616510  4.052504e-04 -2.715965e-01  6.010672e-02
## 17  -9.184402e-03 -0.054004188 -1.715614e-01 -2.457273e-01  9.030383e-02
## 18   2.099903e-02 -0.221410289  5.245415e-02  4.775493e-01  2.078138e-02
## 19  -1.200060e+00 -0.048144236  2.429592e-01  5.705282e-01  5.990322e-03
## 20   2.569145e-01  0.426106145  5.077968e-01  9.422088e-01 -8.952200e-01
## 21  -3.484494e-02  0.219397041  2.391138e-01  7.771391e-01 -1.555780e-02
## 22  -4.362411e-02  0.209938684  1.309404e-01  4.742206e-01 -2.379437e-02
## 23  -4.407226e-02  0.110624309 -1.731043e-01 -2.261856e-01 -2.594119e-02
## 24  -2.732990e-02 -0.268508777 -1.693645e-01 -3.223821e-01 -1.567915e-02
## 25  -2.884897e-02 -0.271043403 -1.667653e-01 -2.22337e-01 -1.527139e-02
## 26  -3.180680e-02 -0.175533707 -2.660846e-01 -3.231578e-01 -1.637331e-02
## 27  -2.438609e-02 -0.167452078  3.565284e-02 -2.253287e-02 -1.156384e-02
## 28  -3.332587e-02  0.121931667 -1.634854e-01 -7.230094e-01 -1.596556e-02
## 29   1.190610e+00 -0.047423032 -1.501536e-01 -1.138432e-01  1.844848e-03
## 30  -2.815871e-01 -0.340005700 -3.213302e-01 -2.894757e-01  8.923854e-01
## 31  -2.093120e-03 -0.147138580 -1.596669e-01 -4.274338e-01  3.155289e-03
## 32   2.751627e-03 -0.241378224 -2.543846e-01 -4.250309e-01  7.913706e-03
## 33   6.686056e-03 -0.237680223 -4.514935e-01 -5.245154e-01  1.139185e-02
## 34   2.008871e-02 -0.323472643 -4.993713e-02  7.566196e-02  1.950111e-02
## 35   3.874799e-03 -0.0444446234 -2.541498e-01 -4.289563e-01  9.468468e-03
## 36   1.765933e-02 -0.228069624 -3.497292e-01 -5.260769e-01  1.862860e-02
## 37   2.704725e-02 -0.318138994 -3.465463e-01 -6.251942e-01  2.517714e-02
## 38   3.294889e-02 -0.312591992 -4.422097e-01 -7.244208e-01  3.039436e-02
## 39   4.430403e-02 -0.400812362 -1.375813e-01 -8.232803e-01  3.868197e-02
```

## 40	-6.598713e-01	-0.206247210	-3.269196e-01	-7.201329e-01	4.095610e-02
## 41	2.143572e-01	-0.018096303	1.384568e-01	1.438947e-01	-4.671669e-01
## 42	4.146894e-02	0.098385934	8.429035e-02	8.867317e-02	4.586864e-02
## 43	4.094050e-02	0.098492611	2.847632e-01	2.894879e-01	4.563923e-02
## 44	2.950506e-02	0.286134032	-1.534766e-02	-1.104316e-01	3.926905e-02
## 45	4.571897e-02	0.107107623	8.886499e-02	2.941866e-01	4.930169e-02
## 46	4.231299e-02	0.103302945	1.855011e-01	4.928563e-01	4.605295e-02
## 47	3.201474e-02	0.191309961	1.799269e-01	5.900863e-01	3.822414e-02
## 48	2.520278e-02	0.183700605	2.731990e-01	6.874256e-01	3.172665e-02
## 49	1.293732e-02	0.269858621	-3.382073e-02	3.843978e-01	2.215877e-02
## 50	7.219574e-01	0.081053825	2.607999e-01	7.836533e-01	2.464305e-02
## 51	-1.586349e-01	0.084607936	-1.072596e-01	4.173712e-01	5.284154e-01
## 52	6.531064e-03	0.058453988	-6.221228e-02	2.680448e-01	7.602094e-03
## 53	7.139813e-03	-0.041073740	-2.672027e-01	-3.339910e-01	5.914071e-03
## 54	1.948557e-02	-0.226652807	-4.647006e-01	-7.321841e-01	1.356453e-02
## 55	3.576576e-02	-0.408533872	-3.593074e-01	-9.298617e-01	2.469313e-02
## 56	4.105866e-02	-0.303459142	-4.998034e-02	-3.270526e-01	3.159838e-02
## 57	3.059981e-02	-0.116610024	-2.465194e-01	-7.273807e-01	2.760442e-02
## 58	4.377559e-02	-0.100705685	-2.371084e-01	-5.224655e-01	3.845257e-02
## 59	5.407383e-02	-0.288712702	-3.315342e-01	-9.196955e-01	4.628138e-02
## 60	6.429177e-02	-0.277298668	-1.214424e-01	-3.157045e-01	5.602761e-02
## 61	-7.421523e-01	-0.086172598	-1.196080e-01	-3.167380e-01	5.359437e-02
## 62	2.463543e-01	0.116842277	1.647349e-01	1.685922e-01	-5.348036e-01
## 63	5.509988e-02	0.015258226	8.952800e-02	3.927157e-01	5.517543e-02
## 64	4.533009e-02	0.103158566	1.834809e-01	6.891309e-01	4.757602e-02
## 65	3.215431e-02	0.187254228	2.740699e-01	9.842158e-01	3.672787e-02
## 66	1.557255e-02	0.267545212	6.129498e-02	5.779703e-01	2.263097e-02
## 67	1.770037e-02	0.170552110	2.537054e-01	8.757862e-01	2.053520e-02
## 68	2.557378e-03	0.152798771	5.428488e-01	9.706133e-01	7.947970e-03
## 69	-2.606857e-02	0.520258904	6.349535e-01	1.366484e+00	-1.083109e-02
## 70	-4.476412e-02	0.500976594	2.240700e-01	2.634976e-01	-2.584560e-02
## 71	7.684257e-01	0.220314537	5.277829e-01	7.694875e-01	-1.801083e-02
## 72	-1.374983e-01	0.198815132	2.435101e-01	6.846855e-01	5.607172e-01
## 73	1.729614e-02	0.361869277	2.900207e-01	6.361637e-01	-6.533271e-02
## 74	-7.346487e-03	0.137866982	2.642994e-01	3.143870e-01	6.017509e-03
## 75	-1.423174e-02	0.231458702	1.646090e-01	3.153010e-01	2.112248e-03
## 76	-1.217721e-02	0.135666678	1.640569e-01	3.166915e-01	2.608700e-03
## 77	-1.504774e-02	0.133535349	3.627400e-01	1.116900e+00	2.641600e-04
## 78	6.254215e-02	0.307204701	1.549329e+00	1.409939e+00	-1.727919e-02
## 79	7.435149e-02	1.111460949	1.028588e+00	1.687589e+00	2.155760e-02
## 80	1.463972e-01	0.787792976	9.000252e-01	1.567968e+00	8.909126e-02
## 81	1.092749e-01	0.650844036	1.686427e-01	5.440061e-01	1.510257e-01
## 82	3.300942e-02	0.181456812	5.660991e-01	1.846486e+00	1.620383e-01
## 83	-1.079507e+00	0.362742732	2.639210e-01	4.549354e-01	1.590216e-01
## 84	3.045278e-01	0.470831618	3.409652e-02	2.316475e-01	-7.260099e-01
## 85	-2.802778e-02	-0.269376108	-2.063074e-01	-5.072101e-01	1.013730e-01
## 86	1.325635e-03	-0.238139168	-2.784627e-01	-3.834094e-01	3.301584e-02
## 87	9.963841e-03	-0.328986548	-3.759683e-01	-6.832234e-01	3.881225e-02
## 88	-7.799197e-02	-0.416029250	-1.870110e+00	-1.481707e+00	4.785741e-02
## 89	-7.600417e-02	-1.504710306	-1.551444e+00	-1.960374e+00	1.559392e-02
## 90	-1.381209e-01	-1.272019799	-1.326667e+00	-1.744581e+00	-4.774860e-02
## 91	-1.014481e-01	-1.138620257	-7.001275e-01	-1.025995e+00	-1.114033e-01
## 92	-1.173012e-01	-0.662638448	-9.982978e-01	-2.231340e+00	-1.180465e-01
## 93	1.020780e+00	-0.818661137	-6.745031e-01	-1.020021e+00	-8.768648e-02



## 94	-3.348109e-01	-0.897575437	-7.192253e-01	-8.748192e-01	7.277076e-01
## 95	1.637954e-02	-0.437812189	-4.781344e-01	-4.369287e-01	-8.901836e-02
## 96	-4.797833e-03	6.937355511	6.798169e+00	6.137975e+00	-1.399825e-02
## 97	-2.626433e-02	-0.335254754	-1.550093e-01	-5.971167e-01	-1.641828e-02
## 98	-2.839215e-02	-0.238261652	-2.474197e-01	-5.949325e-01	-1.432251e-02
## 99	-2.158018e-02	-0.130652296	-1.406918e-01	-4.922719e-01	-7.825018e-03
## 100	-1.529667e-02	-0.122936263	-1.334911e-01	-3.887964e-01	-1.556931e-03
## 101	-1.045192e-02	-0.117175907	-2.282087e-01	-3.863935e-01	3.201486e-03
## 102	-1.592446e-03	-0.207138601	-2.245529e-01	-5.846961e-01	9.520624e-03
## 103	-9.947805e-01	0.100470755	1.821749e-01	5.179646e-01	1.601811e-02
## 104	2.262971e-01	7.437490518	7.502824e+00	6.945194e+00	-7.313692e-01
## 105	-4.148376e-02	7.306616740	7.330037e+00	6.991557e+00	-8.733678e-04
## 106	-7.430540e-02	-0.077773154	7.223051e-02	1.553240e-01	-1.158102e-02
## 107	-7.923045e-02	0.415887541	1.714658e-01	5.541421e-01	-1.442201e-02
## 108	-6.930005e-02	0.229145099	1.684777e-01	3.552849e-01	-1.065745e-02
## 109	-6.634222e-02	0.133635403	1.677969e-01	2.562090e-01	-9.555532e-03
## 110	-6.687066e-02	0.133742079	1.682698e-01	2.570237e-01	-9.784934e-03
## 111	-6.739911e-02	0.133848756	3.687427e-01	4.578385e-01	-1.001434e-02
## 112	-7.883455e-02	0.221490177	3.686318e-01	6.579190e-01	-1.638452e-02
## 113	9.117775e-01	-0.088440452	6.544885e-02	5.703624e-02	-2.293306e-02
## 114	-3.230846e-01	-7.141836826	-6.959621e+00	-6.173073e+00	7.152941e-01
## 115	-6.923483e-02	-6.825063951	-6.887917e+00	-6.118798e+00	-2.354038e-02
## 116	-3.791824e-02	-6.939775078	-6.833210e+00	-6.081342e+00	-1.543836e-02
## 117	-1.698019e-02	-0.167058136	-2.795588e-01	-1.454348e-01	-1.324772e-02
## 118	-1.243701e-02	-0.262887863	-2.816582e-01	-3.469550e-01	-1.145760e-02
## 119	-9.941346e-03	-0.261145539	-3.806855e-01	-5.475120e-01	-1.009489e+00
## 120	-2.334651e-01	-0.595270843	-3.955553e-01	-2.649975e-01	-2.619155e-01
## 121	-2.442255e-01	-0.410011806	-5.994761e-01	-6.692486e-01	-2.688777e-01
## 122	-2.313513e-01	-0.495697549	-4.974468e-01	-3.682566e-01	-2.609979e-01
## 123	-2.317332e-01	-0.397866580	-6.003109e-01	-5.709586e-01	-2.620488e-01
## 124	-2.202977e-01	-0.585508001	-6.002001e-01	-3.710391e-01	-2.556786e-01
## 125	-2.215899e-01	-0.589739386	-3.054555e-01	4.243715e-01	-2.580097e-01
## 126	-1.246436e+00	-0.322447041	-4.211785e-01	1.331805e-02	-2.771004e-01
## 127	-1.536221e-02	-0.075024376	-1.023366e-01	3.939477e-02	-1.019627e+00
## 128	-2.497127e-01	-0.321035987	-2.223077e-01	3.199540e-01	-2.801117e-01
## 129	-2.623600e-01	-0.337047002	-3.219156e-02	2.142241e-01	7.092695e-01
## 130	-4.868633e-02	0.084399693	-1.885127e-02	2.293459e-01	-4.398608e-02
## 131	-4.716726e-02	-0.013065680	1.785495e-01	7.291974e-01	-4.439383e-02
## 132	-6.579653e-02	0.164797354	-3.115333e-02	2.391516e-02	-5.831238e-02
## 133	-5.647488e-02	-0.022417361	7.084904e-02	1.270937e-01	-5.285980e-02
## 134	-6.245683e-02	0.071456688	7.103004e-02	2.754132e-02	-5.615959e-02
## 135	-6.207496e-02	0.073625719	-2.610581e-02	-4.697566e-01	-5.510872e-02
## 136	9.495155e-01	-0.010149913	-1.152762e-01	-6.623972e-01	-4.494878e-02
## 137	-2.683027e-01	-0.441089291	-6.292247e-01	-8.847798e-01	7.065087e-01
## 138	-1.963925e-02	-0.378807746	-3.053059e-01	-6.632744e-01	-2.361718e-02
## 139	-1.775234e-02	-0.277537694	-3.993428e-01	-1.617956e-01	-1.996068e-02
## 140	-1.411948e-02	-0.275429775	-3.038335e-01	-3.652031e-01	-1.945083e-02
## 141	-1.162382e-02	-0.273687451	-3.028609e-01	3.423993e-02	-1.748235e-02
## 142	-1.488322e-02	-0.279767836	-2.095618e-01	2.293928e-01	-2.155256e-02
## 143	-2.503489e-02	-0.194036527	3.815270e-01	1.323106e+00	-3.020284e-02
## 144	-7.017632e-02	0.350859933	6.620372e-01	2.310435e+00	-6.198284e-02
## 145	-1.121993e-01	0.601404595	7.328316e-01	2.696247e+00	-9.649577e-02
## 146	-1.492170e-01	0.658867509	1.299873e+00	5.082020e+00	-1.300851e-01
## 147	-1.339928e+00	1.250071768	4.313968e-01	8.474654e-01	-2.064300e-01

## 148	5.089506e-02	0.575919234	8.846806e-01	2.213588e+00	-1.000510e+00
## 149	-2.421042e-01	0.665931755	6.237634e-01	1.464299e+00	-2.140862e-01
## 150	-2.520065e-01	0.559541407	4.153552e-01	7.653062e-01	-2.238775e-01
## 151	-2.487331e-01	0.269055398	-1.836420e-01	-4.287719e-01	-2.228207e-01
## 152	-1.188812e-01	-0.191318693	-2.716717e-01	-8.177575e-01	-2.028065e-01
## 153	-1.270224e-01	-0.296190922	-6.801006e-01	-1.832068e+00	-2.154419e-01
## 154	-1.096420e-01	-0.670737879	-8.766162e-01	-2.539656e+00	-1.095788e-01
## 155	-7.056986e-02	-0.823992818	-1.344210e+00	-3.324038e+00	-7.549298e-02
## 156	-9.764001e-03	-1.252896195	-1.706118e+00	-5.005731e+00	-2.720816e-02
## 157	1.166935e+00	-1.563141776	-7.457440e-01	-1.077921e+00	3.877900e-02
## 158	-2.228249e-01	-0.887422569	-1.397454e+00	-2.843319e+00	8.339928e-01
## 159	8.502274e-02	-1.059491807	-9.305416e-01	-1.890427e+00	5.786261e-02
## 160	9.394148e-02	-0.853962737	-1.017487e+00	-1.589747e+00	6.896589e-02
## 161	1.124088e-01	-0.837345139	-3.102850e-01	-5.906255e-01	8.278286e-02
## 162	-1.161476e-02	-0.270222968	-3.108812e-01	-2.972919e-01	7.057807e-02
## 163	1.273331e-02	-0.246030728	-2.900216e-01	2.291542e-02	9.693437e-02
## 164	3.276507e-02	-0.227705520	-2.749173e-01	-6.009490e-02	1.876165e-02
## 165	3.094444e-02	-0.231830228	-1.796999e-01	-2.638695e-01	1.620111e-02
## 166	2.798660e-02	-0.236320532	-7.901909e-02	2.352064e-01	1.509919e-02
## 167	-9.861798e-01	-0.054866173	-8.630380e-02	-7.037503e-02	4.888192e-03
## 168	2.451960e-01	0.194146574	1.399199e-01	5.596247e-01	-7.346703e-01
## 169	6.529257e-03	-0.057732069	1.141936e-01	7.369663e-01	3.161327e-04
## 170	-1.301033e-02	0.118068611	3.020994e-01	8.297967e-01	-1.488268e-02
## 171	-3.216806e-02	0.196038321	-2.071306e-01	-7.467076e-02	-2.903063e-02
## 172	-1.337818e-02	-0.180666815	-1.064628e-01	-7.183049e-02	-1.894693e-02
## 173	-1.830323e-02	-0.087006119	-2.072276e-01	-2.730124e-01	-2.178793e-02
## 174	-1.141097e-02	-0.178817814	-1.050173e-01	-1.715727e-01	-1.720786e-02
## 175	-1.489725e-02	-0.083201441	-1.038637e-01	-1.716820e-01	-1.853918e-02
## 176	-1.345848e-02	0.018754236	-3.019453e-01	-9.706095e-01	-1.702951e-02
## 177	1.012445e+00	-0.248751462	-1.871680e-01	-4.611855e-01	2.519969e-03
## 178	-2.190112e-01	-0.398343158	-4.088741e-01	-8.899643e-01	7.439959e-01
## 179	2.162279e-02	-0.144615514	-5.817022e-01	-1.367048e+00	1.074853e-02
## 180	5.547535e-02	-0.504146260	-5.656604e-01	-1.257814e+00	3.533687e-02
## 181	6.818896e-02	-0.390989901	-4.545960e-01	-1.054380e+00	4.705158e-02
## 182	7.893535e-02	-0.379682544	-3.449771e-01	-8.512036e-01	5.702722e-02
## 183	8.278948e-02	-0.276563491	-4.375684e-01	-9.494670e-01	6.242279e-02
## 184	9.702215e-02	-0.360872506	-6.291032e-01	-1.346181e+00	7.372975e-02
## 185	1.201143e-01	-0.535144215	-4.169821e-01	-9.411983e-01	9.135584e-02
## 186	1.195718e-01	-0.338471144	-3.108111e-01	-7.414584e-01	9.413982e-02
## 187	-8.780128e-01	-0.337307769	-2.053209e-01	-5.407944e-01	9.802572e-02
## 188	3.488861e-01	0.104680048	1.241828e-01	-1.157028e-02	-6.422269e-01
## 189	1.130166e-01	-0.043866189	6.810850e-03	-1.308626e-01	9.769627e-02
## 190	1.095303e-01	0.051750184	7.964500e-03	-3.097199e-02	9.636495e-02
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## 192	1.040768e-01	0.145517556	7.672623e-03	-3.133913e-02	9.329455e-02
## 193	1.090018e-01	0.051856861	3.084374e-01	2.698428e-01	9.613554e-02
## 194	9.264135e-02	0.333158977	3.075617e-01	3.687414e-01	8.692436e-02
## 195	8.961724e-02	0.331523330	1.070620e-01	1.701131e-01	8.472649e-02
## 196	9.750012e-02	0.142352938	-9.285406e-02	-1.277809e-01	8.866940e-02
## 197	1.107879e+00	0.054924870	2.408203e+00	2.373768e+00	9.458078e-02
## 198	2.245619e+00	2.056329057	2.274974e+00	2.234957e+00	7.604498e-01
## 199	1.881955e+00	1.774180735	1.938524e+00	1.797513e+00	1.859745e+00
## 200	1.874022e+00	1.766411296	1.831837e+00	1.589876e+00	1.851853e+00
## 201	1.872982e+00	1.666830162	1.627360e+00	1.383678e+00	1.848541e+00

## 202	1.877923e+00	1.573374979	1.722702e+00	1.377033e+00	1.848529e+00
## 203	1.873925e+00	1.569303541	1.518906e+00	1.369911e+00	1.844115e+00
## 204	1.877956e+00	1.373786004	1.711857e+00	1.561378e+00	1.842823e+00
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## 207	1.833019e+00	1.723164791	-6.131823e-01	-8.673336e-01	1.806273e+00
## 208	-1.637138e+00	-0.626833277	-7.106542e-01	-7.647199e-01	1.876651e+00
## 209	3.051084e-01	0.163453206	4.836156e-01	6.345676e-01	-7.863557e-01
## 210	2.474251e-02	0.266043137	1.382804e-01	3.899341e-01	1.370035e-02
## 211	2.429437e-02	0.166728762	3.342357e-01	5.895279e-01	1.155352e-02
## 212	8.014178e-03	0.248609828	1.288425e-01	4.872055e-01	4.249171e-04
## 213	6.127264e-03	0.147339776	-7.712062e-02	-1.142733e-01	-3.231581e-03
## 214	1.597736e-02	-0.039981615	-1.755911e-01	-2.119095e-01	2.450402e-03
## 215	2.143086e-02	-0.133748987	-2.752992e-01	-3.115424e-01	5.520795e-03
## 216	2.741280e-02	-0.227623036	1.245198e-01	2.880100e-01	8.820590e-03
## 217	3.778179e-03	0.143321744	4.185697e-01	9.827669e-01	-6.021522e-03
## 218	1.077728e+00	0.313103150	4.071294e-01	1.076860e+00	-2.474953e-02
## 219	-2.944238e-01	0.119693466	-5.535458e-01	-6.807560e-01	7.742091e-01
## 220	-1.249986e-03	-0.265727552	-2.073619e-01	-3.328346e-01	-1.906311e-02
## 221	-4.207820e-03	-0.170217856	-3.066812e-01	-4.337587e-01	-2.016503e-02
## 222	3.212891e-03	-0.262136228	-4.943767e-03	-3.313380e-02	-1.535556e-02
## 223	-1.209070e-02	0.018952536	9.323485e-02	1.641353e-01	-2.410794e-02
## 224	-1.951141e-02	0.110870907	-8.502549e-03	6.351036e-02	-2.891740e-02
## 225	-1.655358e-02	0.015361211	-1.091833e-01	6.443446e-02	-2.781548e-02
## 226	-1.450606e-02	-0.082210839	-2.122554e-01	-3.365287e-01	-2.799384e-02
## 227	-7.613801e-03	-0.174022534	-2.100451e-01	-3.508906e-02	-2.341377e-02
## 228	-1.009963e+00	-0.078040566	-3.143548e-01	-7.380489e-01	-2.620371e-02
## 229	2.380750e-01	-0.008739854	1.201263e-01	2.969753e-01	-7.535827e-01
## 230	-7.564339e-03	-0.069385751	-3.292730e-03	1.740982e-01	-2.125894e-02
## 231	-1.589537e-02	0.020470266	9.257859e-02	1.715859e-01	-2.734868e-02
## 232	-2.331608e-02	0.112388638	-2.091588e-01	-3.290390e-01	-3.215814e-02
## 233	-6.573720e-03	-0.166744448	-2.054190e-01	-3.252355e-01	-2.189610e-02
## 234	-4.606505e-03	-0.164895447	-3.973506e-03	7.502227e-02	-2.015702e-02
## 235	-1.642382e-02	0.020576943	-1.069485e-01	-1.275993e-01	-2.757808e-02
## 236	-1.149877e-02	-0.073083752	-2.061838e-01	-1.264174e-01	-2.473709e-02
## 237	-7.484038e-03	-0.168806802	-4.078103e-01	-9.271228e-01	-2.317637e-02
## 238	1.011145e+00	-0.346669836	-9.810742e-02	-2.218406e-01	-9.257820e-03
## 239	-2.335669e-01	-0.312744819	-4.247070e-01	-5.543135e-01	7.232873e-01
## 240	6.237002e-03	-0.160500580	-2.044440e-01	-4.345055e-01	-1.315768e-02
## 241	9.642983e-03	-0.156695902	-3.010801e-01	-4.331752e-01	-9.908939e-03
## 242	1.706369e-02	-0.248614273	-1.993427e-01	-2.325503e-01	-5.099472e-03
## 243	1.266709e-02	-0.155060255	-2.005803e-01	-2.345469e-01	-7.711062e-03
## 244	1.319554e-02	-0.155166931	-3.010532e-01	-5.353617e-01	-7.481660e-03
## 245	2.205502e-02	-0.245129625	-2.973973e-01	-4.336642e-01	-1.162522e-03
## 246	2.455068e-02	-0.243387301	3.575303e-03	-1.342211e-01	8.059530e-04
## 247	-8.893141e-01	0.039657140	-1.963277e-01	-3.358795e-01	-6.436751e-03
## 248	2.307414e-01	-2.121703779	-2.289751e+00	-1.926258e+00	-6.646183e-01
## 249	3.297361e-02	-2.545397764	-2.304257e+00	-1.645452e+00	4.612218e-03
## 250	1.975295e-02	-2.280452305	-2.330383e+00	-1.774430e+00	-9.431615e-03
## 251	2.274621e-02	-0.094533256	-1.522965e-01	-1.987900e-01	-1.344280e-02
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## 258 -1.944318e-01 2.070739017 4.344964e+00 3.793734e+00 6.477581e-01
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## 260 1.802881e+00 3.770076832 3.928509e+00 3.280161e+00 1.768362e+00
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## 301 -2.778220e-01 -0.457273445 -4.633159e-01 -4.955933e-01 4.840855e-01
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## 323 1.957766e+00 2.146417711 2.427748e+00 2.756851e+00 2.949251e-01
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## 325 1.544526e+00 1.517461673 1.536067e+00 1.270353e+00 1.534361e+00
## 326 1.549849e+00 1.326175521 1.334273e+00 8.664093e-01 1.535400e+00
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## 377 -1.123443e+00 -0.002761495 -1.979077e-01 -1.815317e-02 -2.329640e-01
## 378 -8.760394e-03 0.030223908 3.859238e-03 -1.011994e-02 -8.961333e-01
## 379 -2.189094e-01 -0.189319756 -1.919153e-01 -2.058366e-01 -2.294402e-01
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## 465 -3.626449e-01 -1.017058036 -9.913019e-01 -1.277731e+00 -3.614653e-01
## 466 -3.551579e-01 -1.111831063 -1.088384e+00 -7.794015e-01 -3.555599e-01
## 467 -3.557750e-01 -0.918444832 -8.974492e-01 -4.883224e-01 -3.584831e-01
## 468 -3.588879e-01 -0.726800925 -1.207487e+00 -9.966864e-01 -3.633748e-01
## 469 5.670874e-01 -0.899869171 -5.112832e-01 -5.994401e-01 -3.503540e-01
## 470 -5.588838e-01 -0.947488860 -9.164980e-01 -1.110910e+00 3.056238e-01
## 471 -3.448004e-01 -0.924247195 -9.178324e-01 -1.414677e+00 -3.575913e-01

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## 472 -3.349643e-01 -1.115002191 -1.110605e+00 -8.133884e-01 -3.488959e-01
## 473 -3.355815e-01 -0.721615960 -7.196701e-01 -7.223093e-01 -3.518191e-01
## 474 -3.339961e-01 -0.621935990 -6.210887e-01 7.524639e-02 -3.511309e-01
## 475 -3.430106e-01 -0.135839085 -1.354633e-01 2.661091e-01 -3.612398e-01
## 476 -3.503510e-01 -0.043341765 -4.171825e-02 -2.357369e-01 -3.679667e-01
## 477 -3.495873e-01 -0.239003703 -2.359900e-01 -7.303327e-01 -3.658650e-01
## 478 -3.434503e-01 -0.529011963 -5.254522e-01 -1.323341e+00 -3.587754e-01
## 479 -3.314117e-01 -0.813473221 -8.105779e-01 -4.155749e-01 -3.464686e-01
## 480 -1.135053e+00 -0.121722637 -1.201430e-01 -7.231241e-01 -3.515897e-01
## 481 -1.429051e-01 -0.210458345 -2.262350e-01 -2.302447e-01 -9.348666e-01
## 482 -3.292345e-01 -0.305703092 -3.006772e-01 -3.049394e-01 -3.420466e-01
## 483 -3.297629e-01 -0.205596415 -2.002043e-01 -6.041246e-01 -3.422760e-01
## 484 -3.250648e-01 -0.397560352 -3.915849e-01 -1.098205e+00 -3.366961e-01
## 485 -3.149934e-01 -0.683870610 -6.781561e-01 -6.906971e-01 -3.261284e-01
## 486 -3.134080e-01 -0.484190640 -4.795748e-01 -6.931413e-01 -3.254402e-01
## 487 -3.100021e-01 -0.480385962 -4.762108e-01 -5.918110e-01 -3.221914e-01
## 488 -3.080348e-01 -0.478536961 -4.747653e-01 -4.915532e-01 -3.204524e-01
## 489 -3.075064e-01 -0.378643638 -3.752382e-01 -1.192368e+00 -3.202230e-01
## 490 5.040037e-01 -0.962998219 -9.598910e-01 1.162124e-01 -3.081456e-01
## 491 -4.937527e-01 -0.084360928 -6.480958e-02 1.552604e-02 2.682712e-01
## 492 -3.115043e-01 0.109461525 1.100786e-01 -1.067781e-01 -3.272056e-01
## 493 -3.112690e-01 -0.086093737 -8.372027e-02 -5.592457e-04 -3.253332e-01
## 494 -3.142931e-01 -0.087729384 -8.422005e-02 1.008125e-01 -3.275311e-01
## 495 -3.187560e-01 0.108679291 1.133618e-01 -9.888835e-02 -3.312387e-01
## 496 -3.185207e-01 0.013124029 1.956294e-02 -1.926695e-01 -3.293663e-01
## 497 -3.177570e-01 -0.082537910 -7.470876e-02 1.273463e-02 -3.272646e-01
## 498 -3.207811e-01 0.115826443 1.247915e-01 4.141064e-01 -3.294625e-01
## 499 -1.027740e+00 0.310492794 3.214006e-01 8.149625e-01 -3.351385e-01
## 500 -1.766695e-01 0.775770066 7.734753e-01 4.763029e-01 -8.619836e-01
## 501 -3.406759e-01 0.011864712 3.132237e-02 1.348103e-01 -3.410310e-01
## 502 -3.442284e-01 0.010335741 3.129547e-02 3.369968e-01 -3.434583e-01
## 503 -3.506585e-01 0.204895415 2.274318e-01 4.370382e-01 -3.489049e-01
## 504 -3.567068e-01 0.401624120 4.264322e-01 8.397816e-01 -3.533007e-01
## 505 -3.666894e-01 0.494654824 5.225416e-01 5.420095e-01 -3.611746e-01
## 506 -3.714454e-01 0.295614914 3.267975e-01 5.493423e-01 -3.632392e-01
## 507 -3.780221e-01 0.392450296 4.262708e-01 3.529004e-01 -3.678643e-01
## 508 -3.808109e-01 0.295259386 3.319722e-01 6.049104e-02 -3.681899e-01
## 509 3.198062e-01 0.001873155 4.103747e-02 7.694120e-01 -3.652667e-01
## 510 -5.543420e-01 0.614301197 6.711436e-01 4.163329e-03 1.409389e-01
## 511 -2.875738e-01 0.500110212 5.428838e-01 2.743060e-01 -2.699638e-01
## 512 -2.878600e-01 0.306441653 3.520777e-01 3.836933e-01 -2.676460e-01
## 513 -2.914055e-01 0.506692708 5.545707e-01 4.882334e-01 -2.693985e-01
## 514 -2.945692e-01 0.509112794 5.599279e-01 1.895476e+00 -1.701001e-01
## 515 2.205416e+00 1.908558990 1.960233e+00 2.309539e+00 -1.660396e-01
## 516 1.633950e+00 1.806523566 1.920783e+00 1.970735e+00 1.598802e+00
## 517 1.623147e+00 1.996622798 2.112778e+00 2.063306e+00 1.588566e+00
## 518 1.612726e+00 1.988891060 2.107638e+00 2.058580e+00 1.579380e+00
## 519 1.602304e+00 1.981159323 2.102499e+00 1.053853e+00 1.570194e+00
## 520 1.606271e+00 1.892984360 2.016543e+00 2.259852e+00 1.576106e+00
## 521 1.492061e+00 1.979278913 2.105175e+00 2.351093e+00 2.662620e+00
## 522 1.756664e+00 2.859042945 2.956760e+00 2.906353e+00 1.759822e+00
## 523 1.842918e+00 1.552446949 1.655274e+00 2.007678e+00 1.849407e+00
## 524 1.830441e+00 1.536145766 1.639150e+00 1.929582e-01 1.735788e+00
## 525 -6.794296e-01 -0.169358818 -6.424733e-02 -1.242929e-01 1.723446e+00

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## 526 -1.220199e-01 0.018475478 6.301775e-02 3.045888e-01 -5.502714e-02
## 527 -1.258007e-01 -0.185718205 -1.406904e-01 3.029101e-01 -5.865194e-02
## 528 -1.314022e-01 -0.194036596 -1.491811e-01 2.974568e-01 -6.483729e-02
## 529 -1.370037e-01 -0.402354987 -3.576718e-01 -7.996557e-03 -7.102264e-02
## 530 -1.401095e-01 -1.308931053 -1.265190e+00 -9.140069e-01 -7.523951e-02
## 531 -1.384593e-01 -0.916467210 -8.769638e-01 -4.273500e-01 -1.277392e+00
## 532 -4.198557e-01 -1.618399458 -1.550428e+00 -1.100549e+00 -3.927412e-01
## 533 -5.196442e-01 -0.627891292 -5.641202e-01 -3.149641e-01 -4.964031e-01
## 534 -5.219933e-01 -0.831909323 -7.684298e-01 -6.179240e-01 -4.991931e-01
## 535 -5.218467e-01 -0.834185031 -7.717669e-01 -7.214408e-01 -5.000145e-01
## 536 -5.202614e-01 -0.834505061 -7.731855e-01 -9.238851e-01 -3.993263e-01
## 537 -4.925073e-01 -0.706508143 -6.489620e-01 -8.023474e-01 -3.697213e-01
## 538 -4.652817e-01 -0.778404548 -7.242657e-01 -8.799950e-01 -3.403457e-01
## 539 -4.375277e-01 -0.550407630 -5.000423e-01 -4.584574e-01 -3.107406e-01
## 540 -4.137081e-01 -0.426108713 -3.787099e-01 -3.374353e-01 -2.846137e-01
## 541 -3.904169e-01 -0.301703119 -1.569046e-01 -3.155985e-01 -2.587162e-01
## 542 -3.702301e-01 -0.379512122 -3.310815e-01 -2.911689e-01 -3.330992e-01
## 543 -3.702301e-01 -0.279512122 -2.310815e-01 -2.911689e-01 -2.330992e-01
## 544 -3.460287e-01 -0.053044175 -6.884964e-03 -1.674448e-01 -2.059214e-01
## 545 -2.214453e-01 -0.224407197 -1.798243e-01 -2.410186e-01 -1.776928e-01
## 546 -2.203814e-01 -0.322840524 -2.782501e-01 -1.402945e-01 -2.765592e-01
## 547 -2.449577e-01 -0.349697476 -3.027909e-01 -1.643670e-01 -3.041130e-01
## 548 -2.695341e-01 -0.276554428 -2.273316e-01 -1.884395e-01 -3.316668e-01
## 549 -2.932001e-01 -0.201349026 -1.494811e-01 -2.106247e-01 -3.579404e-01
## 550 -3.159558e-01 -0.224081270 -1.692394e-01 -2.309226e-01 -3.829337e-01
## 551 -3.387115e-01 -0.546813514 -5.889976e-01 -5.512206e-01 -4.079270e-01
## 552 -3.558672e-01 -0.165588838 -1.118009e-01 -7.466816e-02 -3.306713e-01
## 553 -3.572989e-01 -0.465764489 -4.111994e-01 -3.733870e-01 -4.315062e-01
## 554 -3.804365e-01 -0.390665764 -3.338218e-01 -3.963870e-01 -4.575504e-01
## 555 -5.026638e-01 -0.413504684 -3.540529e-01 -3.174997e-01 -4.823142e-01
## 556 -5.031922e-01 -0.613398008 -5.535800e-01 -6.166849e-01 -4.825436e-01
## 557 -5.012250e-01 -1.011549007 -9.521345e-01 -1.116427e+00 -4.808046e-01
## 558 -4.957052e-01 -1.008171035 -9.506621e-01 -9.183558e-01 -4.766382e-01
## 559 -4.930630e-01 -0.308704419 -2.530264e-01 -3.224296e-01 -4.754912e-01
## 560 -4.926811e-01 -0.506535388 -4.501623e-01 -4.197276e-01 -4.744403e-01
## 561 -4.926811e-01 -0.506535388 -4.501623e-01 -7.197276e-01 -4.744403e-01
## 562 -4.883648e-01 -0.800668356 -7.444071e-01 -1.116510e+00 -4.699113e-01
## 563 -4.810244e-01 0.306834324 3.618479e-01 1.853360e-01 -4.631844e-01
## 564 -4.823745e-01 0.111599092 1.694677e-01 2.939991e-01 -4.620003e-01
## 565 -4.869839e-01 0.210283474 2.703865e-01 2.978151e-01 -4.648864e-01
## 566 -4.906830e-01 0.111030211 1.736967e-01 2.035184e-01 -4.664922e-01
## 567 -4.938537e-01 0.211670271 2.765339e-01 4.084070e-01 -4.678686e-01
## 568 -4.989916e-01 0.110461330 1.779256e-01 1.303769e-02 -4.709841e-01
## 569 -4.992848e-01 -0.884987255 -8.154003e-01 -8.799287e-01 -4.693412e-01
## 570 -4.957322e-01 -0.883458284 -8.153734e-01 -7.821152e-01 -4.669139e-01
## 571 -4.936184e-01 -0.983884991 -9.172649e-01 -8.853742e-01 -4.659963e-01
## 572 -4.909762e-01 -0.684418374 -6.196293e-01 -4.894480e-01 -4.648493e-01
## 573 1.508642e+00 0.413412595 4.775065e-01 5.078500e-01 -4.659001e-01
## 574 1.041134e+00 0.016347192 1.293150e-01 1.551833e-01 1.011152e+00
## 575 1.038922e+00 -0.092499668 1.770175e-02 1.400678e-01 1.005925e+00
## 576 1.035799e+00 0.196591118 3.036972e-01 4.230651e-01 9.994174e-01
## 577 1.131090e+00 0.286001934 3.911113e-01 5.085066e-01 1.092222e+00
## 578 1.126007e+00 0.375023745 4.781812e-01 6.935997e-01 1.184650e+00
## 579 1.142248e+00 1.286602149 1.385611e+00 1.400272e+00 1.201236e+00

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## 580	1.156610e+00	1.303051997	1.401133e+00	1.316422e+00	1.218778e+00
## 581	1.172411e+00	1.421457523	1.518574e+00	1.433645e+00	1.237829e+00
## 582	1.187683e+00	1.039969726	1.136487e+00	1.051682e+00	1.256650e+00
## 583	-7.949303e-01	-0.641944778	-5.474905e-01	-5.335397e-01	1.176390e+00
## 584	-4.305387e-01	1.845991438	1.889216e+00	1.704478e+00	-3.064955e-01
## 585	-3.165243e-01	1.076761949	1.125735e+00	1.047199e+00	-2.828549e-01
## 586	-3.228586e-01	0.879822095	1.033929e+00	8.593299e-01	-2.849329e-01
## 587	-4.321508e-01	0.778391937	8.428042e-01	6.705366e-01	-3.881128e-01
## 588	-4.356147e-01	0.283583411	3.523155e-01	2.824587e-01	-4.878463e-01
## 589	-4.611662e-01	-0.738119768	-6.642613e-01	-6.326023e-01	-5.138400e-01
## 590	-4.828720e-01	-0.662845391	-5.874852e-01	-5.568834e-01	-5.390492e-01
## 591	-5.051063e-01	-0.787464338	-7.102362e-01	-4.803497e-01	-5.644879e-01
## 592	-5.296897e-01	-0.616101316	-5.372969e-01	-4.067759e-01	-5.927166e-01
## 593	-5.538912e-01	-0.842569263	-7.614934e-01	-7.305000e-01	-5.198943e-01
## 594	-4.523058e-01	-2.342889293	-2.262912e+00	-2.132944e+00	-5.192061e-01
## 595	-5.673701e-01	-1.571666425	-1.395965e+00	-1.671682e+00	-5.426307e-01
## 596	-5.632228e-01	-1.573098787	-1.595230e+00	-1.476979e+00	-5.388781e-01
## 597	-5.539236e-01	-1.269888603	-1.201585e+00	-1.185832e+00	-5.350233e-01
## 598	-5.502245e-01	-0.970635340	-9.048954e-01	-9.915357e-01	-5.334175e-01
## 599	-5.466719e-01	-0.669106369	-6.048684e-01	-6.937222e-01	-5.309902e-01
## 600	-5.447047e-01	-0.367257368	-3.034229e-01	-3.934644e-01	-5.292512e-01
## 601	-5.443228e-01	-0.565088338	-5.005588e-01	-6.907623e-01	-5.282003e-01
## 602	-5.414453e-01	-0.361176983	-2.967220e-01	-4.886172e-01	-5.251809e-01
## 603	-5.396247e-01	-0.557052275	-4.919394e-01	-6.848426e-01	-5.226204e-01
## 604	-5.367471e-01	-1.153140920	-1.088103e+00	-1.182698e+00	-5.196011e-01
## 605	-6.321377e-01	-0.451825303	-4.890215e-01	-3.865135e-01	-5.167150e-01
## 606	-6.055138e-01	-0.622540401	-5.675527e-01	-6.634042e-01	-4.893395e-01
## 607	-4.804090e-01	-0.295790125	-2.434848e-01	-3.401464e-01	-4.615563e-01
## 608	-5.800271e-01	-0.793621095	-7.406207e-01	-6.374444e-01	-4.605054e-01
## 609	-4.567430e-01	-0.670995527	-6.213353e-01	-5.179612e-01	-4.352827e-01
## 610	-4.571249e-01	-0.773164558	-7.241995e-01	-7.206633e-01	-4.363336e-01
## 611	-4.555395e-01	-0.373484588	-3.256181e-01	-3.231075e-01	-4.356454e-01
## 612	-4.560680e-01	-0.373377911	-3.251452e-01	-3.222928e-01	-4.358748e-01
## 613	-4.565964e-01	-0.473271235	-4.246724e-01	-2.214780e-01	-4.361042e-01
## 614	-4.594739e-01	-0.177182590	-1.285092e-01	-1.236231e-01	-4.391235e-01
## 615	-3.610593e-01	-0.476862560	-4.270905e-01	-4.211789e-01	-4.398117e-01
## 616	-3.841969e-01	0.598236166	6.502871e-01	5.558212e-01	-4.658559e-01
## 617	-5.117086e-01	0.276464012	3.347847e-01	3.428561e-01	-4.929138e-01
## 618	-4.159362e-01	0.177317425	2.385677e-01	-5.062591e-02	-3.947490e-01
## 619	-5.151654e-01	-0.016564488	4.681593e-02	-4.286813e-02	-3.919725e-01
## 620	-4.930777e-01	-0.289669834	-2.270960e-01	-1.158850e-01	-3.657123e-01
## 621	-4.722822e-01	-0.267006564	-2.062634e-01	-1.934912e-01	-3.417833e-01
## 622	-4.500480e-01	-0.242387618	-1.835124e-01	-7.002485e-02	-3.163446e-01
## 623	-4.292525e-01	0.280275651	3.373202e-01	1.523689e-01	-2.924156e-01
## 624	-4.067829e-01	0.109339336	1.662724e-01	8.205415e-02	-2.651046e-01
## 625	-3.846952e-01	-0.063766010	-7.639542e-03	-9.096270e-02	-2.388444e-01
## 626	-3.615506e-01	-0.837084709	-7.824972e-01	-7.656091e-01	-2.121255e-01
## 627	-3.356172e-01	-0.913212499	-8.630563e-01	-8.478460e-01	-1.850810e-01
## 628	-3.091553e-01	0.210553034	2.559117e-01	4.691023e-01	-2.578071e-01
## 629	-3.146751e-01	0.107175063	1.544393e-01	2.710310e-01	-3.619734e-01
## 630	-3.415188e-01	0.181240499	2.326071e-01	2.513806e-01	-2.902982e-01
## 631	-3.441611e-01	-0.118226118	-6.502856e-02	1.554544e-01	-2.914452e-01
## 632	-3.480955e-01	-0.421924119	-3.679196e-01	-2.450612e-01	-2.949233e-01
## 633	-3.490058e-01	-0.523986474	-4.703109e-01	-3.469485e-01	-2.962036e-01

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## 634 -3.493877e-01 -0.526155504 -4.731750e-01 -3.496505e-01 -2.972545e-01
## 635 -2.497696e-01 -0.528324535 -4.760392e-01 -3.523526e-01 -2.983053e-01
## 636 -3.732890e-01 -0.455394840 -4.015257e-01 -1.780546e-01 -3.254004e-01
## 637 -3.756381e-01 -0.459412872 -4.058354e-01 -8.101448e-02 -3.281903e-01
## 638 -3.794260e-01 -0.165386581 -1.120635e-01 1.495312e-02 -3.324899e-01
## 639 -3.819216e-01 -0.567128905 -5.130361e-01 -3.844899e-01 -2.344584e-01
## 640 -2.590123e-01 -0.644892342 -5.940950e-01 -5.653551e-01 -3.096118e-01
## 641 -2.805646e-01 -0.470113647 -4.181360e-01 -4.907994e-01 -3.349677e-01
## 642 -3.017349e-01 -0.493165921 -4.393128e-01 -5.135416e-01 -3.592728e-01
## 643 -3.229053e-01 -0.216218195 -1.604897e-01 -2.362838e-01 -3.835779e-01
## 644 -3.456610e-01 -0.538950439 -4.802479e-01 -4.565817e-01 -3.085712e-01
## 645 -4.449790e-01 -0.539552797 -4.815379e-01 -5.585596e-01 -3.084884e-01
## 646 2.180279e+00 1.986701798 2.041713e+00 1.863535e+00 -2.808519e-01
## 647 1.592188e+00 2.270145844 2.390522e+00 2.109072e+00 1.565411e+00
## 648 1.583059e+00 1.266645491 1.390638e+00 1.308934e+00 1.558557e+00
## 649 1.576337e+00 1.658167018 1.782188e+00 1.698504e+00 1.550977e+00
## 650 1.467501e+00 1.750115250 1.875629e+00 1.891333e+00 1.542480e+00
## 651 1.579835e+00 1.665115757 1.790247e+00 1.706905e+00 1.558287e+00
## 652 1.570999e+00 1.357063989 1.483689e+00 1.499734e+00 1.549790e+00
## 653 1.562310e+00 0.846736515 9.737932e-01 1.089046e+00 1.540471e+00
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## 658 -4.724585e-01 -0.877591257 -8.077097e-01 -8.962481e-01 -5.448863e-01
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## 663 -5.671530e-01 -0.373317945 -3.048787e-01 -2.973347e-01 -4.405679e-01
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## 665 -4.008320e-01 -0.401630136 -3.394898e-01 -2.296377e-01 -2.653027e-01
## 666 -3.793545e-01 -0.379569225 -3.199472e-01 -3.092218e-01 -2.412909e-01
## 667 -3.564382e-01 -0.655552636 -5.984861e-01 -6.877334e-01 -2.157695e-01
## 668 -3.304978e-01 -0.429900400 -3.765253e-01 -3.676167e-01 -1.880502e-01
## 669 -3.070530e-01 -0.205990488 -1.555371e-01 5.305698e-02 -1.622994e-01
## 670 -2.875427e-01 -0.185778577 -1.374400e-01 -2.678492e-02 -2.400267e-01
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## 672 -2.919915e-01 0.214190150 2.651817e-01 2.782216e-01 -3.423846e-01
## 673 -3.182998e-01 0.289928935 3.453966e-01 1.601101e-01 -2.698052e-01
## 674 -3.189678e-01 -0.405908655 -3.482736e-01 -3.332046e-01 -3.685383e-01
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## 682 -4.747621e-01 -0.955571050 -8.875266e-01 -7.668926e-01 -3.254307e-01
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## 697 -4.476894e-01 -0.093736175 -3.780062e-01 -3.608108e-01 -6.602923e-01
## 698 -3.845752e-01 -0.529373072 -8.192701e-01 -9.009575e-01 -6.062586e-01
## 699 4.822451e-01 0.036023321 -1.261324e+00 -1.344454e+00 -5.499443e-01
## 700 5.154827e-01 0.464680173 -8.794185e-01 -1.064553e+00 1.271976e-01
## 701 4.103336e-01 0.165780553 -1.041754e+00 -1.528160e+00 3.854618e-01
## 702 3.931903e-01 0.258080735 -7.122991e-01 -7.032174e-01 2.465392e-01
## 703 6.290480e-01 0.597994734 1.285700e+00 1.394587e+00 2.651062e-01
## 704 1.522897e+00 1.380515864 1.332993e+00 1.341523e+00 3.771903e-01
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## 717 -3.373771e-01 -0.066592623 -4.889684e-01 -5.686719e-01 -5.409691e-01
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## 755 -7.871279e-01 -0.670197267 -5.759045e-01 -5.698298e-01 -7.551388e-01
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## 763 -2.831551e-01 -0.266056909 -7.123052e-01 -8.039942e-01 9.305404e-02
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## 773 -4.485626e-01 -0.185552537 -5.309828e-01 -5.247715e-01 -8.068942e-01
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## 775 2.856759e-02 0.091844339 -6.815872e-01 -6.739899e-01 -1.661820e-01
## 776 -6.425176e-02 0.002500484 -6.037066e-01 -6.957142e-01 -7.591351e-02
## 777 -1.195821e-01 0.051847242 -5.805365e-01 -6.730783e-01 -1.381051e-01
## 778 -6.750661e-01 -0.298310318 -6.565494e-01 -6.492792e-01 -2.001500e-01
## 779 -2.130701e+00 -2.344546091 -5.233188e-01 -5.147501e-01 -6.416308e-01
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## 781 -5.153560e-01 -0.350514073 -6.140959e-01 -6.074631e-01 -3.950628e-01
## 782 -6.384866e-02 -0.095363582 -5.697206e-01 -5.626075e-01 -5.404269e-01
## 783 -2.416238e-01 -0.075950768 -5.579159e-01 -5.510618e-01 -2.360805e-01
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## 785 -3.825714e-01 -0.817075292 -3.958793e-01 -2.901234e-01 -2.653449e-01
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## 787 -2.823110e-01 -0.731027808 -5.438561e-01 -4.407235e-01 -3.294210e-01
## 788 -9.821774e-02 -0.652992762 -5.497030e-01 -4.476680e-01 -2.397470e-01
## 789 -1.321834e-01 -0.594015367 -1.782245e-01 -7.759378e-02 2.657721e-02
## 790 -3.131645e-01 -0.980412398 -4.173306e-02 5.770429e-02 2.611533e-01
## 791 -2.264418e-01 -0.599785539 2.980263e+00 3.077581e+00 2.885178e+00
## 792 -1.008162e-01 -0.470747139 1.141220e+00 1.236278e+00 1.376122e+00
## 793 -1.784087e-01 -0.648568217 9.171893e-01 1.011015e+00 8.668938e-01
## 794 3.464949e-02 0.158875703 4.849835e-01 5.771649e-01 4.326059e-01
## 795 5.201938e-02 0.076755686 4.064283e-01 3.997704e-01 3.551981e-01

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## 797	-3.852898e-03	0.122446283	6.525008e-01	6.458641e-01	7.069312e-01
## 798	-2.570286e-02	0.103422473	5.410402e-01	5.346667e-01	5.029610e-01
## 799	1.169319e-02	0.042209108	-1.339474e-02	8.051122e-02	3.506421e-01
## 800	-7.113593e-02	0.061285342	-2.123722e-01	-2.173696e-01	-3.939997e-02
## 801	-1.116464e-01	-0.177938589	-3.073446e+00	-3.077791e+00	-2.799337e+00
## 802	-4.381706e-01	-0.414278572	-3.166194e-01	-3.198904e-01	-3.782181e-01
## 803	-1.595874e-01	-0.136739142	-4.367036e-01	-4.399853e-01	-5.022353e-01
## 804	-1.534796e-01	-0.333058588	-1.438740e-01	-1.470041e-01	-1.868905e-02
## 805	-1.575013e-01	-0.039115565	-3.447674e-01	-3.486523e-01	-2.209246e-01
## 806	-1.824233e-01	-0.162500559	-4.863933e-01	-4.896943e-01	-5.602913e-01
## 807	-2.766903e-01	-0.259209010	-6.939079e-01	-6.970615e-01	-6.771211e-01
## 808	-2.655038e-01	-0.349684833	-6.011307e-01	-6.040616e-01	-5.908806e-01
## 809	-3.417795e-01	-0.328716000	-4.879490e-01	-5.911222e-01	-5.850300e-01
## 810	-2.993072e-01	-0.287511847	-5.086267e-02	-5.482588e-02	-5.507197e-02
## 811	-2.640068e-01	-0.351554920	-8.180105e-03	-1.223489e-02	-2.097938e-01
## 812	-4.802137e-01	-0.570748485	-9.098728e-01	-9.144994e-01	-1.119152e+00
## 813	-4.205346e-01	-0.516374799	3.385291e-01	3.336449e-01	1.124529e-01
## 814	-5.475531e-01	-0.444703536	-5.555966e-01	-5.612712e-01	-5.827694e-01
## 815	-5.600909e-01	-0.556148193	-3.760011e-01	-3.812106e-01	-4.023795e-01
## 816	-5.418783e-01	-0.437586222	-3.541434e-01	-3.593925e-01	-1.791763e-01
## 817	-4.721584e-01	-0.463873761	1.208948e-02	7.281156e-03	-1.337172e-03
## 818	-4.004329e-01	-0.290792894	9.848729e-02	9.350831e-02	-9.652715e-03
## 819	-3.470734e-01	-0.235778316	1.638446e-01	1.590805e-01	5.897524e-02
## 820	-3.937140e-01	-0.280763738	-2.707981e-01	-2.753472e-01	-3.723968e-01
## 821	-4.113304e-01	-0.398052018	-3.911502e-01	-3.953054e-01	-3.947012e-01
## 822	-4.284184e-01	-0.415446974	-6.119752e-01	-6.160783e-01	-6.167761e-01
## 823	-6.811817e-01	-0.569187861	-1.775827e+00	-1.779791e+00	-1.584505e+00
## 824	-4.422269e-01	-0.430556938	-2.882354e-01	-2.911777e-01	-3.022903e-01
## 825	-5.243892e-01	-0.412383972	-3.667220e-01	-3.697081e-01	-3.794632e-01
## 826	-5.012516e-01	-0.487482698	-5.440997e-01	-5.467081e-01	-7.534190e-01
## 827	-4.652968e-01	-0.454077845	-8.088794e-01	-8.115030e-01	-8.276650e-01
## 828	-4.366475e-01	-0.426769708	-6.949330e-01	-6.973818e-01	-7.189734e-01
## 829	-4.905354e-01	-0.581677609	-4.598174e-01	-4.621393e-01	-5.878308e-01
## 830	-5.191264e-01	-0.512811511	-1.827316e-01	-1.855064e-01	-3.169453e-01
## 831	-4.892794e-01	-0.383087213	1.596591e-01	1.567175e-01	2.526242e-02
## 832	-4.009944e-01	-0.392504713	1.673547e-01	1.645323e-01	2.387924e-01
## 833	1.111028e-02	-0.077623297	1.496383e+00	1.493369e+00	1.178449e+00
## 834	-1.154603e-01	-0.104313882	-6.998723e-02	-7.414109e-02	1.599102e-02
## 835	8.961833e-02	0.101529741	1.229960e+00	1.225878e+00	1.118685e+00
## 836	3.435793e-01	0.357686789	2.222256e+00	2.217693e+00	2.119931e+00
## 837	7.220291e-01	0.640665592	2.964802e+00	2.959447e+00	2.780590e+00
## 838	8.254009e-01	0.847029388	1.948973e+00	1.942243e+00	1.980615e+00
## 839	9.669777e-01	0.991246099	1.720048e+00	1.712956e+00	1.662104e+00
## 840	1.013913e+00	1.038365354	1.583264e+00	1.575952e+00	1.626387e+00
## 841	9.484634e-01	0.873544271	8.252577e-01	8.178465e-01	9.709125e-01
## 842	6.768914e-01	0.799967723	4.380428e-01	4.304562e-01	4.790814e-01
## 843	5.747904e-01	0.697269234	2.097272e-01	2.028199e-01	5.449598e-01
## 844	7.247253e-01	0.749614559	1.425314e+00	1.419224e+00	1.365704e+00
## 845	6.720351e-01	0.497122819	4.888738e-01	4.825696e-01	5.303624e-01
## 846	4.726218e-01	0.293190378	-3.205669e-01	-3.274910e-01	-1.898312e-01
## 847	1.898485e-01	0.305014741	-1.236938e+00	-1.244185e+00	-1.220714e+00
## 848	-1.080921e-01	0.002802636	-6.015572e-01	-6.076390e-01	-6.055574e-01
## 849	-2.276559e-01	-0.217679814	-6.510420e-01	-6.563966e-01	-4.621300e-01

## 850	-2.877247e-01	-0.377517416	-5.361676e-01	-5.411927e-01	-5.469215e-01
## 851	-2.636256e-01	-0.356159578	-2.264170e-02	-2.790494e-02	-4.069485e-02
## 852	-5.071295e-02	-0.244325917	4.981069e-01	4.923829e-01	3.792913e-01
## 853	-2.132532e-01	-0.409496266	-4.398627e-01	-4.466358e-01	-6.617320e-01
## 854	-5.410364e-01	-0.643677924	-7.710563e-01	-7.785520e-01	-1.010517e+00
## 855	-5.631447e-01	-0.670742268	4.992033e-01	4.914105e-01	4.442905e-01
## 856	-3.007156e+00	-2.913135878	-2.607597e+00	-2.616196e+00	-2.852731e+00
## 857	-3.003017e+00	-3.308758703	-2.298122e+00	-2.306342e+00	-2.345877e+00
## 858	-2.918482e+00	-3.226408662	-2.583555e+00	-2.593132e+00	-2.730110e+00
## 859	-2.928590e+00	-3.041156077	-2.776847e+00	-2.787638e+00	-2.931550e+00
## 860	-3.064522e+00	-3.079570815	-3.111636e+00	-3.122720e+00	-3.172962e+00
## 861	-3.107539e+00	-3.023197581	-3.466538e+00	-3.477374e+00	-3.430913e+00
## 862	-3.175853e+00	-3.090598345	-3.163410e+00	-3.173418e+00	-3.228608e+00
## 863	-3.196107e+00	-3.109712841	-2.996034e+00	-3.005421e+00	-3.060891e+00
## 864	-3.080686e+00	-2.992481406	-2.385631e+00	-2.394484e+00	-2.547520e+00
## 865	-3.099743e+00	-3.009179741	-4.189810e+00	-4.198384e+00	-4.346288e+00
## 866	-6.395024e-01	-0.752602452	-5.808866e-01	-5.883897e-01	-5.555665e-01
## 867	-6.385991e-01	-0.452320124	-9.810153e-01	-9.888561e-01	-1.054961e+00
## 868	-6.175625e-01	-0.630117338	-6.867085e-01	-6.934923e-01	-7.630385e-01
## 869	-6.532378e-01	-0.766463269	-3.297353e-01	-3.364317e-01	-4.086927e-01
## 870	-6.224875e-01	-0.536456642	-5.874733e-01	-5.946742e-01	-5.658795e-01
## 871	-6.121090e-01	-0.623884710	-4.864167e-01	-4.931252e-01	-5.599681e-01
## 872	-6.121090e-01	-0.623884710	-7.864167e-01	-7.931252e-01	-6.599681e-01
## 873	-6.190397e-01	-0.629592420	-8.073463e-01	-8.138606e-01	-7.766544e-01
## 874	-6.492615e-01	-0.659705723	-7.500812e-01	-7.564329e-01	-7.192382e-01
## 875	-6.616457e-01	-0.571646061	-6.713027e-01	-6.775354e-01	-7.389949e-01
## 876	-7.745583e-01	-0.683479722	-1.192051e+00	-1.197823e+00	-1.258981e+00
## 877	-7.584468e-01	-0.767616241	-3.985094e-01	-4.036414e-01	-4.698994e-01
## 878	-7.049338e-01	-0.513097344	-1.339692e-01	-1.392323e-01	-1.014181e-01
## 879	-5.826041e-01	-0.485148314	2.969326e-01	2.923168e-01	2.442968e-01
## 880	-3.349777e-01	-0.433425285	8.698045e-01	8.652562e-01	7.297546e-01
## 881	-2.673544e-01	-0.164656567	6.835376e-01	6.780557e-01	4.517381e-01
## 882	-6.631030e-02	-0.061744724	4.127989e-01	4.073214e-01	1.854009e-01
## 883	-5.975448e-02	-0.056426019	5.333844e-01	5.277084e-01	4.017112e-01
## 884	-1.206982e-02	-0.108528755	9.728844e-02	9.140199e-02	6.674601e-02
## 885	-3.520740e-02	0.066569970	7.746661e-01	7.684020e-01	8.407019e-01
## 886	1.996600e-01	0.405963657	1.025972e+00	1.019890e+00	1.006027e+00
## 887	1.315786e+00	0.826902050	3.055894e+00	3.050376e+00	3.047919e+00
## 888	2.054228e+00	1.663131955	3.167064e+01	3.166233e+01	3.147161e+01
## 889	6.708011e+00	6.307029379	9.921544e+00	9.898626e+00	1.069040e+01
## 890	3.593130e+00	3.395400554	4.388051e+00	4.462338e+00	5.186156e+00
## 891	3.653839e+00	3.353785685	4.328383e+00	4.302792e+00	4.828573e+00
## 892	3.422975e+00	3.216008439	4.282595e+00	4.255809e+00	4.868763e+00
## 893	3.356378e+00	3.145711026	5.202748e+00	5.175132e+00	5.683722e+00
## 894	3.444867e+00	3.232737676	5.816230e+00	5.787314e+00	6.201054e+00
## 895	3.099252e+00	2.986223560	3.815474e+00	3.785009e+00	4.306625e+00
## 896	2.680488e+00	2.663458951	3.373280e+00	3.342480e+00	3.854753e+00
## 897	2.167774e+00	2.948200660	6.432885e+00	6.402177e+00	6.706851e+00
## 898	1.991533e+00	2.290628397	-2.636914e+01	-2.639804e+01	-2.554684e+01
## 899	-3.023172e+00	-2.416449126	-5.398441e+00	-5.413135e+00	-5.547074e+00
## 900	-2.246650e-01	0.179492665	-1.260694e-01	-2.369330e-01	-3.059395e-01
## 901	-3.831597e-01	0.024371475	9.468020e-02	8.469284e-02	3.121174e-01
## 902	-2.782029e-01	0.037997848	5.871303e-01	5.788206e-01	6.239391e-01
## 903	-1.534029e-01	0.169165592	-2.787412e-01	-2.860284e-01	-1.275668e-01

## 904	-1.836884e-01	0.143009274	-9.379415e-01	-9.437375e-01	-6.814462e-01
## 905	2.022913e-01	0.332220756	6.955832e-01	6.915720e-01	7.536092e-01
## 906	4.618539e-01	0.494245971	9.619208e-01	9.582082e-01	1.126060e+00
## 907	6.390330e-01	0.673559466	-3.151390e+00	-3.055198e+00	-2.579185e+00
## 908	2.405432e-01	0.366713133	1.895183e+00	1.894126e+00	1.835708e+00
## 909	3.068301e-01	0.438636283	1.517668e+00	1.516290e+00	1.477133e+00
## 910	6.846784e-01	0.620472616	1.033275e+00	1.031801e+00	1.105175e+00
## 911	8.146789e-01	0.649701233	1.074848e+00	1.072862e+00	1.147236e+00
## 912	8.215419e-01	0.854028576	1.193800e+00	1.190923e+00	1.163253e+00
## 913	8.328015e-01	0.764801899	9.139884e-01	9.109802e-01	9.818815e-01
## 914	8.089142e-01	0.739122615	8.906776e-01	9.872835e-01	8.550852e-01
## 915	5.602970e-01	0.487082061	5.436431e-01	5.406773e-01	6.008817e-01
## 916	5.193217e-01	0.344007820	3.995073e-01	3.962077e-01	3.520105e-01
## 917	-4.677074e-01	-0.647984283	-1.188712e+00	-1.292750e+00	-1.348426e+00
## 918	-6.802412e-01	-0.667963054	-1.922800e+00	-1.928155e+00	-2.006829e+00
## 919	-2.850261e+00	-2.943678128	-2.043039e+00	-2.047781e+00	-1.949297e+00
## 920	-2.796910e+00	-2.687897954	-2.862111e+00	-2.867431e+00	-2.856297e+00
## 921	-2.917164e+00	-2.707012450	-2.794735e+00	-2.799434e+00	-2.888581e+00
## 922	-2.919734e+00	-2.807458299	-2.905028e+00	-2.908803e+00	-2.797890e+00
## 923	-2.998485e+00	-2.683605231	-2.993989e+00	-2.997151e+00	-2.881073e+00
## 924	-2.967010e+00	-2.646684550	-2.981076e+00	-3.082786e+00	-2.858198e+00
## 925	-2.734097e+00	-2.507808191	-2.666245e+00	-2.667349e+00	-2.633813e+00
## 926	-2.713751e+00	-2.384237452	-2.455077e+00	-2.455230e+00	-2.317601e+00
## 927	-2.529513e+00	-2.293575883	-2.178312e+00	-2.177153e+00	-2.126997e+00
## 928	-2.456029e+00	-2.215875251	-2.202948e+00	-2.200974e+00	-2.042680e+00
## 929	2.290889e-02	0.168058008	-1.427293e+00	-1.424427e+00	-1.255292e+00
## 930	-1.153154e-01	0.027375436	-2.263909e-01	-2.224087e-01	-6.783206e-02
## 931	-4.187133e-03	0.140725378	-2.464582e-02	-2.016288e-02	2.388315e-01
## 932	4.769511e-02	0.196264874	2.007370e-02	2.504106e-02	9.384350e-02
## 933	1.529950e-01	0.202993183	3.211827e-01	3.265713e-01	2.970606e-01
## 934	1.653792e-01	0.214933521	4.424042e-01	4.476739e-01	4.168173e-01
## 935	1.956010e-01	0.245046824	2.851391e-01	2.902462e-01	2.594011e-01
## 936	1.901475e-01	0.138814196	-1.151528e-01	-1.101210e-01	-4.366933e-02
## 937	1.317095e-01	0.077955995	-2.804577e-01	-2.757119e-01	-1.499162e-02
## 938	2.020161e-01	0.147736015	7.763345e-01	7.809010e-01	8.426540e-01
## 939	3.037422e-01	0.250045499	7.043059e-01	7.081889e-01	6.763995e-01
## 940	2.465018e-01	0.291603459	1.674452e-01	1.707006e-01	2.385934e-01
## 941	2.286641e-01	0.173430494	-5.406816e-02	-5.076913e-02	1.576626e-02
## 942	1.702261e-01	0.112572292	-1.937310e-02	-1.636010e-02	4.444397e-02
## 943	1.296257e-01	0.069887057	-1.631646e-01	-1.604814e-01	-1.040512e-01
## 944	7.118762e-02	0.009028856	-2.284696e-01	-2.260723e-01	-7.537350e-02
## 945	3.604073e-02	-0.027423752	-2.719692e-01	-2.698265e-01	-2.079829e-02
## 946	2.418500e-02	0.060529234	-9.366363e-02	-9.174378e-02	5.967440e-02
## 947	2.963850e-02	0.066761861	-9.337175e-02	-9.137664e-02	-1.372552e-01
## 948	-1.114903e-01	-0.075816698	-1.236690e+00	-1.234683e+00	-1.085980e+00
## 949	-1.840387e-01	-0.150924721	-2.511883e-01	-2.486645e-01	-3.108043e-01
## 950	-2.073299e-01	-0.275330314	-3.729935e-01	-3.705014e-01	-3.367018e-01
## 951	-2.300926e-01	-0.199842584	-2.952717e-01	-2.931530e-01	-3.623699e-01
## 952	-2.533838e-01	-0.224248177	-5.170770e-01	-5.149898e-01	-4.882674e-01
## 953	-2.890591e-01	-0.260594108	-6.601037e-01	-6.579292e-01	-5.339216e-01
## 954	-3.192810e-01	-0.290707412	-7.028387e-01	-7.005014e-01	-7.765054e-01
## 955	-3.960851e-01	-0.369631902	-5.891841e-01	-5.867473e-01	-7.708842e-01
## 956	-4.605052e-01	-0.436616054	-6.543081e-01	-6.518907e-01	-7.455063e-01
## 957	-5.016340e-01	-0.479194613	-4.976267e-01	-4.951972e-01	-5.942308e-01



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## 958 -5.070875e-01 -0.485427241 -4.979186e-01 -4.955643e-01 -5.973012e-01
## 959 -6.125410e-01 -0.491659868 -1.098210e+00 -1.095931e+00 -1.300372e+00
## 960 -6.251741e-01 -0.606434608 -7.267656e-01 -7.239536e-01 -7.402580e-01
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## 973 -1.878797e-01 -0.154921532 -4.268855e-01 -4.233140e-01 -3.989200e-01
## 974 -2.235550e-01 -0.191267463 -3.699123e-01 -3.662534e-01 -3.445742e-01
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## 980 -3.547955e-02 -0.117757394 -1.004107e-01 -9.844517e-02 -1.137814e-01
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## 982 -1.259407e-01 -0.109424775 1.172400e-01 1.187071e-01 2.820129e-03
## 983 -9.721826e-02 -0.080867490 5.859797e-02 5.988575e-02 -5.610033e-02
## 984 -8.633352e-02 -0.070483171 7.844258e-02 7.959473e-02 -3.784788e-02
## 985 -1.754488e-01 -0.060098852 -1.712798e-03 -6.962886e-04 -1.959543e-02
## 986 -1.359730e-01 -0.018580630 4.104607e-02 4.237980e-02 2.777156e-02
## 987 -9.649715e-02 0.022937591 8.380493e-02 8.545589e-02 7.513856e-02
## 988 -5.702134e-02 0.064455813 2.656380e-02 2.853198e-02 2.250555e-02
## 989 -5.353832e-01 -0.312198931 -3.521907e-01 -3.498616e-01 -4.529546e-01
## 990 -4.123992e-01 -0.286801975 -4.287513e-01 -4.256985e-01 -5.267637e-01
## 991 -3.303905e-01 -0.304479259 -2.494476e-01 -2.460050e-01 -2.494442e-01
## 992 -3.125528e-01 -0.286306294 -4.279342e-01 -4.245353e-01 -4.266171e-01
## 993 -3.303905e-01 -0.304479259 -1.494476e-01 -1.460050e-01 -2.494442e-01
## 994 -4.180063e-01 -0.292538922 -4.282260e-01 -4.249025e-01 -4.296875e-01
## 995 -3.127064e-01 -0.285810612 -3.271171e-01 -3.233722e-01 -3.264704e-01
## 996 -3.127064e-01 -0.285810612 -2.271171e-01 -2.233722e-01 -2.264704e-01
## 997 -2.948687e-01 -0.267637647 -2.056037e-01 -2.019025e-01 -3.036433e-01
## 998 -3.003222e-01 -0.273870275 -1.058955e-01 -1.022696e-01 -2.067137e-01
## 999 -2.879380e-01 -0.261929937 1.153260e-01 1.188329e-01 1.304300e-02
## 1000 -1.398785e-01 -0.213643668 -1.204257e-01 -1.171251e-01 -1.215461e-01
## 1001 -2.451784e-01 -0.220371977 2.784653e-01 2.813446e-01 1.752368e-01
## 1002 -5.179281e+00 -5.153912743 -3.635773e+00 -3.633144e+00 -3.736525e+00
## 1003 -4.916264e+00 -4.886273619 -4.617666e+00 -4.615516e+00 -4.601213e+00
## 1004 -4.761846e+00 -4.830477455 -4.557428e+00 -4.555156e+00 -4.536756e+00
## 1005 -4.730565e+00 -4.799582565 -4.519812e+00 -4.517797e+00 -4.598342e+00
## 1006 -4.722576e+00 -4.693093268 -4.404002e+00 -4.402275e+00 -4.485826e+00
## 1007 -4.691823e+00 -4.662091701 -3.965913e+00 -3.964101e+00 -3.947643e+00
## 1008 -4.466429e+00 -4.433992679 -3.219966e+00 -3.218212e+00 -3.292253e+00
## 1009 -4.275513e+00 -4.239823427 -4.388601e+00 -4.387159e+00 -4.249001e+00
## 1010 -1.288774e+01 -13.751264507 -1.271481e+01 -1.271301e+01 -1.257353e+01
## 1011 -1.285854e+01 -13.231786027 -1.055376e+01 -1.055512e+01 -1.022281e+01

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## 1017 -1.030539e+01 -10.318659285 -1.165608e+01 -1.166069e+01 -1.182663e+01
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## 1019 -1.095258e+01 -11.178039421 -1.172086e+01 -1.172406e+01 -1.203667e+01
## 1020 -2.696386e+00 -1.827839509 -3.382169e+00 -3.385549e+00 -3.816325e+00
## 1021 -2.922963e+00 -2.646816267 -6.264275e+00 -6.263667e+00 -6.799394e+00
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## 1023 -3.160586e+00 -2.385864584 -2.307045e+00 -2.302532e+00 -2.571755e+00
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## 1026 -1.836021e+00 -1.636039242 -1.326583e+00 -1.317863e+00 -1.437367e+00
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## 1031 -9.226514e-01 -0.699429349 -3.185048e-01 -1.065185e-01 -1.588499e-01
## 1032 -6.423585e-01 -0.512695126 -1.248866e-01 8.940365e-02 5.727771e-02
## 1033 -3.852032e-01 -0.350862177 4.610914e-02 2.623258e-01 2.473612e-01
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## 1043 7.737097e-01 0.826092557 7.685865e-01 8.011893e-01 7.839105e-01
## 1044 1.050419e+00 1.101686964 1.046781e+00 7.793524e-01 7.580130e-01
## 1045 9.604456e-01 1.008764609 1.064283e+00 6.941776e-01 7.578239e-01
## 1046 8.897491e-01 0.935970897 1.005216e+00 6.315450e-01 7.819715e-01
## 1047 9.423437e-01 0.987582778 9.679544e-01 5.907492e-01 7.320166e-01
## 1048 6.767258e-01 0.720632689 8.088353e-01 6.281353e-01 6.588586e-01
## 1049 7.501090e-01 0.793127813 7.898865e-01 5.073796e-01 6.321579e-01
## 1050 8.067184e-01 0.849016645 9.509985e-01 5.658784e-01 5.837637e-01
## 1051 6.356470e-01 0.675833928 6.915875e-01 5.028974e-01 5.075353e-01
## 1052 1.908176e-01 0.229767082 1.507811e-01 4.603237e-01 4.576315e-01
## 1053 5.389120e-01 0.579332869 5.892725e-01 4.014952e-01 5.083439e-01
## 1054 2.177486e-01 0.258060621 2.706156e-01 3.811067e-01 4.847136e-01
## 1055 2.632671e-01 0.305305135 3.126520e-01 4.240562e-01 4.353750e-01
## 1056 8.549433e-02 0.128144055 3.288306e-02 4.451689e-01 4.601389e-01
## 1057 5.619084e-02 0.100937768 1.919498e-01 5.078015e-01 5.359912e-01
## 1058 3.410852e-01 0.388016500 3.745007e-01 5.929576e-01 6.334861e-01
## 1059 5.855397e-01 0.633694341 6.149629e-01 6.351830e-01 6.830138e-01
## 1060 4.855397e-01 0.533694341 6.149629e-01 6.351830e-01 6.830138e-01
## 1061 7.037522e-01 0.752256311 8.368205e-01 6.570010e-01 7.062170e-01
## 1062 9.775102e-01 1.025140440 1.018216e+00 6.365938e-01 6.798924e-01
## 1063 5.886012e-01 0.633784758 6.372916e-01 5.521431e-01 5.808368e-01
## 1064 6.663739e-01 0.710945837 8.170605e-01 5.310304e-01 5.560730e-01
## 1065 6.179047e-01 0.660991046 6.782248e-01 5.895105e-01 6.049845e-01

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## 1067	8.020039e-01	0.841741483	8.780074e-01	4.839557e-01	4.788522e-01
## 1068	5.127200e-01	0.549996796	5.967388e-01	4.991566e-01	3.794206e-01
## 1069	2.664518e-01	0.301974272	4.540140e-01	4.555103e-01	4.280071e-01
## 1070	3.839147e-01	0.419758233	3.751831e-01	4.766316e-01	4.504581e-01
## 1071	2.871797e-01	0.323257174	4.728682e-01	5.752294e-01	4.512667e-01
## 1072	3.032037e-01	0.339085458	4.921189e-01	5.952782e-01	4.722081e-01
## 1073	4.192278e-01	0.454913741	6.113697e-01	6.153269e-01	4.931494e-01
## 1074	4.130245e-01	0.447903104	5.103894e-01	7.142630e-01	5.893269e-01
## 1075	4.326885e-01	0.467619333	6.276694e-01	6.332580e-01	5.114529e-01
## 1076	3.264852e-01	0.360608696	5.266891e-01	6.321940e-01	5.076304e-01
## 1077	2.425093e-01	0.276436980	5.459398e-01	6.522428e-01	5.285718e-01
## 1078	2.767459e-01	0.310827233	4.870482e-01	5.941096e-01	5.727163e-01
## 1079	2.164359e-01	0.251450115	3.284485e-01	5.363436e-01	5.199312e-01
## 1080	3.605156e-01	0.396738951	5.685665e-01	5.782205e-01	5.690829e-01
## 1081	3.783533e-01	0.414911917	5.900799e-01	4.996902e-01	5.919100e-01
## 1082	3.976297e-01	0.435040560	5.135117e-01	5.222325e-01	6.162468e-01
## 1083	3.209209e-01	0.359446153	4.353169e-01	5.440693e-01	6.421443e-01
## 1084	4.664393e-01	0.506690667	6.773533e-01	4.870188e-01	5.928057e-01
## 1085	4.638634e-01	0.504369394	7.808982e-01	4.887968e-01	5.927546e-01
## 1086	4.572727e-01	0.497771171	7.860697e-01	4.912801e-01	5.911428e-01
## 1087	8.506820e-01	0.791172948	5.912411e-01	5.937635e-01	6.895311e-01
## 1088	7.961980e-01	0.734991356	6.248512e-01	4.271461e-01	5.197749e-01
## 1089	8.158468e-01	0.752082897	6.402009e-01	4.404698e-01	4.240702e-01
## 1090	6.118297e-01	0.544379841	4.334011e-01	3.316083e-01	3.020920e-01
## 1091	5.300397e-01	0.459515705	2.468323e-01	2.438595e-01	2.048776e-01
## 1092	4.522646e-01	0.378928520	2.586371e-01	1.554053e-01	1.092240e-01
## 1093	4.704747e-01	0.294064384	1.720684e-01	6.765644e-02	1.200961e-02
## 1094	4.655472e-01	0.084298974	-1.371227e-01	5.690764e-02	-1.124891e-02
## 1095	2.624389e-01	0.074296801	-3.530671e-01	1.413304e-01	6.411669e-02
## 1096	2.351128e-01	0.044711990	-3.074771e-01	-2.092418e-01	-2.812962e-01
## 1097	-1.617852e-01	-0.356499520	-3.199212e-01	-3.214014e-01	-4.014333e-01
## 1098	-3.080604e-01	-0.306302069	-3.651660e-01	-2.674013e-01	-3.535216e-01
## 1099	-4.044205e-01	-0.302414124	-3.671367e-01	-3.684551e-01	-4.523369e-01
## 1100	-3.994954e-01	-0.396074819	-3.663720e-01	-3.672732e-01	-4.494959e-01
## 1101	-3.994954e-01	-0.396074819	-3.663720e-01	-3.672732e-01	-4.494959e-01
## 1102	-3.994954e-01	-0.396074819	-3.663720e-01	-4.672732e-01	-5.494959e-01
## 1103	-5.213478e-01	-0.318524735	-3.862588e-01	-3.880375e-01	-4.738838e-01
## 1104	-7.932852e-01	-0.287284156	-3.628717e-01	-4.638556e-01	-5.449986e-01
## 1105	-5.176622e-01	-0.303789669	-2.915043e-01	-6.914381e-01	-7.623688e-01
## 1106	-5.587967e-01	-0.343786783	-4.258071e-01	-4.284953e-01	-5.078318e-01
## 1107	-5.303592e-01	-0.212157200	-3.020757e-01	-4.039650e-01	-4.785706e-01
## 1108	-5.010114e-01	-0.278465262	-2.759531e-01	-4.775475e-01	-5.480291e-01
## 1109	-3.984410e-01	-0.273562544	-2.704821e-01	-3.730761e-01	-4.447164e-01
## 1110	-3.971559e-01	-0.171111186	-2.677466e-01	-3.708404e-01	-4.430601e-01
## 1111	-3.909456e-01	-0.162320522	-2.642464e-01	-3.674228e-01	-4.385628e-01
## 1112	-3.847354e-01	-0.153529859	-2.607461e-01	-2.640052e-01	-3.340655e-01
## 1113	-2.566728e-01	-0.222289280	-2.373590e-01	-3.398233e-01	-4.051803e-01
## 1114	-2.785252e-01	-0.244739196	-2.572459e-01	-3.605876e-01	-4.295681e-01
## 1115	-4.003776e-01	-0.267189112	-2.771327e-01	-2.813519e-01	-3.539559e-01
## 1116	-3.772400e-01	-0.242287837	-2.545104e-01	-2.583519e-01	-3.279118e-01
## 1117	-2.541024e-01	-0.217386563	-2.318880e-01	-3.353520e-01	-4.018676e-01
## 1118	-2.759548e-01	-0.239836479	-2.517749e-01	-2.561162e-01	-3.262555e-01
## 1119	-2.759548e-01	-0.339836479	-2.517749e-01	-2.561162e-01	-3.262555e-01

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## 1120 -4.808799e-01 -0.346175783 -3.525396e-01 -2.572981e-01 -3.290965e-01
## 1121 -4.355150e-01 -0.298435588 -3.096862e-01 -4.131855e-01 -4.782884e-01
## 1122 -3.338550e-01 -0.295595224 -3.066064e-01 -4.106014e-01 -4.762560e-01
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## 1129 -2.323005e-01 -0.191857420 -2.967551e-01 -3.026374e-01 -3.714956e-01
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## 1161 -4.930348e-01 -0.370258240 -3.723865e-01 -3.765750e-01 -4.593409e-01
## 1162 -6.698973e-01 -0.345356965 -3.497641e-01 -4.535750e-01 -5.332968e-01
## 1163 -5.223369e-01 -0.293103057 -3.017839e-01 -5.053393e-01 -5.795521e-01
## 1164 -3.197666e-01 -0.288200340 -2.963129e-01 -5.008679e-01 -5.762395e-01
## 1165 -3.634714e-01 -0.333100172 -3.360866e-01 -3.423965e-01 -4.250151e-01
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## 1167 -4.634714e-01 -0.333100172 -3.360866e-01 -3.423965e-01 -4.250151e-01
## 1168 -4.403338e-01 -0.308198897 -3.134642e-01 -3.193965e-01 -3.989709e-01
## 1169 -3.171962e-01 -0.283297622 -2.908419e-01 -3.963965e-01 -4.729268e-01
## 1170 -1.390486e-01 -0.305747538 -3.107287e-01 -2.171608e-01 -2.973146e-01
## 1171 -1.634714e-01 -0.333100172 -3.360866e-01 -2.423965e-01 -3.250151e-01
## 1172 -8.789412e-02 -0.360452805 -3.614445e-01 -2.676322e-01 -3.527156e-01
## 1173 -3.545446e-02 -0.412706713 -4.094247e-01 -1.158678e-01 -2.064602e-01

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## 1175 -3.431655e-01 -0.427414866 -4.258377e-01 -2.292820e-01 -3.163982e-01
## 1176 -3.225983e-01 -0.407416308 -4.086863e-01 -2.107534e-01 -2.936667e-01
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## 1191 -5.650514e-02 -0.112317817 -1.035094e-01 -2.105453e-01 -2.749942e-01
## 1192 9.850488e-02 -0.159669007 -1.460186e-01 -5.430956e-02 -1.254261e-01
## 1193 5.094454e-02 -0.111922916 -1.939989e-01 9.745479e-02 2.082921e-02
## 1194 -4.798595e-02 -0.112937687 -2.014406e-01 9.192960e-02 1.870120e-02
## 1195 -1.237789e-01 -0.089051184 -1.862600e-01 9.404376e-03 -5.738265e-02
## 1196 -1.982866e-01 -0.062713323 -1.683439e-01 -7.088515e-02 -1.318102e-01
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## 1214 6.249673e-02 -0.205624667 -2.186914e-01 -1.205043e-01 -1.820519e-01
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## 1238 1.912139e-02 -0.122626953 -1.053121e-01 1.794289e-01 1.003950e-01
## 1239 -2.615966e-01 -0.005079754 -9.089620e-02 -4.278167e-03 -7.852986e-02
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## 1242 -5.041861e-01 -0.040147237 -1.413865e-01 -5.367874e-02 -1.191032e-01
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## 1244 7.347174e-02 -0.053423382 -6.659514e-02 -1.783287e-01 -2.340650e-01
## 1245 -1.942810e-01 -0.125286843 -3.138253e-02 5.525543e-02 -1.016505e-02
## 1246 -3.542160e-01 0.015725044 1.036196e-02 -2.162208e-03 -6.257407e-02
## 1247 -2.848033e-01 -0.009571132 7.822908e-02 -1.331623e-01 -1.844416e-01
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## 1258 5.248443e-02 0.141417330 1.626533e-01 4.151746e-02 -2.289790e-02
## 1259 -6.936797e-02 0.118967414 1.427664e-01 1.207532e-01 5.271428e-02
## 1260 -2.462304e-01 0.143868689 1.653888e-01 1.437532e-01 7.875843e-02
## 1261 -1.768177e-01 0.218572513 2.332559e-01 1.127531e-01 5.689089e-02
## 1262 7.074269e-02 0.270826421 2.812362e-01 6.098874e-02 1.063553e-02
## 1263 5.017546e-02 0.250827864 2.640848e-01 2.424602e-01 1.879040e-01
## 1264 7.331305e-02 0.275729138 2.867072e-01 2.654601e-01 2.139482e-01
## 1265 9.645063e-02 0.300630413 3.093295e-01 2.884601e-01 2.399924e-01
## 1266 1.195882e-01 0.325531688 3.319519e-01 3.114601e-01 2.660365e-01
## 1267 2.427258e-01 0.350432962 3.545743e-01 3.344601e-01 2.920807e-01
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## 1273 8.458302e-01 0.352647559 3.505565e-01 3.318673e-01 2.923611e-01
## 1274 7.070047e-01 -0.396760089 -3.851778e-01 1.938675e-01 7.360962e-01
## 1275 7.024643e-01 -0.412108302 -4.044280e-01 1.755648e-01 7.275346e-01
## 1276 5.979240e-01 -0.427456514 -4.236782e-01 1.572621e-01 7.189730e-01
## 1277 6.165212e-01 -0.417903452 -4.203061e-01 1.619593e-01 7.364556e-01
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## 1280 6.723127e-01 -0.389244265 -4.101897e-01 1.760511e-01 7.889032e-01
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## 1284	2.824226e-01	0.396161037	3.430508e-01	3.354328e-01	4.148180e-01
## 1285	3.055602e-01	0.421062311	3.656732e-01	3.584328e-01	4.408621e-01
## 1286	4.286978e-01	0.445963586	3.882956e-01	3.814327e-01	4.669063e-01
## 1287	4.286978e-01	0.445963586	3.882956e-01	3.814327e-01	4.669063e-01
## 1288	4.286978e-01	0.445963586	3.882956e-01	3.814327e-01	4.669063e-01
## 1289	4.286978e-01	0.445963586	3.882956e-01	3.814327e-01	4.669063e-01
## 1290	4.286978e-01	0.445963586	3.882956e-01	3.814327e-01	4.669063e-01
## 1291	3.286978e-01	0.445963586	3.882956e-01	3.814327e-01	4.669063e-01
## 1292	3.518354e-01	0.470864861	4.109180e-01	4.044327e-01	4.929504e-01
## 1293	1.749729e-01	0.495766135	4.335403e-01	4.274327e-01	4.189946e-01
## 1294	4.210945e-01	0.546064366	4.796022e-01	4.745958e-01	3.712295e-01
## 1295	3.976498e-01	0.522154454	4.586140e-01	4.539221e-01	4.454787e-01
## 1296	3.974962e-01	0.522650135	4.594311e-01	4.550853e-01	4.456254e-01
## 1297	3.973426e-01	0.523145816	4.602482e-01	4.562484e-01	4.457720e-01
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## 1299	3.970354e-01	0.524137179	4.618824e-01	4.585747e-01	4.460654e-01
## 1300	3.968818e-01	0.524632860	4.626995e-01	4.597379e-01	4.462120e-01
## 1301	4.967282e-01	0.525128542	4.635166e-01	4.609010e-01	4.463587e-01
## 1302	4.734371e-01	0.500722948	4.417113e-01	4.390642e-01	4.204612e-01
## 1303	6.501459e-01	0.476317355	4.199060e-01	4.172274e-01	4.945637e-01
## 1304	4.038707e-01	0.426514806	3.746613e-01	3.712274e-01	5.424754e-01
## 1305	4.271619e-01	0.450920399	3.964666e-01	3.930642e-01	4.683729e-01
## 1306	4.271619e-01	0.450920399	3.964666e-01	3.930642e-01	4.683729e-01
## 1307	4.271619e-01	0.450920399	3.964666e-01	3.930642e-01	4.683729e-01
## 1308	4.271619e-01	0.450920399	3.964666e-01	3.930642e-01	4.683729e-01
## 1309	4.271619e-01	0.450920399	3.964666e-01	3.930642e-01	4.683729e-01
## 1310	3.271619e-01	0.450920399	3.964666e-01	3.930642e-01	4.683729e-01
## 1311	3.502995e-01	0.475821674	4.190889e-01	4.160642e-01	4.944171e-01
## 1312	3.734371e-01	0.500722948	4.417113e-01	4.390642e-01	5.204612e-01
## 1313	2.965746e-01	0.525624223	4.643337e-01	4.620642e-01	5.465054e-01
## 1314	4.428498e-01	0.575426772	5.095784e-01	5.080641e-01	4.985937e-01
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## 1316	4.426962e-01	0.575922454	5.103955e-01	5.092273e-01	5.987403e-01
## 1317	4.658338e-01	0.600823728	5.330179e-01	5.322272e-01	6.247845e-01
## 1318	4.889714e-01	0.625725003	5.556403e-01	5.552272e-01	6.508286e-01
## 1319	5.121089e-01	0.650626278	5.782626e-01	5.782272e-01	6.768728e-01
## 1320	6.352465e-01	0.675527552	6.008850e-01	6.012272e-01	7.029169e-01
## 1321	6.352465e-01	0.675527552	6.008850e-01	6.012272e-01	7.029169e-01
## 1322	6.352465e-01	0.675527552	6.008850e-01	6.012272e-01	7.029169e-01
## 1323	7.352465e-01	0.675527552	6.008850e-01	6.012272e-01	7.029169e-01
## 1324	6.121089e-01	0.650626278	5.782626e-01	5.782272e-01	7.768728e-01
## 1325	5.354001e-01	0.675031871	6.000679e-01	6.000640e-01	7.027703e-01
## 1326	1.058538e+00	1.099933146	1.022690e+00	1.023064e+00	7.288144e-01
## 1327	9.638736e-01	1.000754754	9.340923e-01	9.343231e-01	1.023720e+00
## 1328	9.623741e-01	0.999198735	9.327154e-01	9.329295e-01	1.022216e+00
## 1329	9.608747e-01	0.997642716	9.313385e-01	9.315360e-01	1.020712e+00
## 1330	9.593753e-01	0.996086698	9.299616e-01	9.301424e-01	1.019207e+00
## 1331	9.578758e-01	0.994530679	9.285847e-01	9.287488e-01	1.017703e+00
## 1332	9.563764e-01	0.992974660	9.272078e-01	9.273552e-01	1.016199e+00
## 1333	9.548769e-01	0.991418642	9.258309e-01	9.259617e-01	1.014695e+00
## 1334	9.533775e-01	0.989862623	9.244540e-01	9.245681e-01	1.013190e+00
## 1335	7.518781e-01	0.988306604	9.230771e-01	9.231745e-01	1.011686e+00

## 1336	5.966538e-01	0.636553135	5.669449e-01	5.677809e-01	8.622702e-01
## 1337	6.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1338	6.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1339	6.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1340	6.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1341	6.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1342	6.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1343	6.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1344	6.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1345	8.432361e-01	0.685364322	6.105555e-01	6.114545e-01	7.140652e-01
## 1346	5.969610e-01	0.635561772	5.653107e-01	5.654546e-01	8.619769e-01
## 1347	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1348	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1349	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1350	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1351	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1352	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1353	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1354	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1355	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1356	4.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1357	6.898185e-01	0.734175508	6.541660e-01	6.551282e-01	4.658602e-01
## 1358	6.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1359	6.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1360	6.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1361	6.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1362	6.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1363	6.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1364	6.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1365	6.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1366	8.199450e-01	0.660958728	5.887502e-01	5.896177e-01	6.881677e-01
## 1367	5.736698e-01	0.611156179	5.435055e-01	5.436178e-01	9.360794e-01
## 1368	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1369	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	7.137719e-01
## 1370	6.435433e-01	0.684372959	6.089213e-01	6.091282e-01	6.137719e-01
## 1371	6.202521e-01	0.659967366	5.871160e-01	5.872914e-01	5.878744e-01
## 1372	5.969610e-01	0.635561772	5.653107e-01	5.654546e-01	5.619769e-01
## 1373	5.736698e-01	0.611156179	5.435055e-01	5.436178e-01	5.360794e-01
## 1374	4.503786e-01	0.586750586	5.217002e-01	5.217809e-01	5.101819e-01
## 1375	4.502250e-01	0.587246267	5.225173e-01	5.229441e-01	5.103286e-01
## 1376	4.500715e-01	0.587741948	5.233344e-01	5.241072e-01	5.104752e-01
## 1377	4.499179e-01	0.588237630	5.241515e-01	5.252704e-01	4.106219e-01
## 1378	2.264731e-01	0.564327718	5.031633e-01	5.045967e-01	3.848711e-01
## 1379	4.493035e-01	0.590220355	5.274199e-01	5.299230e-01	2.112085e-01
## 1380	3.792764e-01	0.517499256	4.628212e-01	4.655756e-01	4.336627e-01
## 1381	3.791228e-01	0.517994937	4.636383e-01	4.667388e-01	4.338094e-01
## 1382	3.789692e-01	0.518490619	4.644554e-01	4.679019e-01	4.339560e-01
## 1383	3.788157e-01	0.518986300	4.652725e-01	4.690651e-01	4.341027e-01
## 1384	4.786621e-01	0.519481981	4.660896e-01	4.702282e-01	4.342494e-01
## 1385	4.553709e-01	0.495076388	4.442843e-01	4.483914e-01	4.083519e-01
## 1386	4.320797e-01	0.470670795	4.224790e-01	4.265546e-01	3.824544e-01
## 1387	4.087886e-01	0.446265201	4.006737e-01	4.047178e-01	4.565569e-01
## 1388	6.087886e-01	0.446265201	4.006737e-01	4.047178e-01	4.565569e-01
## 1389	3.625134e-01	0.396462652	3.554290e-01	3.587178e-01	6.044686e-01



## 1390	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1391	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1392	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1393	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1394	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1395	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1396	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1397	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1398	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1399	3.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1400	4.322333e-01	0.470175113	4.216619e-01	4.253914e-01	2.823077e-01
## 1401	3.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1402	3.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1403	3.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1404	3.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1405	3.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1406	3.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1407	3.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1408	3.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1409	4.856510e-01	0.421363927	3.780514e-01	3.817178e-01	4.305127e-01
## 1410	3.625134e-01	0.396462652	3.554290e-01	3.587178e-01	6.044686e-01
## 1411	4.090957e-01	0.445273839	3.990395e-01	2.023915e-01	4.562636e-01
## 1412	4.119733e-01	0.449185194	4.028763e-01	2.045366e-01	4.592829e-01
## 1413	4.148508e-01	0.453096548	4.067131e-01	2.066816e-01	4.623023e-01
## 1414	4.177283e-01	0.457007903	4.105499e-01	4.088267e-01	4.653216e-01
## 1415	4.177283e-01	0.457007903	4.105499e-01	3.088267e-01	4.653216e-01
## 1416	4.191671e-01	0.458963581	4.124683e-01	4.098993e-01	4.668313e-01
## 1417	4.191671e-01	0.458963581	4.124683e-01	4.098993e-01	4.668313e-01
## 1418	4.191671e-01	0.458963581	4.124683e-01	4.098993e-01	4.668313e-01
## 1419	3.191671e-01	0.458963581	4.124683e-01	4.098993e-01	4.668313e-01
## 1420	4.423047e-01	0.483864855	4.350907e-01	4.328993e-01	3.928754e-01
## 1421	4.190135e-01	0.459459262	4.132854e-01	6.110624e-01	4.669779e-01
## 1422	4.161360e-01	0.455547907	4.094486e-01	6.089173e-01	4.639586e-01
## 1423	4.132585e-01	0.451636552	4.056118e-01	6.067722e-01	4.609392e-01
## 1424	4.103809e-01	0.447725198	4.017750e-01	4.046272e-01	4.579199e-01
## 1425	4.103809e-01	0.447725198	4.017750e-01	5.046272e-01	4.579199e-01
## 1426	4.089422e-01	0.445769520	3.998566e-01	4.035546e-01	4.564102e-01
## 1427	4.089422e-01	0.445769520	3.998566e-01	4.035546e-01	4.564102e-01
## 1428	4.089422e-01	0.445769520	3.998566e-01	4.035546e-01	4.564102e-01
## 1429	5.089422e-01	0.445769520	3.998566e-01	4.035546e-01	4.564102e-01
## 1430	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	5.303661e-01
## 1431	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1432	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1433	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1434	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1435	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1436	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1437	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1438	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1439	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1440	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	3.562636e-01
## 1441	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01
## 1442	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01
## 1443	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01

## 1444	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01
## 1445	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01
## 1446	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01
## 1447	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01
## 1448	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01
## 1449	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	4.303661e-01
## 1450	3.858046e-01	0.420868245	3.772343e-01	3.805546e-01	5.303661e-01
## 1451	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1452	4.090957e-01	0.445273839	3.990395e-01	4.023915e-01	4.562636e-01
## 1453	4.090957e-01	0.445273839	3.990395e-01	3.023915e-01	4.562636e-01
## 1454	4.105345e-01	0.447229516	4.009579e-01	4.034640e-01	4.577732e-01
## 1455	4.105345e-01	0.447229516	4.009579e-01	4.034640e-01	4.577732e-01
## 1456	5.105345e-01	0.447229516	4.009579e-01	4.034640e-01	4.577732e-01
## 1457	1.873969e-01	0.422328242	6.783356e-01	6.804640e-01	4.317291e-01
## 1458	2.173116e-01	0.453432908	7.227047e-01	6.253626e-01	1.746062e-01
## 1459	1.787915e-01	0.413276471	7.035764e-01	6.058232e-01	1.413005e-01
## 1460	1.402715e-01	0.373120034	6.844481e-01	5.862838e-01	1.079949e-01
## 1461	1.017514e-01	0.332963598	6.653198e-01	5.667444e-01	7.468919e-02
## 1462	6.323132e-02	0.292807161	5.461915e-01	5.472050e-01	4.138352e-02
## 1463	2.872599e-02	0.256927675	6.254366e-01	6.269602e-01	9.638568e-03
## 1464	-1.123285e-02	0.214815561	6.043899e-01	5.063483e-01	-2.517678e-02
## 1465	-4.975292e-02	0.174659124	5.852616e-01	4.868089e-01	-5.848245e-02
## 1466	-1.882730e-01	0.134502687	5.661333e-01	4.672695e-01	-9.178813e-02
## 1467	9.634453e-02	0.119247525	2.696274e-01	1.707301e-01	-9.904965e-02
## 1468	2.790979e-02	0.047986423	2.061300e-01	2.062922e-01	1.247676e-01
## 1469	2.790979e-02	0.047986423	2.061300e-01	2.062922e-01	1.247676e-01
## 1470	2.790979e-02	0.047986423	2.061300e-01	2.062922e-01	1.247676e-01
## 1471	2.790979e-02	0.047986423	2.061300e-01	2.062922e-01	1.247676e-01
## 1472	2.790979e-02	0.047986423	3.061300e-01	2.062922e-01	1.247676e-01
## 1473	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1474	2.389506e-02	-0.056290528	2.077565e-01	2.069976e-01	1.232068e-01
## 1475	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1476	1.897001e-02	-0.062629832	2.069918e-01	2.058157e-01	1.203658e-01
## 1477	1.404496e-02	0.031030863	2.062270e-01	2.046338e-01	1.175248e-01
## 1478	1.404496e-02	-0.068969137	2.062270e-01	2.046338e-01	1.175248e-01
## 1479	9.119913e-03	-0.075308441	2.054623e-01	2.034519e-01	1.146839e-01
## 1480	4.194865e-03	0.018352255	2.046975e-01	2.022700e-01	1.118429e-01
## 1481	4.194865e-03	0.018352255	2.046975e-01	2.022700e-01	1.118429e-01
## 1482	4.194865e-03	0.018352255	2.046975e-01	2.022700e-01	1.118429e-01
## 1483	4.194865e-03	0.018352255	2.046975e-01	2.022700e-01	1.118429e-01
## 1484	4.194865e-03	0.118352255	2.046975e-01	2.022700e-01	1.118429e-01
## 1485	9.119913e-03	0.024691559	2.054623e-01	2.034519e-01	1.146839e-01
## 1486	9.119913e-03	0.124691559	2.054623e-01	2.034519e-01	1.146839e-01
## 1487	1.404496e-02	0.031030863	2.062270e-01	2.046338e-01	1.175248e-01
## 1488	1.404496e-02	0.031030863	2.062270e-01	2.046338e-01	1.175248e-01
## 1489	1.404496e-02	0.131030863	2.062270e-01	2.046338e-01	1.175248e-01
## 1490	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1491	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1492	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1493	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1494	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1495	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1496	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1497	1.897001e-02	0.037370168	2.069918e-01	2.058157e-01	1.203658e-01

## 1498	1.897001e-02	0.137370168	2.069918e-01	2.058157e-01	1.203658e-01
## 1499	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1500	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1501	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1502	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1503	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1504	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1505	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1506	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1507	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1508	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1509	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1510	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1511	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1512	2.389506e-02	0.043709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1513	2.523895e+00	2.543709472	2.077565e-01	2.069976e-01	1.232068e-01
## 1514	2.068582e+00	2.079660217	2.161316e+00	2.161545e+00	2.043128e+00
## 1515	2.059210e+00	1.969935100	2.152710e+00	2.152836e+00	2.033726e+00
## 1516	2.044914e+00	1.853870679	2.143340e+00	2.142944e+00	2.021484e+00
## 1517	2.025692e+00	1.731466953	2.133205e+00	2.131870e+00	2.006400e+00
## 1518	2.001546e+00	1.702723923	2.122305e+00	2.119615e+00	1.988475e+00
## 1519	1.977399e+00	1.773980893	2.111405e+00	2.107359e+00	1.970551e+00
## 1520	1.958177e+00	1.751577167	2.101270e+00	2.096286e+00	1.955467e+00
## 1521	1.938956e+00	1.729173442	2.091135e+00	2.085212e+00	1.940384e+00
## 1522	1.919734e+00	1.606769716	2.081000e+00	2.074138e+00	1.925300e+00
## 1523	-6.044125e-01	-0.721973314	2.070100e+00	2.061883e+00	1.907375e+00
## 1524	-1.633958e-01	-0.173988479	1.071699e-01	9.744309e-02	-2.478812e-02
## 1525	-1.633958e-01	-0.073988479	1.071699e-01	9.744309e-02	-2.478812e-02
## 1526	-1.584707e-01	0.032350825	1.079347e-01	9.862498e-02	-2.194713e-02
## 1527	-1.486206e-01	0.145029434	1.094642e-01	1.009888e-01	-1.626515e-02
## 1528	-1.338455e-01	0.164047347	1.117584e-01	1.045344e-01	-7.742173e-03
## 1529	-1.190704e-01	0.083065260	1.140527e-01	1.080801e-01	7.808014e-04
## 1530	-1.092203e-01	0.095743869	1.155822e-01	1.104439e-01	6.462784e-03
## 1531	-9.937016e-02	0.008422478	1.171117e-01	1.128077e-01	1.214477e-02
## 1532	-9.444512e-02	0.114761783	1.178764e-01	1.139896e-01	1.498576e-02
## 1533	-8.459502e-02	-0.072559608	1.194059e-01	1.163533e-01	2.066774e-02
## 1534	2.154050e-01	0.227440392	1.194059e-01	2.163533e-01	2.066774e-02
## 1535	1.593286e-01	0.069798803	-2.480853e-01	-1.501735e-01	-1.504514e-01
## 1536	9.139653e-02	0.000110201	-3.372710e-01	-2.386176e-01	-3.410979e-01
## 1537	1.732724e-04	-0.093983995	-4.482619e-01	-3.488985e-01	-5.576418e-01
## 1538	-1.143412e-01	-0.212483784	-5.810581e-01	-4.810163e-01	-8.000833e-01
## 1539	-2.521467e-01	-0.355389167	-7.356596e-01	-6.349709e-01	-8.684222e-01
## 1540	-3.666612e-01	-0.473888956	-8.684558e-01	-7.670886e-01	-1.010864e+00
## 1541	-4.811756e-01	-0.492388745	-1.001252e+00	-8.992064e-01	-1.153305e+00
## 1542	-5.907650e-01	-0.604549230	-1.133283e+00	-1.030142e+00	-1.192906e+00
## 1543	-6.770632e-01	-0.692304121	-1.243510e+00	-1.139241e+00	-1.306609e+00
## 1544	-1.063361e+00	-1.180059013	-1.353736e+00	-1.348340e+00	-1.420311e+00
## 1545	-1.098508e+00	-1.116511620	-1.097235e+00	-1.092095e+00	-1.165736e+00
## 1546	-1.075217e+00	-1.092106027	-1.075430e+00	-1.070258e+00	-1.039839e+00
## 1547	-1.028635e+00	-1.043294840	-1.031820e+00	-1.026584e+00	-8.880438e-01
## 1548	4.041239e+00	4.029921940	4.033596e+00	4.038926e+00	4.189649e+00
## 1549	4.092369e+00	4.083688486	4.081801e+00	4.087017e+00	4.048538e+00
## 1550	4.096917e+00	4.088643846	4.086395e+00	4.091434e+00	4.055632e+00
## 1551	4.101466e+00	4.093599206	4.090989e+00	4.095851e+00	4.062726e+00

## 1552	4.106014e+00	4.098554566	4.095583e+00	4.100269e+00	3.969821e+00
## 1553	4.087271e+00	4.079104332	4.078372e+00	4.082849e+00	4.051018e+00
## 1554	4.091819e+00	4.084059692	4.082966e+00	4.087266e+00	4.058112e+00
## 1555	4.096367e+00	4.089015052	4.087560e+00	4.091683e+00	3.965206e+00
## 1556	4.077624e+00	4.069564819	4.070348e+00	4.074263e+00	3.946403e+00
## 1557	4.058881e+00	4.050114585	4.053137e+00	4.056844e+00	3.827600e+00
## 1558	-9.831530e-01	-0.993741242	-9.858795e-01	-1.082413e+00	-1.117101e+00
## 1559	-9.817142e-01	-0.991785564	-1.083961e+00	-1.081340e+00	-1.115591e+00
## 1560	-9.762607e-01	-0.985552937	-1.083669e+00	-1.080973e+00	-1.112521e+00
## 1561	-9.708072e-01	-0.979320309	-1.083377e+00	-1.080606e+00	-1.109451e+00
## 1562	-9.653537e-01	-0.973087681	-1.083085e+00	-1.080239e+00	-1.106380e+00
## 1563	-9.599002e-01	-0.966855053	-1.082794e+00	-1.079872e+00	-1.203310e+00
## 1564	-9.777379e-01	-0.985028019	-1.104307e+00	-1.101341e+00	-1.226137e+00
## 1565	-9.955756e-01	-1.003200984	-1.125820e+00	-1.022811e+00	-1.248964e+00
## 1566	-1.014852e+00	-1.023329627	-1.049252e+00	-1.045353e+00	-1.173301e+00
## 1567	-1.014852e+00	-1.023329627	-1.149252e+00	-1.145353e+00	-1.173301e+00
## 1568	-1.009399e+00	-1.017097000	-1.148960e+00	-1.044986e+00	-1.270230e+00
## 1569	-1.028675e+00	-1.037225643	-1.172392e+00	-1.167528e+00	-1.194567e+00
## 1570	-1.023221e+00	-1.030993015	-1.072100e+00	-1.167161e+00	-1.291497e+00
## 1571	-1.045074e+00	-1.053442931	-1.191987e+00	-1.187926e+00	-1.415885e+00
## 1572	-1.086203e+00	-1.096021490	-1.335306e+00	-1.331232e+00	-1.564609e+00
## 1573	-1.145169e+00	-1.156773014	-1.400138e+00	-1.496008e+00	-1.636161e+00
## 1574	-1.202697e+00	-1.215568861	-1.563051e+00	-1.659712e+00	-1.906203e+00
## 1575	-1.301354e+00	-1.316943267	-1.969284e+00	-2.166722e+00	-2.524970e+00
## 1576	-1.498667e+00	-1.519692079	-2.281748e+00	-2.380743e+00	-2.762503e+00
## 1577	5.808035e+00	5.781836060	4.904160e+00	4.904532e+00	4.601525e+00
## 1578	5.613928e+00	5.582871392	4.684431e+00	4.684808e+00	4.464806e+00
## 1579	5.443112e+00	5.408312317	4.586507e+00	4.586921e+00	4.253984e+00
## 1580	5.266843e+00	5.227520614	4.288291e+00	4.388666e+00	4.140092e+00
## 1581	5.117879e+00	5.075411456	4.110254e+00	4.211544e+00	3.953658e+00
## 1582	4.968916e+00	4.923302297	4.132217e+00	4.134421e+00	4.067224e+00
## 1583	4.880358e+00	4.833900340	4.320930e+00	4.423147e+00	4.353852e+00
## 1584	4.867165e+00	4.821467196	4.594070e+00	4.697046e+00	4.733349e+00
## 1585	4.930776e+00	4.887958541	4.953556e+00	5.057191e+00	5.107224e+00
## 1586	5.047901e+00	5.008968784	4.777582e+00	4.881746e+00	5.049581e+00
## 1587	-2.365197e+00	-2.400134277	-2.241127e+00	-2.236272e+00	-2.150646e+00
## 1588	-2.223973e+00	-2.254225635	-2.089657e+00	-1.984883e+00	-1.781645e+00
## 1589	-2.037605e+00	-2.061461483	-1.796496e+00	-1.790893e+00	-1.562359e+00
## 1590	-1.855252e+00	-1.872974282	-1.601708e+00	-1.596197e+00	-1.344634e+00
## 1591	-1.672899e+00	-1.684487081	-1.306920e+00	-1.401501e+00	-1.126908e+00
## 1592	-1.494560e+00	-1.500276830	-1.210505e+00	-1.206100e+00	-1.110744e+00
## 1593	-1.358790e+00	-1.360600816	-1.359328e+00	-1.355078e+00	-1.244813e+00
## 1594	-1.276532e+00	-1.275443698	-1.472690e+00	-1.468465e+00	-1.447364e+00
## 1595	-1.253241e+00	-1.251038105	-1.450885e+00	-1.446628e+00	-1.321466e+00
## 1596	-1.206659e+00	-1.202226918	-1.107275e+00	-1.102955e+00	-1.069671e+00
## 1597	-1.129854e+00	-1.123302428	-1.220929e+00	-1.216709e+00	-1.175293e+00
## 1598	-1.088726e+00	-1.080723869	-1.177610e+00	-1.273402e+00	-1.326568e+00
## 1599	-1.092740e+00	-1.085000819	-1.275984e+00	-1.272697e+00	-1.428129e+00
## 1600	-1.116031e+00	-1.109406413	-1.397789e+00	-1.294534e+00	-1.454026e+00
## 1601	-1.135308e+00	-1.129535056	-1.421221e+00	-1.417076e+00	-1.478363e+00
## 1602	-1.153146e+00	-1.147708021	-1.442734e+00	-1.338545e+00	-1.401190e+00
## 1603	-1.149131e+00	-1.143431071	-1.444361e+00	-1.339251e+00	-1.499629e+00
## 1604	-1.168407e+00	-1.163559714	-1.367793e+00	-1.361793e+00	-1.423966e+00
## 1605	6.331593e+00	6.336440286	6.032207e+00	6.038207e+00	6.076034e+00

## 1606	6.208932e+00	6.213497564	6.006682e+00	6.012444e+00	5.850899e+00
## 1607	6.257901e+00	6.260305625	5.959404e+00	5.964826e+00	5.897173e+00
## 1608	6.211949e+00	6.212957309	6.012074e+00	6.117227e+00	6.046141e+00
## 1609	6.205687e+00	6.206231875	6.106144e+00	6.111862e+00	6.042324e+00
## 1610	6.195410e+00	6.195229490	6.201841e+00	6.107202e+00	6.036946e+00
## 1611	6.181118e+00	6.179950155	6.099164e+00	6.103248e+00	6.030008e+00
## 1612	6.170842e+00	6.168947770	6.094860e+00	5.998588e+00	5.924630e+00
## 1613	6.138712e+00	6.135495470	6.070670e+00	5.973164e+00	5.994865e+00
## 1614	6.129874e+00	6.126448762	5.968285e+00	5.969576e+00	5.890997e+00
## 1615	-1.398240e+00	-1.402726588	-1.457532e+00	-1.456553e+00	-1.637208e+00
## 1616	-1.303694e+00	-1.308959216	-1.457824e+00	-1.456920e+00	-1.540279e+00
## 1617	-1.404068e+00	-1.409348220	-1.458168e+00	-1.457269e+00	-1.540655e+00
## 1618	-1.386231e+00	-1.391175255	-1.536655e+00	-1.635799e+00	-1.717828e+00
## 1619	-1.408083e+00	-1.413625171	-1.656542e+00	-1.656563e+00	-1.642215e+00
## 1620	-1.402630e+00	-1.407392543	-1.656250e+00	-1.656196e+00	-1.739145e+00
## 1621	-1.420467e+00	-1.425565509	-1.577763e+00	-1.577666e+00	-1.661972e+00
## 1622	-1.420467e+00	-1.425565509	-1.577763e+00	-1.577666e+00	-1.661972e+00
## 1623	-1.420467e+00	-1.425565509	-1.577763e+00	-1.577666e+00	-1.861972e+00
## 1624	-1.467050e+00	-1.474376695	-1.621374e+00	-1.621340e+00	-1.813767e+00
## 1625	-1.490341e+00	-1.498782289	-1.643179e+00	-1.643176e+00	-1.739665e+00
## 1626	-1.490341e+00	-1.498782289	-1.643179e+00	-1.643176e+00	-1.739665e+00
## 1627	-1.490341e+00	-1.498782289	-1.643179e+00	-1.643176e+00	-1.839665e+00
## 1628	-1.513632e+00	-1.523187882	-1.664984e+00	-1.665013e+00	-1.765562e+00
## 1629	-1.513632e+00	-1.623187882	-1.664984e+00	-1.665013e+00	-1.765562e+00
## 1630	-1.518557e+00	-1.529527186	-1.665749e+00	-1.666195e+00	-1.668403e+00
## 1631	-1.495266e+00	-1.505121593	-1.643944e+00	-1.644358e+00	-1.642506e+00
## 1632	-1.471975e+00	-1.480716000	-1.622139e+00	-1.622522e+00	-1.616608e+00
## 1633	-1.448684e+00	-1.456310406	-1.600333e+00	-1.600685e+00	-1.590711e+00
## 1634	-1.425392e+00	-1.431904813	-1.578528e+00	-1.578848e+00	-1.564813e+00
## 1635	-1.402101e+00	-1.407499220	-1.556723e+00	-1.557011e+00	-1.638916e+00
## 1636	-1.402101e+00	-1.407499220	-1.556723e+00	-1.557011e+00	-1.638916e+00
## 1637	-1.402101e+00	-1.407499220	-1.556723e+00	-1.557011e+00	-1.638916e+00
## 1638	-1.402101e+00	-1.407499220	-1.556723e+00	-1.557011e+00	-1.838916e+00
## 1639	-1.448684e+00	-1.356310406	-1.600333e+00	-1.600685e+00	-1.790711e+00
## 1640	-1.467050e+00	-1.474376695	-1.621374e+00	-1.621340e+00	-1.913767e+00
## 1641	-1.513632e+00	-1.523187882	-1.664984e+00	-1.665013e+00	-1.965562e+00
## 1642	-1.560214e+00	-1.571999069	-1.808595e+00	-1.808687e+00	-2.117357e+00
## 1643	-1.624634e+00	-1.638983221	-1.873719e+00	-1.873830e+00	-2.191979e+00
## 1644	5.810946e+00	5.794032627	5.461157e+00	5.461026e+00	5.133399e+00
## 1645	5.700573e+00	5.679700159	5.248703e+00	5.348284e+00	5.007745e+00
## 1646	5.594216e+00	5.569644641	5.134622e+00	5.234836e+00	4.883652e+00
## 1647	5.487859e+00	5.459589124	5.020541e+00	5.021388e+00	4.659558e+00
## 1648	5.359649e+00	5.327083690	4.886574e+00	4.887175e+00	4.611077e+00
## 1649	5.254730e+00	5.218983850	4.674411e+00	4.674800e+00	4.188494e+00
## 1650	5.085391e+00	5.043899857	4.497125e+00	4.497281e+00	4.291288e+00
## 1651	4.985926e+00	4.942032645	4.485255e+00	4.585273e+00	4.371775e+00
## 1652	4.926151e+00	4.880788314	4.714784e+00	4.715498e+00	4.799476e+00
## 1653	4.967910e+00	4.924829744	4.754383e+00	4.754879e+00	4.948964e+00
## 1654	-2.467040e+00	-2.506723233	-2.584212e+00	-2.583903e+00	-2.275651e+00
## 1655	-2.332746e+00	-2.366522301	-2.353673e+00	-2.453249e+00	-2.123336e+00
## 1656	-2.202467e+00	-2.230598319	-2.221506e+00	-2.321890e+00	-1.972583e+00
## 1657	-2.072189e+00	-2.094674337	-2.089340e+00	-2.090531e+00	-1.821829e+00
## 1658	-1.943349e+00	-1.960706033	-1.959092e+00	-1.960244e+00	-1.672585e+00
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## 1660 -1.644540e+00 -1.650190865 -1.555278e+00 -1.556364e+00 -1.225372e+00
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## 1666 -1.600495e+00 -1.606181546 -1.789403e+00 -1.791617e+00 -2.161521e+00
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## 1668 -1.693660e+00 -1.703803920 -1.876624e+00 -1.878964e+00 -1.965111e+00
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## 1671 -1.675293e+00 -1.685737631 -1.855584e+00 -1.758309e+00 -1.842055e+00
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## 1673 5.869850e+00 5.861117878 5.686109e+00 5.784292e+00 5.808230e+00
## 1674 5.886879e+00 5.878798037 5.701984e+00 5.800764e+00 5.930311e+00
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## 1678 5.912730e+00 5.906574519 5.727630e+00 5.726194e+00 5.571367e+00
## 1679 5.861324e+00 5.852993576 5.680007e+00 5.678227e+00 5.517264e+00
## 1680 5.809918e+00 5.899412632 5.832385e+00 5.830261e+00 5.563162e+00
## 1681 5.775822e+00 5.764111331 5.806749e+00 5.704579e+00 5.631657e+00
## 1682 5.761530e+00 5.748831996 5.804072e+00 5.800625e+00 5.524719e+00
## 1683 -1.777491e+00 -1.792808610 -1.822328e+00 -1.926239e+00 -2.009627e+00
## 1684 -1.781506e+00 -1.797085561 -1.820702e+00 -1.925534e+00 -2.011187e+00
## 1685 -1.785521e+00 -1.801362511 -1.819075e+00 -1.824828e+00 -1.812748e+00
## 1686 -1.744392e+00 -1.758783952 -1.775757e+00 -1.781522e+00 -1.864023e+00
## 1687 -1.726554e+00 -1.740610987 -1.754243e+00 -1.760052e+00 -1.741196e+00
## 1688 -1.685425e+00 -1.698032428 -1.610925e+00 -1.616746e+00 -1.692472e+00
## 1689 -1.649750e+00 -1.661686497 -1.567898e+00 -1.573806e+00 -1.646818e+00
## 1690 -1.614075e+00 -1.625340565 -1.524871e+00 -1.530867e+00 -1.601163e+00
## 1691 -1.578399e+00 -1.588994634 -1.581844e+00 -1.587928e+00 -1.655509e+00
## 1692 -1.560562e+00 -1.570821669 -1.560331e+00 -1.566458e+00 -1.632682e+00
## 1693 -1.542724e+00 -1.552648703 -1.438817e+00 -1.444988e+00 -1.609855e+00
## 1694 -1.530340e+00 -1.540708366 -1.517596e+00 -1.523886e+00 -1.690098e+00
## 1695 -1.535793e+00 -1.546940993 -1.617888e+00 -1.624253e+00 -1.693169e+00
## 1696 -1.535793e+00 -1.546940993 -1.617888e+00 -1.624253e+00 -1.593169e+00
## 1697 -1.512502e+00 -1.522535400 -1.596082e+00 -1.602416e+00 -1.667271e+00
## 1698 -1.512502e+00 -1.522535400 -1.696082e+00 -1.702416e+00 -1.667271e+00
## 1699 -1.507049e+00 3.483697228 -1.695791e+00 -1.702049e+00 -1.764201e+00
## 1700 -1.278634e+00 3.782489484 -1.879066e+00 -1.864424e+00 -1.744978e+00
## 1701 3.937397e+00 4.069341403 3.316436e+00 3.352098e+00 3.554487e+00
## 1702 3.924107e+00 4.056123797 3.399517e+00 3.435046e+00 3.638755e+00
## 1703 3.928655e+00 4.061079157 3.304111e+00 3.339463e+00 3.445849e+00
## 1704 3.892075e+00 4.023455958 3.265386e+00 3.300574e+00 3.504219e+00
## 1705 3.878785e+00 4.010238352 3.348467e+00 3.383521e+00 3.488486e+00
## 1706 3.860042e+00 3.990788119 3.331255e+00 3.366101e+00 3.469683e+00
## 1707 3.841299e+00 3.971337885 3.314044e+00 3.348682e+00 3.450879e+00
## 1708 3.822556e+00 3.951887652 3.296833e+00 3.431262e+00 3.432076e+00
## 1709 3.802375e+00 -1.069518259 3.277703e+00 3.312770e+00 3.411763e+00
## 1710 3.537379e+00 -1.405933715 3.222255e+00 3.236255e+00 3.250910e+00
## [[1]]
##
## EFFR OBFR TGCR BGCR SOFR
## EFFR 1.23137580 0.24901275 0.226223710 0.229999766 0.26044154

```

```

## OBFR    -0.04925048  0.93660696 -0.007647507 -0.011818915 -0.02840991
## TGCR     0.04014730  0.04276950  0.983734763 -0.007054103  0.01560722
## BGCR     0.01438766  0.01955677  0.019184006  1.010725462  0.01509671
## SOFR    -0.23291169 -0.24405593 -0.218052721 -0.218368269  0.74102509
## ones_v  -0.19185527 -0.23058177 -0.214540065 -0.224705895 -0.21902513
##
## [[2]]
##           [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.043792629 0.04373157 0.04844488 0.04851112 0.05177516
## [2,] 0.035676752 0.03578214 0.03475137 0.03485058 0.03931118
## [3,] 0.038542014 0.03947262 0.04355668 0.04563961 0.04643665
## [4,] 0.008950011 0.01483403 0.01674250 0.02088982 0.01114657
## [5,] 0.043254944 0.04240316 0.04657018 0.04668180 0.05085763
## [6,] 0.066767796 0.07800627 0.07817091 0.07787140 0.06907146
##
## [[3]]
##           EFFR      OBFR      TGCR      BGCR      SOFR
## [1,] 0.9999998 0.9999998 0.9999998 0.9999998 0.9999998
##
## [[4]]
##           EFFR      OBFR      TGCR      BGCR      SOFR
## [1,] 0.9999998 0.9999998 0.9999998 0.9999998 0.9999998
##
## [[5]]
##           EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR    1.917794e-03 -1.129808e-03  1.161093e-03 -5.651267e-05 -1.884219e-03
## OBFR    -1.129808e-03  1.272831e-03 -1.339129e-03  8.356081e-05  1.106221e-03
## TGCR     1.161093e-03 -1.339129e-03  1.485487e-03 -1.534834e-04 -1.145250e-03
## BGCR    -5.651267e-05  8.356081e-05 -1.534834e-04  8.010269e-05  4.415403e-05
## SOFR    -1.884219e-03  1.106221e-03 -1.145250e-03  4.415403e-05  1.870990e-03
## ones_v  -5.154717e-04  2.431646e-04 -3.603101e-05 -1.021566e-04  3.844043e-04
##           ones_v      EFFR      OBFR      TGCR      BGCR
## EFFR    -5.154717e-04  0.0019124499 -0.0011497667  0.0011722695 -1.336647e-04
## OBFR     2.431646e-04 -0.0011497667  0.0012803616 -0.0013373218  1.534337e-04
## TGCR    -3.603101e-05  0.0011722695 -0.0013373218  0.0015580878 -2.829499e-04
## BGCR    -1.021566e-04 -0.0001336647  0.0001534337 -0.0002829499  2.200485e-04
## SOFR     3.844043e-04 -0.0017915785  0.0010460389 -0.0010999500  3.924294e-05
## ones_v  4.457939e-03 -0.0008485326  0.0005227661 -0.0003780788  3.161250e-04
##           SOFR      ones_v      EFFR      OBFR      TGCR
## EFFR    -1.791578e-03 -0.0008485326  2.346906e-03 -1.281439e-04 -5.102455e-05
## OBFR     1.046039e-03  0.0005227661 -1.281439e-04  1.207658e-03 -1.434496e-03
## TGCR    -1.099950e-03 -0.0003780788 -5.102455e-05 -1.434496e-03  1.897185e-03
## BGCR     3.924294e-05  0.0003161250  2.015384e-05  3.086132e-04 -5.021223e-04
## SOFR     1.798028e-03  0.0003555018 -2.192379e-03  3.133302e-05  1.120624e-04
## ones_v  3.555018e-04  0.0060849779 -5.429186e-04  1.468123e-04  9.346819e-06
##           BGCR      SOFR      ones_v      EFFR      OBFR
## EFFR     2.015384e-05 -2.192379e-03 -5.429186e-04  2.353329e-03 -1.333077e-04
## OBFR     3.086132e-04  3.133302e-05  1.468123e-04 -1.333077e-04  1.214563e-03
## TGCR    -5.021223e-04  1.120624e-04  9.346819e-06 -1.314477e-05 -1.474116e-03
## BGCR     2.803113e-04 -1.140677e-04  3.166623e-04 -7.338419e-06  3.376241e-04
## SOFR    -1.140677e-04  2.168782e-03  3.882014e-05 -2.203858e-03  4.005974e-05
## ones_v  3.166623e-04  3.882014e-05  6.110692e-03 -5.415229e-04  1.505714e-04
##           TGCR      BGCR      SOFR      ones_v      EFFR
## EFFR    -1.314477e-05 -7.338419e-06 -2.203858e-03 -5.415229e-04  0.0026806670

```

```
## OBFR    -1.474116e-03  3.376241e-04  4.005974e-05  1.505714e-04 -0.0003881102
## TGCR     2.082974e-03 -6.690224e-04  9.608547e-05 -1.136785e-04  0.0001992983
## BGCR    -6.690224e-04  4.363845e-04 -1.058487e-04  4.176672e-04  0.0001265894
## SOFR     9.608547e-05 -1.058487e-04  2.179191e-03  5.512111e-05 -0.0026237252
## ones_v  -1.136785e-04  4.176672e-04  5.512111e-05  6.063955e-03 -0.0004471142
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFFR    -0.0003881102  0.0001992983  0.0001265894 -0.0026237252 -0.0004471142
## OBFR     0.0015453692 -0.0017792390  0.0002213639  0.0003849274  0.0001034864
## TGCR    -0.0017792390  0.0021563625 -0.0003448115 -0.0002097751  0.0001374711
## BGCR     0.0002213639 -0.0003448115  0.0001242461 -0.0001327451 -0.0001336462
## SOFR     0.0003849274 -0.0002097751 -0.0001327451  0.0025864986  0.0003133390
## ones_v   0.0001034864  0.0001374711 -0.0001336462  0.0003133390  0.0047708666
##
## [[6]]
##          [,1] [,2] [,3]
## [1,] 10345124    6    0
## [2,]  4602158    6    0
## [3,]  4258747    6    0
## [4,]  4079238    6    0
## [5,] 10994799    6    0
```

```
print(result[[1]]) # bv
```

```
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    1.23137580  0.24901275  0.226223710  0.229999766  0.26044154
## OBFR   -0.04925048  0.93660696 -0.007647507 -0.011818915 -0.02840991
## TGCR    0.04014730  0.04276950  0.983734763 -0.007054103  0.01560722
## BGCR    0.01438766  0.01955677  0.019184006  1.010725462  0.01509671
## SOFR   -0.23291169 -0.24405593 -0.218052721 -0.218368269  0.74102509
## ones_v -0.19185527 -0.23058177 -0.214540065 -0.224705895 -0.21902513
```

```
print(result[[2]]) # sebv
```

```
##          [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.043792629 0.04373157 0.04844488 0.04851112 0.05177516
## [2,] 0.035676752 0.03578214 0.03475137 0.03485058 0.03931118
## [3,] 0.038542014 0.03947262 0.04355668 0.04563961 0.04643665
## [4,] 0.008950011 0.01483403 0.01674250 0.02088982 0.01114657
## [5,] 0.043254944 0.04240316 0.04657018 0.04668180 0.05085763
## [6,] 0.066767796 0.07800627 0.07817091 0.07787140 0.06907146
```

```
print(result[[4]]) # R2adj
```

```
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999998 0.9999998 0.9999998 0.9999998 0.9999998
```

```
print(result[[5]]) # v covariance
```

```
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    1.917794e-03 -1.129808e-03  1.161093e-03 -5.651267e-05 -1.884219e-03
## OBFR   -1.129808e-03  1.272831e-03 -1.339129e-03  8.356081e-05  1.106221e-03
```



```
## TGCR      1.161093e-03 -1.339129e-03  1.485487e-03 -1.534834e-04 -1.145250e-03
## BGCR      -5.651267e-05  8.356081e-05 -1.534834e-04  8.010269e-05  4.415403e-05
## SOFR      -1.884219e-03  1.106221e-03 -1.145250e-03  4.415403e-05  1.870990e-03
## ones_v    -5.154717e-04  2.431646e-04 -3.603101e-05 -1.021566e-04  3.844043e-04
##          ones_v          EFR      OBFR          TGCR          BGCR
## EFR      -5.154717e-04  0.0019124499 -0.0011497667  0.0011722695 -1.336647e-04
## OBFR      2.431646e-04 -0.0011497667  0.0012803616 -0.0013373218  1.534337e-04
## TGCR      -3.603101e-05  0.0011722695 -0.0013373218  0.0015580878 -2.829499e-04
## BGCR      -1.021566e-04 -0.0001336647  0.0001534337 -0.0002829499  2.200485e-04
## SOFR      3.844043e-04 -0.0017915785  0.0010460389 -0.0010999500  3.924294e-05
## ones_v    4.457939e-03 -0.0008485326  0.0005227661 -0.0003780788  3.161250e-04
##          SOFR          ones_v          EFR      OBFR          TGCR
## EFR      -1.791578e-03 -0.0008485326  2.346906e-03 -1.281439e-04 -5.102455e-05
## OBFR      1.046039e-03  0.0005227661 -1.281439e-04  1.207658e-03 -1.434496e-03
## TGCR      -1.099950e-03 -0.0003780788 -5.102455e-05 -1.434496e-03  1.897185e-03
## BGCR      3.924294e-05  0.0003161250  2.015384e-05  3.086132e-04 -5.021223e-04
## SOFR      1.798028e-03  0.0003555018 -2.192379e-03  3.133302e-05  1.120624e-04
## ones_v    3.555018e-04  0.0060849779 -5.429186e-04  1.468123e-04  9.346819e-06
##          BGCR          SOFR          ones_v          EFR      OBFR
## EFR      2.015384e-05 -2.192379e-03 -5.429186e-04  2.353329e-03 -1.333077e-04
## OBFR      3.086132e-04  3.133302e-05  1.468123e-04 -1.333077e-04  1.214563e-03
## TGCR      -5.021223e-04  1.120624e-04  9.346819e-06 -1.314477e-05 -1.474116e-03
## BGCR      2.803113e-04 -1.140677e-04  3.166623e-04 -7.338419e-06  3.376241e-04
## SOFR      -1.140677e-04  2.168782e-03  3.882014e-05 -2.203858e-03  4.005974e-05
## ones_v    3.166623e-04  3.882014e-05  6.110692e-03 -5.415229e-04  1.505714e-04
##          TGCR          BGCR          SOFR          ones_v          EFR
## EFR      -1.314477e-05 -7.338419e-06 -2.203858e-03 -5.415229e-04  0.0026806670
## OBFR      -1.474116e-03  3.376241e-04  4.005974e-05  1.505714e-04 -0.0003881102
## TGCR      2.082974e-03 -6.690224e-04  9.608547e-05 -1.136785e-04  0.0001992983
## BGCR      -6.690224e-04  4.363845e-04 -1.058487e-04  4.176672e-04  0.0001265894
## SOFR      9.608547e-05 -1.058487e-04  2.179191e-03  5.512111e-05 -0.0026237252
## ones_v    -1.136785e-04  4.176672e-04  5.512111e-05  6.063955e-03 -0.0004471142
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFR      -0.0003881102  0.0001992983  0.0001265894 -0.0026237252 -0.0004471142
## OBFR      0.0015453692 -0.0017792390  0.0002213639  0.0003849274  0.0001034864
## TGCR      -0.0017792390  0.0021563625 -0.0003448115 -0.0002097751  0.0001374711
## BGCR      0.0002213639 -0.0003448115  0.0001242461 -0.0001327451 -0.0001336462
## SOFR      0.0003849274 -0.0002097751 -0.0001327451  0.0025864986  0.0003133390
## ones_v    0.0001034864  0.0001374711 -0.0001336462  0.0003133390  0.0047708666
```

```
print(result[[6]]) # Ftest
```

```
##          [,1] [,2] [,3]
## [1,] 10345124      6      0
## [2,]  4602158      6      0
## [3,]  4258747      6      0
## [4,]  4079238      6      0
## [5,] 10994799      6      0
```

```
bvtablek10<-xtable(result[[1]])
sebvtablek10<-xtable(result[[2]])
R2adjtablek10<-xtable(result[[4]])
vtablek10<-xtable(result[[5]])
```

```
Ftesttablek10<-xtable(result[[6]])
rrbpk10table <- cbind(bvtablek10, sebvtablek10)
```

```
normalcy2 <- rollapply(normalcy_zoo, width = 2, FUN = mean, na.rm = TRUE, align = "right")
nrow(normalcy2) # [1] 855
```

```
## [1] 855
```

```
ncol(normalcy2) # [1] 5
```

```
## [1] 5
```

```
lhv<- normalcy2[2:855,1:5]
T<-nrow(lhv)
ones_v <- rep(1, times = T)
nrow(ones_v)
```

```
## NULL
```

```
rhv1<- normalcy[1:854,1:5]

rhv<- cbind(rhv1, ones_v) # Add a column of ones
nrow(lhv)
```

```
## [1] 854
```

```
nrow(rhv)
```

```
## [1] 854
```

```
nlag<-1
nw<-1

result <-olsghmmv2(lhv,rhv,nlag,nw)
```

```
## [1] 854
```

```
## [1] 854
```

```
## [1] 854
```

```
## [1] 5
```

```
## [1] 6
```

```
##      EFRF      OFFR      TGRF      BGRF      OFFR
## 134.0884 127.7611 127.6692 130.5509 134.2219
```

```
##      EFRF      OFFR      TGRF      BGRF      OFFR
## 3      -0.373270084  0.51152723  1.302066755  3.159687e-02 -7.636956e-01
## 4      -0.552562122  2.26582558  2.922917883  3.908982e+00 -9.100387e-01
## 5      -1.297534422  1.90216356  0.998902673  1.844554e+00 -1.262683e+00
## 6      -0.515242042  1.22566315  1.556709077  3.229626e+00 -8.373893e-01
## 7      -0.515242042  1.72566315  1.556709077  3.729626e+00 -8.373893e-01
## 8      -0.663613145  0.10095920 -0.681362439 -1.399320e+00 -3.307827e-01
```

## 9	-0.079272843	0.69883836	-0.069600503	-4.718473e-02	4.118434e-01
## 10	-0.411837743	-0.06028172	-1.801399024	-3.759267e+00	2.173608e-01
## 11	0.333134558	-0.19661969	-0.877383813	-4.694839e+00	5.700053e-01
## 12	-0.211140700	0.72743549	0.492455734	-1.889658e+00	2.112764e-01
## 13	-0.319446759	2.12466588	4.235985702	5.638712e+00	1.017802e-01
## 14	-0.993433080	3.90393589	4.934649330	8.225270e+00	-2.140175e-01
## 15	-1.957762463	2.27263788	0.649883764	1.880911e+00	-5.969023e-01
## 16	-0.482823722	1.29678625	1.575922137	1.589747e+00	1.805140e-01
## 17	-0.482823722	1.29678625	0.575922137	8.974716e-02	1.805140e-01
## 18	-0.989778901	-0.31932100	-0.420447121	2.215572e+00	-1.055656e-01
## 19	-5.737851421	0.66044827	2.999937348	7.154175e+00	5.331585e-01
## 20	-7.163209187	-0.76278362	-1.218128073	-2.150669e+00	-6.054983e+00
## 21	10.609284641	5.46149869	3.045581177	1.329568e+00	5.535892e+00
## 22	-0.576937111	-0.65473341	0.270791413	-6.568625e-01	4.384180e-01
## 23	-0.084174602	0.81012388	1.315821364	4.922930e-01	3.570973e-01
## 24	-0.520143801	1.33694867	1.942130944	1.769103e+00	1.078646e-01
## 25	-0.937452961	0.84369225	1.135336121	1.456236e+00	-1.050434e-01
## 26	-0.937452961	1.34369225	1.135336121	1.456236e+00	-1.050434e-01
## 27	-0.847806942	1.46654307	0.824910556	1.754315e-02	-3.187191e-02
## 28	-0.591129781	1.69401664	1.319452105	1.118118e+00	7.101774e-02
## 29	-0.591129781	1.69401664	1.319452105	3.118118e+00	7.101774e-02
## 30	-0.591129781	1.69401664	1.319452105	4.118118e+00	7.101774e-02
## 31	-0.232545704	-0.31458007	-0.922250153	-3.636652e+00	3.637039e-01
## 32	-0.411837743	-1.06028172	-1.801399024	-5.259267e+00	2.173608e-01
## 33	-0.282126680	0.58450345	-0.130223105	-5.406439e-01	1.744295e-01
## 34	-0.557463881	0.87711110	1.808339750	2.948460e+00	3.521521e-02
## 35	-0.050508702	1.99321835	3.304709009	3.822635e+00	3.212948e-01
## 36	-1.886776483	0.41556992	-2.227437397	-4.468103e+00	-5.600555e-01
## 37	-0.192480661	0.70735428	0.059351331	-1.979336e+00	2.476011e-01
## 38	-0.211140700	1.22743549	0.492455734	-1.389658e+00	2.112764e-01
## 39	-0.647109900	1.25426028	1.618765314	3.871520e-01	-3.795633e-02
## 40	-3.729800740	2.24751670	2.925560137	2.200020e+00	1.749517e-01
## 41	-5.328051400	1.41742305	-0.178940316	-4.004655e-01	-4.139834e+00
## 42	6.356690678	5.09288101	4.485987657	3.314810e+00	3.352583e+00
## 43	-1.071081006	1.24542453	1.835322682	1.486995e+00	-4.874279e-02
## 44	-0.628449860	2.23417907	2.685660911	3.297474e+00	-1.631641e-03
## 45	-0.956113001	2.36377347	1.568440524	2.545914e+00	-1.413681e-01
## 46	-0.937452961	1.34369225	0.135336121	9.562356e-01	-1.050434e-01
## 47	-0.084174602	0.81012388	0.815821364	9.922930e-01	3.570973e-01
## 48	-0.430497782	0.95979950	0.631705379	8.304109e-01	1.810361e-01
## 49	-0.430497782	0.95979950	0.631705379	8.304109e-01	1.810361e-01
## 50	-0.430497782	0.95979950	1.131705379	2.330411e+00	1.810361e-01
## 51	-0.430497782	1.45979950	1.131705379	3.330411e+00	1.810361e-01
## 52	-0.668514904	0.21224472	-1.295940573	-1.359842e+00	1.144712e-01
## 53	0.095117436	-0.44417447	-1.305029765	-3.885092e+00	5.034404e-01
## 54	-0.013188622	-0.04694408	-1.061499798	-4.356721e+00	3.939442e-01
## 55	-0.211140700	0.72743549	-0.007544266	-2.889658e+00	2.112764e-01
## 56	-0.229800740	1.24751670	2.425560137	7.000198e-01	1.749517e-01
## 57	-0.755415959	3.15149067	3.362295282	3.415523e+00	-1.474526e-01
## 58	-1.738405381	1.54027387	-0.989365881	-2.839158e+00	-5.666620e-01
## 59	-0.390432739	1.98173384	1.113306863	-1.227336e-02	6.493332e-02
## 60	-0.211140700	0.22743549	1.492455734	6.103417e-01	2.112764e-01
## 61	-4.755415959	3.65149067	3.862295282	7.915523e+00	-1.474526e-01
## 62	-5.469467324	0.90882634	-0.920642574	-6.552355e-01	-4.347147e+00

## 63	7.492904381	4.29927938	3.288250971	3.162671e+00	3.984009e+00
## 64	-0.469578048	-0.12690293	0.635844510	1.383000e+00	3.652544e-01
## 65	-0.359511803	0.60273154	0.754384218	1.981396e+00	2.178830e-01
## 66	-0.269865784	0.72558236	1.443958654	2.542704e+00	2.910545e-01
## 67	-0.687174944	1.23232594	1.137163831	2.229836e+00	7.814647e-02
## 68	-0.668514904	0.71224472	1.704059427	1.640158e+00	1.144712e-01
## 69	-0.411837743	1.93971828	3.698600976	4.240733e+00	2.173608e-01
## 70	-1.663765222	1.45994901	0.778216507	8.021296e-01	-4.213633e-01
## 71	-0.971118861	1.16059778	1.646448475	2.125894e+00	-6.924092e-02
## 72	-0.143455721	2.53100338	3.263668863	6.377454e+00	7.049558e-02
## 73	-0.298782002	1.29019218	0.029228088	2.374334e+00	-2.089774e-01
## 74	-0.294119249	-0.60130329	-0.456931079	-8.432256e-01	-1.224232e-01
## 75	0.033543892	-0.23089769	0.660289308	4.083347e-01	5.173133e-01
## 76	-0.824636227	1.41395620	1.365225932	3.411755e+00	4.264427e-04
## 77	-0.388667027	1.38713141	2.738916352	7.134945e+00	2.496592e-01
## 78	-0.216330168	2.01672581	10.121695964	1.188338e+01	1.099227e-01
## 79	0.743604789	5.49479146	12.140094481	1.022607e+01	7.260255e-01
## 80	-5.568462046	4.71015853	-0.655984665	6.490126e+00	-2.722775e+00
## 81	0.620303546	0.12324186	-0.984040619	-3.949704e-02	8.966315e-01
## 82	-0.598197039	-0.95364290	-1.016274744	5.674160e+00	2.539130e-01
## 83	-4.433862159	1.13066832	2.596326416	9.465109e+00	1.050799e+00
## 84	-6.084976149	-4.89903944	-8.475203199	-1.544664e+01	-4.987283e+00
## 85	10.522032501	2.58898240	0.263722141	-2.642931e+00	5.774752e+00
## 86	0.071774573	-1.88353931	0.788184042	-7.606958e-01	7.550012e-01
## 87	-0.582499512	1.70778517	1.625133308	5.609265e+00	4.192614e-03
## 88	-0.327319736	0.98513334	1.241539151	3.843388e+00	2.421287e-01
## 89	-0.475690838	-0.63957062	-1.496532365	-1.785557e+00	2.487352e-01
## 90	-0.308659696	-1.03494788	-1.691565252	-1.246290e+00	2.784533e-01
## 91	0.179635443	-0.39875942	0.237908410	2.175635e-01	5.282082e-01
## 92	-0.256333756	0.62806537	0.864217990	2.494374e+00	2.789755e-01
## 93	-0.673642916	0.63480895	-0.442576833	6.815062e-01	6.606747e-02
## 94	-0.148027697	-1.26916502	-2.879311978	-4.533997e+00	3.884717e-01
## 95	0.000343405	-1.64446106	-2.641240462	-3.405052e+00	3.818652e-01
## 96	0.559624524	36.13465944	35.910912039	3.220979e+01	6.684669e-01
## 97	-0.312313875	37.68830902	38.163531199	3.626341e+01	1.700014e-01
## 98	-5.506551270	-43.38680866	-40.866205791	-4.034189e+01	-2.636443e+00
## 99	-1.545581315	0.68845853	-1.189957673	-2.264873e+00	-4.323980e-01
## 100	-0.525271814	0.75951290	-0.204505317	-6.895486e-01	5.946090e-02
## 101	-0.107962654	0.75276933	0.602289506	6.233191e-01	2.723689e-01
## 102	-0.454285834	0.90244494	0.418173522	9.614370e-01	9.630774e-02
## 103	-5.364639815	2.02529576	1.607747957	3.522744e+00	1.694793e-01
## 104	-5.364639815	38.02529576	37.107747957	3.652274e+01	-4.830521e+00
## 105	9.163602578	73.39568226	71.560197644	6.346426e+01	4.839205e+00
## 106	-5.644134076	26.70114826	29.110619573	2.516011e+01	-2.452229e+00
## 107	-5.852874450	-6.23713305	-5.550321776	-5.503771e+00	-2.812505e+00
## 108	-5.852874450	-40.23713305	-40.050321776	-3.750377e+01	-2.812505e+00
## 109	-0.308659696	-0.03494788	-1.191565252	-3.746290e+00	2.784533e-01
## 110	-0.160288594	0.58975607	0.046506264	-1.117345e+00	2.718468e-01
## 111	-0.178948633	1.10983729	1.979610667	1.972333e+00	2.355221e-01
## 112	-0.525271814	1.75951290	2.795494683	4.310451e+00	5.946090e-02
## 113	-1.270244114	0.89585088	0.871479472	3.246023e+00	-2.931836e-01
## 114	-0.744628896	0.49187691	0.434744328	1.530521e+00	2.922062e-02
## 115	-0.654982876	0.61472773	-0.375681237	-4.081719e-01	1.023922e-01
## 116	-0.398305715	0.34220130	0.118860312	6.924027e-01	2.052818e-01

## 117	0.019003445	0.33545772	0.425655135	2.005270e+00	4.181898e-01
## 118	-0.744628896	-0.50812309	-2.065255672	-1.969479e+00	2.922062e-02
## 119	0.269281462	-1.27590859	-2.572517155	-7.221129e+00	-4.398620e+00
## 120	-0.107962654	-0.24723067	-0.397710494	-1.376681e+00	-4.727631e+00
## 121	0.063457640	0.73121307	3.129439661	4.466561e+00	5.599951e-01
## 122	-1.057286176	0.82464699	0.239515989	1.198980e+00	-1.826431e-01
## 123	-0.454285834	1.40244494	0.918173522	4.461437e+00	9.630774e-02
## 124	-0.513010918	-0.59940819	-1.630323559	-1.062007e-01	1.760859e-01
## 125	0.250621423	-0.75582738	0.360587249	4.868549e+00	5.650551e-01
## 126	-5.006055739	0.01669906	0.866045700	5.767975e+00	4.621654e-01
## 127	-5.392443963	-1.85555967	-2.799671768	-3.051223e+00	-4.597793e+00
## 128	9.413880595	3.28431595	1.562025354	1.737859e+00	5.022395e+00
## 129	0.221344675	-2.56510085	-0.406117355	-2.157818e+00	8.587656e-01
## 130	-0.077041718	-1.62623298	-0.756633139	-2.883011e+00	4.253186e-01
## 131	-0.871594994	0.90918852	1.611378698	5.148569e+00	-1.166003e-01
## 132	-0.602656937	1.27774099	1.180102005	3.332492e+00	1.029143e-01
## 133	-0.911660038	-0.11274583	-1.370222785	-1.008747e+00	-4.974905e-04
## 134	0.108649464	-0.04169146	0.115229571	1.066578e+00	4.913614e-01
## 135	-0.237673717	0.10798416	0.431113587	1.904696e+00	3.153002e-01
## 136	-0.237673717	0.60798416	0.431113587	4.046958e-01	3.153002e-01
## 137	-0.565336857	-0.76242144	-3.186106801	-4.846864e+00	1.755637e-01
## 138	-0.160288594	-1.41024393	-2.453493736	-1.617345e+00	2.718468e-01
## 139	0.995593723	-1.39216535	-0.215397541	-1.067023e+00	9.176996e-01
## 140	-0.639977016	-0.68209658	-0.953689188	1.184798e-02	3.026494e-02
## 141	-0.133021837	-0.06598934	1.042680071	4.386023e+00	3.163445e-01
## 142	-0.550330997	0.94075424	1.235885247	7.573155e+00	1.034365e-01
## 143	-0.500750021	-1.45832928	0.943858199	5.977147e+00	2.927108e-01
## 144	0.191896339	1.24231949	5.812090168	1.680091e+01	6.448332e-01
## 145	-1.863728524	0.89703506	1.919193407	1.523024e+01	-2.667573e-01
## 146	-0.410194787	-1.62083213	1.930525894	1.969208e+01	6.630864e-01
## 147	-5.347259489	-1.06496852	-3.872418057	2.297226e+00	1.058140e+00
## 148	-5.486114659	-13.11069034	-16.384118105	-3.158504e+01	-4.129876e+00
## 149	14.205416428	4.91733957	9.070025061	1.498110e+01	7.400176e+00
## 150	-1.393409230	-2.04849559	-2.310745562	-4.544774e+00	2.511540e-01
## 151	0.201949662	-1.14209753	-2.550292445	-4.881813e+00	6.729848e-01
## 152	0.324705546	-1.11341961	-2.875485784	-3.537365e+00	3.439740e-01
## 153	1.801295825	-0.84104268	0.483461540	-2.109658e+00	8.434837e-01
## 154	-0.027564240	1.25191018	2.812966257	2.718717e+00	-1.400644e-01
## 155	-1.298151759	2.29222212	0.325686190	2.369792e+00	-3.151132e-01
## 156	-0.829764239	-0.16347957	-1.781410329	-4.689697e-02	-4.797725e-02
## 157	0.858132440	-0.21053509	-0.487335440	1.148958e-01	8.399796e-01
## 158	-0.508500242	-1.63191385	-4.156903780	-7.122311e+00	1.720595e-01
## 159	0.910458380	-1.54752184	-0.931552198	-4.144440e+00	8.405017e-01
## 160	-0.069786078	0.90335813	0.064596930	-5.624491e-01	2.325401e-01
## 161	-0.743772399	-0.31737185	-0.736739442	-9.758915e-01	-8.325762e-02
## 162	0.347523082	1.39661456	2.371391753	4.250419e+00	4.454481e-01
## 163	-1.328112701	0.08474898	-0.848501378	1.719737e-01	-3.258838e-01
## 164	0.128166000	0.62897856	2.010641398	4.470488e+00	4.152078e-01
## 165	-0.873483462	0.53784298	-0.907915361	-1.945147e-01	-4.032635e-02
## 166	-0.508500242	-1.63191385	-1.656903780	-1.223107e-01	1.720595e-01
## 167	-4.506850780	-0.04077826	0.261652979	3.042692e+00	6.275937e-01
## 168	-5.932208545	-2.46401015	-5.456412442	-8.262152e+00	-4.960548e+00
## 169	10.293074634	3.26025748	3.630636263	5.004800e+00	5.328082e+00
## 170	0.151215192	-0.51728165	2.299720037	4.684785e+00	7.094406e-01

## 171	-1.040514604	-1.06677976	-2.712882474	-3.733782e+00	-7.004447e-02
## 172	-0.180837101	-1.76150825	-2.539683393	-3.370751e+00	3.117960e-01
## 173	0.217812019	-0.74817061	-0.299784166	-4.682047e-01	4.883794e-01
## 174	-0.218157180	0.27865418	1.326525414	2.808606e+00	2.391466e-01
## 175	-0.545820321	0.90824858	0.209305026	5.570455e-01	9.941014e-02
## 176	-0.944469441	-0.60508906	-2.530594200	-4.345500e+00	-7.717320e-02
## 177	0.403503201	-0.16362909	-0.927921457	-2.518616e+00	5.544222e-01
## 178	-0.378789179	-0.48712868	-2.485727861	-4.903687e+00	1.291283e-01
## 179	0.366183121	-0.62346666	-1.561712650	-4.339260e+00	4.817728e-01
## 180	-0.088446118	-0.07656065	-1.002298667	-2.972771e+00	1.962154e-01
## 181	-0.017460138	0.06637138	-0.879619828	-3.321785e+00	2.330622e-01
## 182	-0.453429338	0.09319618	-0.753310248	-2.544975e+00	-1.617050e-02
## 183	-0.036120178	0.58645260	0.553484575	-7.321073e-01	1.967375e-01
## 184	-0.799752518	0.74287179	-0.437426233	-1.706857e+00	-1.922317e-01
## 185	-0.363783319	0.21604700	-0.563735813	-2.983668e+00	5.700104e-02
## 186	-0.453429338	0.59319618	0.246689752	-1.544975e+00	-1.617050e-02
## 187	-5.453429338	0.59319618	0.246689752	-1.544975e+00	-1.617050e-02
## 188	-5.870738498	0.09993975	-1.060105071	-2.857843e+00	-5.229079e+00
## 189	8.929186916	5.40097549	3.308878213	1.104265e+00	4.471410e+00
## 190	-0.591012145	-0.31884690	0.223515116	-1.542971e+00	1.680438e-01
## 191	-0.453429338	0.59319618	-0.253310248	-2.044975e+00	-1.617050e-02
## 192	-0.453429338	0.59319618	-0.253310248	-2.044975e+00	-1.617050e-02
## 193	-0.453429338	0.59319618	1.246689752	-4.497506e-02	-1.617050e-02
## 194	-0.453429338	2.09319618	2.746689752	1.955025e+00	-1.617050e-02
## 195	-1.615710798	1.73627773	-0.984120282	-2.422271e+00	-5.817231e-01
## 196	-0.576741257	0.28725088	-1.931772329	-3.936624e+00	-5.353950e-02
## 197	0.257877063	-0.22623627	11.181817317	8.689111e+00	3.722766e-01
## 198	12.392893842	12.44352056	24.430805736	2.261691e+01	1.598907e-01
## 199	14.531150826	13.25504200	5.383613996	2.946200e+00	7.374037e+00
## 200	-1.030942640	-2.34987746	-0.409868355	-3.354598e+00	1.676458e-01
## 201	-0.430308462	-0.34229620	-2.607390217	-5.509033e+00	-1.900004e-01
## 202	-0.102645321	-0.47189060	-1.990169830	-4.757473e+00	-5.026387e-02
## 203	0.385649818	0.16429786	0.439303832	-1.293620e+00	1.994910e-01
## 204	-0.467628541	0.69786623	1.258818589	1.670323e+00	-2.626497e-01
## 205	-0.615999644	0.57316228	1.520747073	4.137770e-02	-2.560432e-01
## 206	-1.104294783	1.43697381	-0.408726589	-1.922476e+00	-5.057980e-01
## 207	-1.246266742	-0.34889026	-3.654084267	-6.224447e+00	-5.794917e-01
## 208	-4.801692901	-1.16847222	-1.365467829	-3.962079e+00	4.113547e-01
## 209	-5.602645321	0.02810940	1.509830170	1.742527e+00	-5.550264e+00
## 210	10.051201417	6.71204391	5.623270364	4.667424e+00	4.856357e+00
## 211	-2.000608171	-0.92993560	-2.308233899	-3.434699e+00	-6.558068e-01
## 212	0.370643958	-0.53887782	-0.982688216	-2.213640e+00	2.716182e-01
## 213	-0.322002403	-0.73952659	-2.350920185	-4.037404e+00	-8.050414e-02
## 214	0.095306757	-1.24627017	-1.544125362	-3.724536e+00	1.324039e-01
## 215	0.076646717	-0.22618895	0.388979042	-1.134858e+00	9.607921e-02
## 216	-0.686985623	0.43023024	0.398068234	-1.096079e-01	-2.928900e-01
## 217	-0.757971602	0.78729820	1.275389395	2.739406e+00	-3.297369e-01
## 218	-0.649665543	0.39006781	1.031859428	3.711036e+00	-2.202406e-01
## 219	-0.958668644	-0.50041901	-2.518465363	-3.130202e+00	-3.236524e-01
## 220	-0.343407407	-2.78154215	-5.265626072	-1.128440e+01	7.192335e-02
## 221	0.627321119	-0.81140426	-1.488146667	-3.113065e+00	3.745079e-01
## 222	0.005660738	-0.86912099	-0.733699797	-1.785844e+00	5.923236e-02
## 223	0.076646717	0.27381105	0.888979042	3.651419e-01	9.607921e-02
## 224	-1.014648764	0.05982464	-1.219152153	-2.361168e+00	-4.326265e-01

## 225	-0.322002403	-0.23952659	-0.850920185	-1.537404e+00	-8.050414e-02
## 226	-0.322002403	-0.23952659	-0.850920185	-1.537404e+00	-8.050414e-02
## 227	-0.232356384	-0.61667577	-0.161345749	5.239036e-01	-7.332602e-03
## 228	-5.322002403	0.76047341	0.649079815	2.962596e+00	-8.050414e-02
## 229	-5.708390627	-1.61178532	-3.516637653	-6.356602e+00	-5.140463e+00
## 230	9.515243091	3.52134672	1.651854293	-2.546521e-01	4.692634e+00
## 231	-0.023616010	-1.67839446	-0.500404400	-1.812210e+00	3.529429e-01
## 232	-0.232356384	-0.61667577	-1.661345749	-3.976096e+00	-7.332602e-03
## 233	-0.322002403	-0.73952659	-1.850920185	-4.037404e+00	-8.050414e-02
## 234	0.005660738	-0.36912099	0.266300203	-2.858437e-01	5.923236e-02
## 235	-0.340662443	0.78055462	0.582184218	1.052274e+00	-1.168288e-01
## 236	-0.995988724	-0.46025658	-2.652256557	-3.450846e+00	-3.963018e-01
## 237	0.113966797	-1.26635138	-1.977229765	-3.314214e+00	1.687286e-01
## 238	0.184952776	-1.12341934	-0.354550926	-1.663229e+00	2.055754e-01
## 239	-0.251016423	0.40340545	-0.228241346	-8.864183e-01	-4.365729e-02
## 240	-0.995988724	-0.96025658	-3.152256557	-5.450846e+00	-3.963018e-01
## 241	0.441629937	-0.89594578	-1.360009377	-3.562654e+00	3.084651e-01
## 242	-0.340662443	-0.71944538	-1.917815782	-3.447726e+00	-1.168288e-01
## 243	0.076646717	-0.72618895	-1.111020958	-2.634858e+00	9.607921e-02
## 244	-0.269676463	-0.57651334	-0.795136943	-2.296740e+00	-7.998198e-02
## 245	-0.269676463	-0.07651334	-0.795136943	-1.796740e+00	-7.998198e-02
## 246	-0.686985623	-0.56976976	-1.101931766	-1.609608e+00	-2.928900e-01
## 247	-4.333707264	-0.10333813	-0.421446523	-2.073551e+00	1.692507e-01
## 248	-5.514648764	-11.94017536	-13.719152153	-1.286117e+01	-4.932627e+00
## 249	8.867324527	-18.54886318	-18.720935359	-1.363866e+01	4.310963e+00
## 250	1.288757513	-11.50899876	-10.836407870	-8.468276e+00	1.122563e+00
## 251	1.591874078	0.05754166	-1.386401827	-4.297464e+00	1.103113e+00
## 252	1.758905220	11.16216440	9.918565286	5.241803e+00	1.132831e+00
## 253	0.076646717	-0.72618895	-1.111020958	-2.634858e+00	9.607921e-02
## 254	-0.269676463	-0.57651334	-1.295136943	-2.796740e+00	-7.998198e-02
## 255	-0.269676463	-0.57651334	-1.295136943	-2.796740e+00	-7.998198e-02
## 256	-0.269676463	-0.57651334	-0.295136943	-1.796740e+00	-7.998198e-02
## 257	-0.269676463	0.42348666	0.704863057	-2.967402e-01	-7.998198e-02
## 258	-1.104294783	0.43697381	11.091273411	1.057752e+01	-5.057980e-01
## 259	12.177997597	11.76047341	22.649079815	2.096260e+01	-8.050414e-02
## 260	14.662577761	11.42231923	2.786004060	4.537709e-01	7.309703e+00
## 261	-0.154543404	-3.81893820	-0.583463081	-1.782599e+00	4.559567e-01
## 262	-0.156909568	-1.38915489	-1.959642476	-3.199491e+00	-1.806403e-01
## 263	-0.156909568	-1.38915489	-1.459642476	-2.699491e+00	-1.806403e-01
## 264	-0.156909568	-0.88915489	-0.459642476	-1.699491e+00	-1.806403e-01
## 265	-0.574218727	-0.38241131	-1.266437299	-2.512359e+00	-3.935483e-01
## 266	-0.645204707	-1.02534335	-2.389116138	-3.663344e+00	-4.303952e-01
## 267	0.118427633	-1.18176254	-1.398205330	-2.688594e+00	-4.142597e-02
## 268	-0.227895547	-1.03208693	-1.082321315	-1.850477e+00	-2.174872e-01
## 269	-0.227895547	-0.53208693	0.917678685	2.649523e+00	-2.174872e-01
## 270	-5.055558688	0.59750747	-0.699541702	8.979633e-01	-3.572237e-01
## 271	-5.602578910	-3.04053412	-6.177512445	-9.133528e+00	-5.027200e+00
## 272	9.781043842	1.94191365	2.239261109	2.539831e-01	4.671923e+00
## 273	-0.262074054	-1.73007487	0.036395949	1.626345e-01	2.147729e-02
## 274	-0.555558688	-0.40249253	-0.699541702	8.979633e-01	-3.572237e-01
## 275	-0.447252629	-1.29972292	-1.943071670	-2.130407e+00	-2.477274e-01
## 276	-0.011283429	-1.82654771	-2.569381250	-4.407218e+00	1.505295e-03
## 277	-0.190575468	-1.57224936	-2.448530121	-2.529833e+00	-1.448378e-01
## 278	0.226733692	-1.57899293	-0.141735298	1.783035e+00	6.807026e-02

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## 279 -0.029943469 -0.30646650 1.363723153 4.682460e+00 -3.481939e-02
## 280 -1.012932891 -0.91768330 -1.987938009 -5.722202e-01 -4.540289e-01
## 281 -0.301626491 -1.73711574 -3.052810444 -2.838134e+00 -6.558182e-02
## 282 0.372359831 -1.51638575 -3.251474072 -3.924692e+00 2.502159e-01
## 283 0.372359831 -3.51638575 -5.251474072 -8.924692e+00 2.502159e-01
## 284 1.009026072 -2.75549334 -2.583928894 -5.831893e+00 4.933642e-01
## 285 0.118427633 -1.18176254 -0.898205330 -6.885944e-01 -4.142597e-02
## 286 -0.227895547 -0.53208693 -0.582321315 1.149523e+00 -2.174872e-01
## 287 -0.376266649 -1.65679088 -2.320392831 -2.479422e+00 -2.108806e-01
## 288 -0.029943469 -1.80646650 -1.636276847 -8.175396e-01 -3.481939e-02
## 289 -0.029943469 -1.30646650 0.363723153 4.182460e+00 -3.481939e-02
## 290 -4.267960591 -0.55402127 -0.563922798 1.492208e+00 -1.013844e-01
## 291 -4.814980813 -3.69206287 -6.041893541 -1.003928e+01 -4.271361e+00
## 292 8.116469956 0.57739248 -0.474077351 -3.215047e+00 3.906845e+00
## 293 0.116667447 -2.80862740 -1.260275006 -2.315362e+00 2.154417e-01
## 294 -0.209235507 -1.55216814 -1.015425718 -9.401546e-01 -1.811625e-01
## 295 -0.465912669 -0.77964171 -1.509967267 -2.540729e+00 -2.840521e-01
## 296 -0.536898648 -1.42257374 -3.132646105 -4.691715e+00 -3.208990e-01
## 297 0.137087673 -1.70184376 -2.331309734 -3.778273e+00 -5.101280e-03
## 298 0.208073653 -1.55891172 -1.208630895 -3.127287e+00 3.174557e-02
## 299 -0.227895547 -0.53208693 -1.082321315 -2.350477e+00 -2.174872e-01
## 300 -0.645204707 -1.02534335 -1.889116138 -1.663344e+00 -4.303952e-01
## 301 0.118427633 -0.68176254 -0.898205330 3.114056e-01 -4.142597e-02
## 302 -0.376266649 -2.15679088 -3.320392831 -3.979422e+00 -2.108806e-01
## 303 0.297719672 -1.93606090 -1.519056459 -2.065979e+00 1.049171e-01
## 304 0.041042510 -1.66353446 -2.013598008 -4.166554e+00 2.027453e-03
## 305 -0.555558688 -1.40249253 -2.699541702 -4.102037e+00 -3.572237e-01
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## 307 -0.227895547 -1.03208693 -1.082321315 -1.350477e+00 -2.174872e-01
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## 309 -0.465912669 -0.77964171 -0.009967267 1.959271e+00 -2.840521e-01
## 310 -0.357606610 -1.17687210 -1.253497234 -5.690998e-01 -1.745559e-01
## 311 -0.756255730 -2.69020974 -2.993396460 -4.716456e-01 -3.511392e-01
## 312 -3.664960249 -0.97622332 0.114734735 4.754664e+00 1.775665e-01
## 313 -4.308025634 -3.07595562 -4.045524282 -5.165108e+00 -3.985282e+00
## 314 7.621775673 1.10236414 -0.396264852 -5.058742e-01 3.737391e+00
## 315 0.333279564 -3.10308818 -1.747334941 -1.372103e+00 4.344342e-01
## 316 0.097022630 -2.22377810 -2.312911217 -1.935588e+00 1.110015e-01
## 317 0.007376610 -1.84662893 -1.502485653 1.003104e+00 3.782998e-02
## 318 0.097022630 -1.72377810 -0.812911217 2.064412e+00 1.110015e-01
## 319 -0.140994492 -1.97133288 -1.240557169 -1.258410e-01 4.443656e-02
## 320 -0.211980471 -2.11426492 -1.363236008 -2.768266e-01 7.589712e-03
## 321 -0.372612470 -1.88004778 -1.175489282 2.010880e+00 -1.024287e-01
## 322 -0.282966451 -1.25719696 11.514085153 1.457219e+01 -2.925713e-02
## 323 12.325339608 10.34557265 22.770555186 2.404382e+01 8.023909e-02
## 324 14.649287773 10.74163562 1.595226156 2.322699e+00 7.360428e+00
## 325 -0.149173352 -6.51970303 -5.207345388 -7.503349e+00 5.430063e-01
## 326 1.267419106 -4.50552771 -5.358173201 -9.442371e+00 5.748514e-01
## 327 0.614837789 -3.18424214 -3.244803686 -5.108819e+00 1.066263e-01
## 328 0.667163728 -2.52122889 -0.189020444 -8.681556e-01 1.071484e-01
## 329 -0.532437811 -0.83798490 -0.553621671 4.339050e-01 -5.310535e-01
## 330 -1.187764093 -1.57879611 -3.288062446 -4.569215e+00 -8.105265e-01
## 331 0.268514608 -2.03456652 -1.928919670 -3.770701e+00 -6.943492e-02
## 332 -0.257100610 -1.13059256 -0.992184526 -5.519849e-02 -3.918392e-01

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## 333 -0.167454591 -1.00774173 1.697389910 7.006109e+00 -3.186676e-01
## 334 -5.405471713 0.74470349 0.769743958 5.815856e+00 -3.852326e-01
## 335 -6.428526178 -4.38844766 -8.563518688 -1.309614e+01 -5.688339e+00
## 336 10.817066502 0.90687435 0.008982373 -3.753863e+00 5.092150e+00
## 337 0.477254982 -3.59628521 -2.267978321 -4.606815e+00 2.908406e-01
## 338 -0.257100610 -2.63059256 -3.492184526 -4.555198e+00 -3.918392e-01
## 339 0.231194529 -1.99440409 -2.062710864 -3.091345e+00 -1.420843e-01
## 340 -0.115128652 -1.84472848 -2.246826848 -3.253227e+00 -3.181455e-01
## 341 -0.115128652 -1.84472848 -2.246826848 -2.753227e+00 -3.181455e-01
## 342 -0.115128652 -1.84472848 -2.246826848 -2.253227e+00 -3.181455e-01
## 343 -0.025482632 -2.22187766 -1.557252412 -2.191920e+00 -2.449739e-01
## 344 -0.025482632 -1.22187766 -1.057252412 -2.191920e+00 -2.449739e-01
## 345 -0.860100952 -1.70839051 -3.670842059 -5.317655e+00 -6.707900e-01
## 346 0.160208549 -2.13733613 -2.185389703 -3.242331e+00 -1.789311e-01
## 347 0.231194529 -1.49440409 -1.562710864 -2.591345e+00 -1.420843e-01
## 348 -0.532437811 -1.83798490 -2.053621671 -2.066095e+00 -5.310535e-01
## 349 0.231194529 -0.99440409 -0.062710864 4.086548e-01 -1.420843e-01
## 350 -0.770454933 -1.58553968 -2.481267623 -3.756348e+00 -5.976185e-01
## 351 -0.167454591 -2.00774173 -1.802610090 -2.493891e+00 -3.186676e-01
## 352 -0.167454591 -2.00774173 -2.302610090 -2.993891e+00 -3.186676e-01
## 353 -0.513777772 -1.85806612 -1.986726074 -1.155773e+00 -4.947288e-01
## 354 -4.250145431 -1.01448531 -0.995815267 -1.810233e-01 -1.057596e-01
## 355 -5.162148874 -2.98277007 -5.224797591 -8.284718e+00 -4.988122e+00
## 356 9.040532378 1.66284046 0.394270332 -1.684825e+00 4.109124e+00
## 357 0.107370003 -2.81524286 -1.633568036 -2.639542e+00 2.370861e-02
## 358 -0.115128652 -1.84472848 -2.246826848 -3.253227e+00 -3.181455e-01
## 359 -0.115128652 -1.84472848 -2.246826848 -3.253227e+00 -3.181455e-01
## 360 -0.115128652 -1.84472848 -2.246826848 -3.253227e+00 -3.181455e-01
## 361 -0.115128652 -1.84472848 -1.746826848 -2.253227e+00 -3.181455e-01
## 362 -0.115128652 -1.34472848 -0.746826848 -2.532273e-01 -3.181455e-01
## 363 -0.442791792 -1.21513408 -1.364047236 4.952125e-01 -4.578820e-01
## 364 -0.424131753 -1.73521530 -1.297151639 1.905534e+00 -4.215573e-01
## 365 0.191129485 -2.01633844 -2.044312347 -2.486609e-01 -2.598150e-02
## 366 -0.553842815 -3.38000046 -4.968327558 -3.813089e+00 -3.786260e-01
## 367 0.973421865 -3.69283884 -2.986505943 -3.363589e+00 3.993124e-01
## 368 0.280775504 -3.39348762 -3.854737912 -6.187353e+00 4.719004e-02
## 369 0.011837447 -2.76204009 -3.923461219 -5.371276e+00 -1.723246e-01
## 370 0.339500588 -2.89163449 -3.306240831 -4.619716e+00 -3.258807e-02
## 371 0.320840548 -2.37155327 -0.873136428 -3.003766e-02 -6.891276e-02
## 372 -0.025482632 -0.72187766 -0.057252412 1.308080e+00 -2.449739e-01
## 373 -1.008472055 -2.33309446 -3.908913575 -5.446600e+00 -6.641834e-01
## 374 0.268514608 -2.03456652 -2.428919670 -3.270701e+00 -6.943492e-02
## 375 -0.077808572 -2.38489091 -3.113035654 -4.432583e+00 -2.454961e-01
## 376 0.249854569 -2.01448531 0.004184733 2.818977e+00 -1.057596e-01
## 377 -4.596468612 0.13519030 0.820068749 5.657095e+00 -2.818208e-01
## 378 -5.638183117 -3.47787963 -6.080089494 -8.665224e+00 -5.121252e+00
## 379 9.257144496 0.86837968 -0.592789603 -3.741566e+00 4.328116e+00
## 380 0.144690082 -3.35540529 -2.499776842 -3.318898e+00 9.635799e-02
## 381 0.249854569 -2.01448531 -1.995815267 -1.681023e+00 -1.057596e-01
## 382 -0.006822593 -2.24195887 -2.490356816 -2.781598e+00 -2.086493e-01
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## 385 0.082823426 -2.11910805 -1.300782380 -7.202904e-01 -1.354777e-01
## 386 -0.424131753 -1.23521530 -1.297151639 1.905534e+00 -4.215573e-01

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## 387 -0.226179675 -2.50959486 -3.851107171 -4.061529e+00 -2.388895e-01
## 388 0.209789525 -4.03641965 -5.477416751 -9.338339e+00 1.034319e-02
## 389 0.685823768 -3.04131010 -3.122124847 -5.457834e+00 1.434731e-01
## 390 0.231194529 -1.99440409 -2.062710864 -3.091345e+00 -1.420843e-01
## 391 0.384871348 -1.84472848 -1.746826848 -2.753227e+00 -3.181455e-01
## 392 0.384871348 -1.34472848 -1.746826848 -2.753227e+00 -3.181455e-01
## 393 -1.470699437 -2.31876284 -3.409840517 -4.381019e+00 -1.479812e+00
## 394 0.231194529 -1.99440409 -2.062710864 -3.091345e+00 -1.420843e-01
## 395 -0.115128652 -1.84472848 -2.246826848 -3.253227e+00 -3.181455e-01
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## 397 -5.115128652 0.15527152 0.253173152 2.246773e+00 -3.181455e-01
## 398 -6.336135195 -3.20350006 -6.526133962 -9.698161e+00 -5.803920e+00
## 399 10.325117184 1.99394278 0.934605163 -2.080188e-01 4.733943e+00
## 400 0.183257741 -3.28359635 -1.396311064 -2.028034e+00 1.153016e-01
## 401 -0.025482632 -1.72187766 -1.557252412 -2.191920e+00 -2.449739e-01
## 402 -0.442791792 -1.71513408 -2.364047236 -3.004787e+00 -4.578820e-01
## 403 -0.096468612 -1.86480970 -2.179931251 -2.842905e+00 -2.818208e-01
## 404 -0.096468612 -1.86480970 -2.179931251 -2.842905e+00 -2.818208e-01
## 405 -0.096468612 -1.86480970 -2.679931251 -3.342905e+00 -2.818208e-01
## 406 -0.096468612 -2.36480970 -2.179931251 -1.842905e+00 -2.818208e-01
## 407 0.320840548 -1.37155327 -0.373136428 4.699623e-01 -6.891276e-02
## 408 -0.680808914 -1.96268886 -2.791693187 -3.695040e+00 -5.244469e-01
## 409 -0.077808572 -1.88489091 -2.113035654 -2.432583e+00 -2.454961e-01
## 410 -0.077808572 -1.88489091 -1.113035654 -9.325835e-01 -2.454961e-01
## 411 -0.077808572 -1.38489091 -0.113035654 5.674165e-01 -2.454961e-01
## 412 -0.822780873 -2.24855293 -2.537050865 -2.497011e+00 -5.981406e-01
## 413 -0.476457692 -39.39822855 -40.352934881 -3.933513e+01 -4.220794e-01
## 414 -0.059148532 -76.40497212 -76.046140058 -7.302226e+01 -2.091714e-01
## 415 5.790415143 -28.58904324 -28.281962292 -2.291384e+01 2.876746e+00
## 416 4.788765681 6.81982117 4.799480949 6.921154e+00 2.421212e+00
## 417 5.153748901 41.15006434 40.550492530 4.049336e+01 2.633598e+00
## 418 -4.070853393 -1.26878366 -0.616666396 1.441592e+00 4.058346e-02
## 419 -5.489812015 -2.85317567 -4.342017978 -3.036278e+00 -5.127859e+00
## 420 9.328130475 1.51131172 1.529889236 2.909420e+00 4.364963e+00
## 421 -0.260358182 -3.70758281 -3.232389907 -1.548418e+00 7.491723e-05
## 422 0.209789525 -3.53641965 -3.977416751 -3.838339e+00 1.034319e-02
## 423 0.716744704 -3.92031241 -3.481047492 -4.964164e+00 2.964228e-01
## 424 0.011837447 -2.26204009 -1.923461219 6.287240e-01 -1.723246e-01
## 425 0.191129485 -2.51633844 -2.044312347 -7.486609e-01 -2.598150e-02
## 426 -0.136533655 -2.88674404 -3.161532735 -2.500221e+00 -1.657180e-01
## 427 0.120143506 -2.65927048 -2.666991186 -8.996466e-01 -6.282834e-02
## 428 0.209789525 -3.03641965 -1.477416751 1.161661e+00 1.034319e-02
## 429 0.209789525 -1.53641965 0.522583249 4.661661e+00 1.034319e-02
## 430 -0.773199897 -2.14763646 -3.329077913 -1.593020e+00 -4.088663e-01
## 431 -0.151539516 -3.58991972 -5.083524783 -4.920241e+00 -9.359077e-02
## 432 0.939755965 -3.87593331 -4.475393588 -5.693931e+00 4.351149e-01
## 433 0.485126726 -3.82902731 -4.415979605 -6.827443e+00 1.495575e-01
## 434 0.794129827 -2.93854049 -1.365654814 -2.986204e+00 2.529693e-01
## 435 -0.167454591 -0.50774173 -0.302610090 1.506109e+00 -3.186676e-01
## 436 -0.822780873 -1.74855293 -3.537050865 -3.497011e+00 -5.981406e-01
## 437 0.376820667 -2.93179691 -4.172449638 -6.799072e+00 4.006131e-02
## 438 0.268514608 -3.03456652 -2.928919670 -2.770701e+00 -6.943492e-02
## 439 -3.422482291 -1.14407971 -0.378594879 2.070537e+00 3.397689e-02
## 440 -4.501516876 -3.21698721 -4.912544316 -7.072425e+00 -4.878104e+00

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## 441	7.845593591	0.95458897	0.543509938	8.996765e-01	3.057476e+00
## 442	0.286662041	-2.56954122	0.245580836	1.483073e+00	1.700517e-01
## 443	-0.591162895	-1.83983804	-2.102118752	-2.633733e+00	-4.512754e-01
## 444	-0.405471713	-1.75529651	-3.230256042	-3.184144e+00	-3.852326e-01
## 445	-0.059148532	-2.90497212	-4.046140058	-4.522262e+00	-2.091714e-01
## 446	0.775469787	-2.91845928	-2.432550411	-3.396526e+00	2.166447e-01
## 447	-0.006822593	-2.24195887	-1.990356816	-2.281598e+00	-2.086493e-01
## 448	-0.006822593	-1.74195887	11.009643184	1.121840e+01	2.913507e-01
## 449	12.075868247	10.76478470	23.702848361	2.540553e+01	5.784427e-01
## 450	14.592866732	11.49775362	4.358985666	5.756831e+00	7.486553e+00
## 451	-0.860920675	-5.00439622	-2.178026652	-1.572338e+00	-1.103415e-01
## 452	0.572278403	-2.73769489	-2.643749994	-1.514690e+00	2.264949e-01
## 453	1.161924422	-3.11484407	-1.954175558	-2.453383e+00	7.996665e-01
## 454	0.147775058	-2.12726851	-0.547651376	-3.798148e-01	-2.406845e-01
## 455	-0.776489281	-1.23663219	-1.350815458	-6.685777e-02	-7.396721e-01
## 456	-0.411506061	-1.90638901	-2.099803877	-1.494654e+00	-5.272863e-01
## 457	-0.065182880	-2.05606463	-1.915687893	-1.332772e+00	-3.512251e-01
## 458	-0.065182880	-2.05606463	0.584312107	3.667228e+00	-3.512251e-01
## 459	-4.565182880	0.44393537	1.084312107	5.167228e+00	-3.512251e-01
## 460	-6.203498584	-3.40809263	-6.501789830	-7.090573e+00	-5.549908e+00
## 461	9.872770529	1.27500391	1.783215692	3.120702e+00	4.501338e+00
## 462	-0.080701348	-2.77413379	-1.230075032	-2.909339e+00	-7.593595e-02
## 463	0.132769198	-4.33044420	-3.969643425	-8.299835e+00	-1.685573e-01
## 464	-0.655384935	-4.95618282	-5.108917749	-3.441280e+00	-7.907765e-01
## 465	0.058129039	-4.75011934	-4.737225812	-6.441122e+00	-3.138561e-01
## 466	-0.050177020	-4.85288895	-4.993695845	-2.412752e+00	-4.233523e-01
## 467	0.091794939	-3.06702487	-3.248338167	2.889219e+00	-3.496586e-01
## 468	0.700657033	-2.68698789	-2.488212714	1.908050e+00	1.262175e-01
## 469	0.648331093	-1.85000115	-1.543995956	6.673864e-01	1.256953e-01
## 470	0.775297192	-3.76731275	-3.220630327	-6.450662e+00	2.715162e-01
## 471	0.024463139	-5.43321381	-5.226113457	-6.271464e+00	-2.780535e-01
## 472	0.076789079	-5.27020055	-5.170330215	-6.530800e+00	-2.775314e-01
## 473	0.039468999	-4.23003812	-4.304121409	-3.851444e+00	-3.501808e-01
## 474	0.110454979	-4.08710609	-4.181442570	-7.004586e-01	-3.133339e-01
## 475	0.271086977	-2.32132322	-2.369189296	1.511834e+00	-2.033155e-01
## 476	0.719317073	-2.70706911	-2.421317117	-3.181628e+00	1.625421e-01
## 477	0.237421077	-3.50441769	-3.358076941	-3.318507e+00	-1.675130e-01
## 478	0.237421077	-4.00441769	-3.858076941	-4.818507e+00	-1.675130e-01
## 479	0.058129039	-3.75011934	-3.737225812	-4.411223e-01	-3.138561e-01
## 480	-3.870884982	-0.60718730	-0.614546973	2.098633e-01	-2.770092e-01
## 481	-3.333008867	-2.87008236	-2.477100359	-8.922292e+00	-3.837980e+00
## 482	6.832048029	-0.58987815	-1.826062577	1.677899e-01	2.762963e+00
## 483	-0.070597246	-3.45967259	-2.422661117	-3.949841e+00	-2.028093e-01
## 484	0.039468999	-3.73003812	-3.804121409	-5.851444e+00	-3.501808e-01
## 485	-0.229469058	-3.59859059	-3.872844716	-1.035367e+00	-5.696954e-01
## 486	0.091794939	-2.06702487	-2.248338167	3.892195e-01	-3.496586e-01
## 487	0.450379015	-2.57562158	-2.490040424	-3.865550e+00	-5.697246e-02
## 488	0.129115018	-3.60718730	-3.614546973	-3.790137e+00	-2.770092e-01
## 489	0.039468999	-3.23003812	-3.304121409	-3.351444e+00	-3.501808e-01
## 490	0.200100998	-2.96425526	-2.991868134	-6.391511e-01	-2.401624e-01
## 491	-0.050177020	-0.35288895	-0.493695845	4.087248e+00	-4.233523e-01
## 492	0.737977113	0.27284968	0.645578479	-4.271306e+00	1.988668e-01
## 493	-0.225814879	-2.32184749	-2.227941167	-5.045065e+00	-4.612435e-01
## 494	-0.494752936	-3.19039996	-3.296664474	-2.728987e+00	-6.807581e-01

## 495	-0.352780977	-1.90453588	-2.051306797	7.298392e-02	-6.070644e-01
## 496	0.058129039	-0.25011934	-0.237225812	-9.411223e-01	-3.138561e-01
## 497	-0.083842920	-1.53598341	-1.482583490	-2.243094e+00	-3.875498e-01
## 498	-0.334120938	-1.42461710	-1.484411200	1.483306e+00	-5.707397e-01
## 499	-3.583842920	0.46401659	0.517416510	3.756906e+00	-3.875498e-01
## 500	-3.385890842	1.18963702	1.463460978	2.789843e+00	-3.704882e+00
## 501	6.468982598	3.62628643	3.088956385	3.041355e+00	2.825884e+00
## 502	-0.337128704	-1.66345333	-0.316155460	-1.613682e+00	-2.601662e-01
## 503	-0.420112777	-0.27072482	-0.029082087	-1.087700e+00	-5.354593e-01
## 504	-0.509758797	0.10642436	0.281343478	1.850993e+00	-6.086309e-01
## 505	-0.599404816	1.98357353	2.091769042	4.789685e+00	-6.818024e-01
## 506	-0.151174720	1.09782765	1.539641220	-9.037772e-01	-3.159447e-01
## 507	-0.722716735	0.17762824	0.413306961	-1.019640e-01	-7.191714e-01
## 508	-0.651730755	0.82056028	1.035985800	5.490216e-01	-6.823245e-01
## 509	-0.741376775	1.19770946	1.346411364	6.987714e+00	-7.554961e-01
## 510	-0.651730755	5.82056028	6.035985800	9.049022e+00	-6.823245e-01
## 511	0.744729436	5.54906852	6.431730156	-2.837903e+00	5.493908e-01
## 512	-0.720174626	1.89983661	2.050899669	3.293935e+00	-3.434792e-01
## 513	-1.252427994	2.68476075	2.894183675	3.004383e+00	-1.053775e+00
## 514	-0.931163997	4.21632647	4.518690223	1.192897e+01	-3.337383e-01
## 515	11.247572006	12.18476075	12.394183675	2.350438e+01	-5.377503e-02
## 516	25.464604650	15.61013070	16.948415415	7.619025e+00	1.331806e+01
## 517	-0.453741904	0.94092623	4.803361904	2.320864e+00	-5.168648e-02
## 518	-0.676425143	2.68954899	3.099542368	1.828190e+00	-8.607029e-01
## 519	-0.997689140	2.15798327	2.475035819	2.903603e+00	-1.080740e+00
## 520	-0.908043121	6.28083409	6.664610255	5.964911e+00	-1.007568e+00
## 521	-0.908043121	9.78083409	10.164610255	9.964911e+00	4.992432e+00
## 522	-1.636562955	5.37159493	5.870926270	6.544733e+00	4.587639e+00
## 523	-0.650199590	3.49761234	2.423242381	2.366914e+00	-9.133817e-01
## 524	-0.688888895	-5.29141832	-4.684856972	-2.695931e+00	-4.128834e-01
## 525	-0.653254427	0.63696212	1.139857743	2.722401e+00	-8.284045e-01
## 526	-0.563608408	0.25981294	0.829432179	1.783709e+00	-7.552330e-01
## 527	-0.563608408	0.25981294	0.829432179	1.783709e+00	-7.552330e-01
## 528	-0.563608408	0.25981294	0.829432179	2.283709e+00	-7.552330e-01
## 529	-0.563608408	-0.74018706	-0.170567821	1.283709e+00	-7.552330e-01
## 530	-0.473962389	-2.11733624	-1.480993385	-1.654984e+00	-6.820615e-01
## 531	-0.421636449	0.54567701	1.074789857	2.585680e+00	-6.815393e-01
## 532	-0.511282469	1.92282619	2.385215421	5.524373e+00	-7.547109e-01
## 533	-0.384316370	-0.99448541	-0.291418950	4.063240e-01	-6.088899e-01
## 534	-0.473962389	-2.11733624	-1.480993385	-1.549835e-01	-6.820615e-01
## 535	-0.402976410	-2.47440420	-1.858314547	-1.003998e+00	-6.452146e-01
## 536	-0.261004451	-1.18854012	-0.612956869	-1.202027e+00	-7.152093e-02
## 537	-0.350650470	-0.31139095	0.197468695	-7.633342e-01	3.553075e-01
## 538	-0.516184228	0.53411171	0.770637288	1.563850e+00	1.905430e-01
## 539	-0.587170207	-0.60882032	-0.352041551	1.412865e+00	1.536962e-01
## 540	-0.426538209	0.15696254	0.460211723	1.625158e+00	2.637146e-01
## 541	-0.336892189	1.77981336	2.649786159	3.186465e+00	3.368861e-01
## 542	-0.497524188	2.51403050	3.337532884	5.474172e+00	-2.731323e-01
## 543	-1.038145267	-0.78517122	-0.647724019	7.696553e-01	-5.234093e-01
## 544	-0.473962389	-0.11733624	0.519006615	3.450165e-01	3.179385e-01
## 545	-0.049850128	-0.64898275	-0.218250358	-2.664914e-01	2.263456e-01
## 546	0.360503853	-1.77183358	-1.407824793	-8.277989e-01	1.531740e-01
## 547	-0.435785813	-0.96674743	-0.518685962	1.592483e-01	-7.218903e-01
## 548	-0.364799834	0.17618461	0.603992877	1.310234e+00	-6.850435e-01

## 549	-0.435785813	0.03325257	0.481314038	1.159248e+00	-7.218903e-01
## 550	-0.435785813	1.03325257	1.481314038	1.659248e+00	-7.218903e-01
## 551	-0.506771793	0.89032053	1.358635200	2.008263e+00	-7.587372e-01
## 552	-0.667403791	2.12453767	2.546381925	5.295970e+00	-8.687556e-01
## 553	-0.488111753	1.37023931	1.925530796	3.418585e+00	-7.224125e-01
## 554	-0.611423672	-1.93570598	-1.252931284	-1.973065e+00	-7.597815e-01
## 555	-0.488111753	-0.12976069	0.425530796	-8.141543e-02	-7.224125e-01
## 556	-0.738389771	-2.51839437	-2.076296914	-1.355016e+00	-9.056024e-01
## 557	-0.506771793	-4.60967947	-4.141364800	-4.991737e+00	-7.587372e-01
## 558	-0.383459874	-3.80373418	-3.462902720	-3.100088e+00	-7.213682e-01
## 559	-0.260147955	2.50221111	2.715559361	4.291561e+00	-6.839992e-01
## 560	-0.080855916	5.24791276	5.594708232	5.414176e+00	-5.376561e-01
## 561	-0.738389771	-0.01839437	0.423703086	1.449839e-01	-9.056024e-01
## 562	-0.667403791	0.62453767	1.046381925	2.959695e-01	-8.687556e-01
## 563	-0.757049811	5.00168684	5.356807489	5.734662e+00	-9.419271e-01
## 564	-0.757049811	8.50168684	8.856807489	1.023466e+01	-9.419271e-01
## 565	-1.235291627	1.98108136	2.564951215	3.588085e+00	-1.163530e+00
## 566	-1.074659628	-0.25313577	0.377204489	3.003778e-01	-1.053512e+00
## 567	-1.003673649	-2.61020374	-2.000116672	-2.548637e+00	-1.016665e+00
## 568	-0.809375750	-1.16132641	-0.698975752	-1.006002e+00	-9.424493e-01
## 569	-0.667403791	-1.37546233	-0.953618075	-1.704030e+00	-8.687556e-01
## 570	-0.686063831	-1.85538112	-1.520513672	-1.114352e+00	-9.050803e-01
## 571	-0.544091872	-1.56951704	-1.275155994	-8.123811e-01	-8.313866e-01
## 572	-0.383459874	-0.30373418	0.037097280	-1.000880e-01	-7.213682e-01
## 573	9.597880087	11.71634703	11.970201683	1.298959e+01	-7.576929e-01
## 574	19.474568167	18.91040174	19.291739603	2.009794e+01	9.204938e+00
## 575	-0.639397950	-3.92086561	-0.663535256	1.430734e+00	-4.703130e-01
## 576	-0.274586318	-3.97392864	-3.427611549	-2.011967e+00	-7.655702e-01
## 577	0.457031660	-4.06521374	-3.492679436	-3.148688e+00	-1.187049e-01
## 578	0.938371621	-3.54513252	-3.059575033	-2.059010e+00	8.449704e-01
## 579	0.084854255	0.20822589	0.659202423	7.268513e-01	4.146378e-01
## 580	0.098612536	3.29943020	3.611519887	2.676651e+00	3.962163e-01
## 581	-0.577581358	-0.94679571	-0.626380856	-1.002863e+00	-8.054685e-03
## 582	-0.506595379	-0.80386368	-0.503702017	-8.518778e-01	2.879216e-02
## 583	-0.596241398	0.07328550	0.306723547	1.586815e+00	-5.443794e-01
## 584	-0.935609399	11.33906836	11.618976821	1.229911e+01	-9.343610e-01
## 585	-1.001693620	14.58485080	15.110876116	1.560864e+01	-9.164617e-01
## 586	-1.072797602	-3.91586285	-2.676056250	-2.157451e+00	-7.778121e-01
## 587	-1.121907395	-1.22161875	0.073662164	-1.339904e+00	-1.211759e+00
## 588	-1.505550655	-2.53178071	-2.244245014	-1.822430e+00	-1.460469e+00
## 589	-0.946269536	-4.75266021	-4.192092514	-3.707591e+00	-1.173867e+00
## 590	-0.501693620	-3.41514920	-2.889123884	-3.391355e+00	-9.164617e-01
## 591	-0.378381701	-1.60920391	-1.210661803	-4.997062e-01	-8.790927e-01
## 592	-0.378381701	-1.60920391	-1.210661803	2.938455e-04	-8.790927e-01
## 593	-0.217749702	-0.84342105	-0.398408529	2.125870e-01	-7.690743e-01
## 594	-0.288735682	1.01364692	1.478912632	2.061601e+00	-8.059212e-01
## 595	-0.288735682	2.51364692	3.478912632	3.061601e+00	-8.059212e-01
## 596	-0.643665579	-3.20101327	-2.134481562	-2.693327e+00	-9.901554e-01
## 597	-1.098294818	-2.65410727	-2.575067578	-1.326838e+00	-1.275713e+00
## 598	-0.288735682	-1.48635308	-1.021087368	-1.438399e+00	-8.059212e-01
## 599	-0.449367680	-2.75213595	-2.333340642	-2.650692e+00	-9.159396e-01
## 600	-0.307395721	0.03372813	0.412017036	-3.487205e-01	-8.422459e-01
## 601	-0.397041740	0.41087731	0.722442600	5.899719e-01	-9.154174e-01
## 602	-0.609999679	-1.51791881	-1.145593917	-1.362985e+00	-1.025958e+00

## 603	-0.397041740	0.91087731	1.222442600	1.089972e+00	-9.154174e-01
## 604	-0.609999679	-2.51791881	-2.145593917	-1.862985e+00	-1.025958e+00
## 605	-0.968027720	0.76794527	1.099763761	1.938986e+00	-9.522642e-01
## 606	-1.307395721	1.03372813	1.412017036	1.651279e+00	-8.422459e-01
## 607	-0.224063993	-2.20015413	-1.845158312	-2.288725e+00	-7.772205e-02
## 608	0.130865904	-0.48549394	-0.231764118	-3.379652e-02	1.065122e-01
## 609	-1.180985658	-6.16085084	-5.768272755	-4.513970e+00	-1.062805e+00
## 610	0.933469862	-0.43384700	-0.174153166	-1.019532e+00	2.902243e-01
## 611	-0.165423762	0.31959221	0.657374713	-4.674933e-02	-7.685522e-01
## 612	-0.397041740	1.41087731	1.722442600	1.589972e+00	-9.154174e-01
## 613	-0.468027720	0.76794527	1.099763761	1.938986e+00	-9.522642e-01
## 614	-0.680985658	-1.66085084	-1.268272755	-1.397049e-02	-1.062805e+00
## 615	-0.288735682	1.51364692	1.978912632	1.561601e+00	-8.059212e-01
## 616	-0.520353660	4.60493202	5.043980519	4.698323e+00	-9.527864e-01
## 617	-0.662325618	6.81906794	7.298622842	6.396351e+00	-1.026480e+00
## 618	-1.177887514	-0.16137511	0.372975373	-5.708697e-01	-8.207327e-01
## 619	-1.248873493	-5.30430715	-4.749703466	-5.721855e+00	-3.575796e-01
## 620	-0.756873397	-0.69249736	-0.505529727	3.745216e-01	-1.543978e-01
## 621	-0.596241398	-0.42671450	-0.193276453	8.681472e-02	-4.437937e-02
## 622	-0.435609399	1.83906836	2.118976821	1.799108e+00	6.563901e-02
## 623	-0.596241398	4.07328550	4.306723547	4.586815e+00	-4.437937e-02
## 624	-0.719553317	2.76734021	3.128261466	2.195165e+00	-8.174838e-02
## 625	-0.951171295	1.85862531	2.193329353	1.831887e+00	-2.286136e-01
## 626	-0.951171295	0.85862531	1.193329353	8.318867e-01	-2.286136e-01
## 627	-0.951171295	-0.14137469	0.193329353	-1.681133e-01	-2.286136e-01
## 628	-0.809199336	2.64448939	2.938687031	3.133858e+00	-1.549199e-01
## 629	-0.809199336	3.14448939	3.438687031	4.133858e+00	-6.549199e-01
## 630	-0.932511255	-0.16145590	0.260224950	2.422086e-01	-6.922889e-01
## 631	-0.804297577	0.03320386	0.553265164	1.094380e+00	-1.001738e-01
## 632	-0.790539297	-0.87559183	-0.494417373	5.441798e-01	-1.185952e-01
## 633	-0.558921319	0.53312307	0.940514741	9.074585e-01	2.827000e-02
## 634	-0.558921319	1.03312307	1.440514741	9.074585e-01	2.827000e-02
## 635	-0.219553317	0.76734021	1.128261466	1.195165e+00	-8.174838e-02
## 636	-0.219553317	0.26734021	0.628261466	1.195165e+00	-8.174838e-02
## 637	-1.657814943	-0.71343772	-0.227957380	1.380241e+00	-1.030506e+00
## 638	-0.558921319	3.03312307	3.440514741	4.407459e+00	2.827000e-02
## 639	-0.469275299	2.65597390	3.130089176	2.968766e+00	1.014415e-01
## 640	-0.484837195	-4.32446916	-3.795558292	-3.998455e+00	-1.928111e-01
## 641	0.441078681	-0.96687693	-0.559485259	-1.092541e+00	2.827000e-02
## 642	-0.515842984	-0.42757365	0.017400298	1.822126e-01	-9.568127e-01
## 643	-0.515842984	1.57242635	2.017400298	1.682213e+00	-9.568127e-01
## 644	-0.515842984	2.07242635	2.517400298	2.182213e+00	-4.568127e-01
## 645	-0.889432921	-1.62215262	-1.162889493	-9.830373e-01	-1.773717e-01
## 646	11.926929318	12.02069862	12.347038923	1.148103e+01	-1.208102e-02
## 647	24.337283298	28.89784780	29.157464487	2.891972e+01	1.241475e+01
## 648	-0.822920844	3.94803059	7.807701203	8.422964e+00	3.114718e-01
## 649	-1.117837642	-2.55825005	-1.988471757	-1.190917e+00	-4.806857e-01
## 650	-0.744247705	-1.36367108	-0.808181966	-5.256666e-01	-2.601267e-01
## 651	-0.102275746	-0.57780700	-0.062824288	-2.236954e-01	-1.864330e-01
## 652	0.397724254	-2.57780700	-2.062824288	-2.223695e+00	-1.864330e-01
## 653	-0.559197411	-4.03850372	-3.485938731	-2.448941e+00	-1.171516e+00
## 654	-0.256593454	-2.48685678	-1.928327779	-1.934677e+00	-9.878037e-01
## 655	-0.185607474	-0.34392475	0.194351060	-2.836913e-01	-9.509569e-01
## 656	-0.346239473	0.39029239	0.882097785	1.504016e+00	-1.060975e+00

## 657	-0.488211432	0.60442832	1.136740108	2.202044e+00	-1.134669e+00
## 658	-0.398565412	0.72727914	1.326314543	1.263352e+00	-1.061497e+00
## 659	-0.611523351	-2.20151697	-1.541721973	-2.189605e+00	-1.172038e+00
## 660	-0.559197411	-0.03850372	0.514061269	5.510587e-01	-6.715158e-01
## 661	-0.559197411	-0.03850372	0.514061269	1.051059e+00	-1.715158e-01
## 662	-0.616425110	-1.09023145	-0.656300106	-1.501273e-01	-2.267841e-01
## 663	-0.455793111	-1.82444859	-1.344046832	-1.437834e+00	-1.167657e-01
## 664	-0.545439130	-1.94729941	-1.533621268	-4.991417e-01	3.100628e-01
## 665	0.186178848	-0.03858451	0.401310846	8.641370e-01	9.569280e-01
## 666	0.628951149	-0.09031224	0.230949470	6.629510e-01	9.016597e-01
## 667	-0.380296456	-1.21402221	-0.747948215	-8.029586e-01	-8.394516e-02
## 668	-0.380296456	-1.21402221	-0.747948215	-1.302959e+00	-8.394516e-02
## 669	-0.469942475	0.16312696	0.562477350	1.635734e+00	-1.571167e-01
## 670	-0.469942475	1.66312696	2.062477350	3.635734e+00	-1.571167e-01
## 671	-0.432622396	2.12296453	2.696268543	1.956378e+00	-8.446732e-02
## 672	-0.593254394	3.35718167	3.884015269	3.244085e+00	-6.944857e-01
## 673	-0.966844331	0.16260270	0.703725478	7.883465e-02	-9.150446e-01
## 674	-0.909616632	-2.78566957	-2.125913147	-2.219979e+00	-3.597763e-01
## 675	-0.914518391	-2.67438405	-2.240491280	-1.180502e+00	-4.145225e-01
## 676	-0.309310477	1.92890982	2.374730624	1.848027e+00	-4.709832e-02
## 677	-0.682900413	-1.76566915	-1.305559167	-3.172229e-01	-7.676572e-01
## 678	-0.611914434	-2.12273711	-1.682880328	3.337627e-01	-7.308104e-01
## 679	-0.304408717	2.81762430	3.489308758	3.808549e+00	7.647806e-03
## 680	-0.290650437	6.90882861	7.441626221	6.758349e+00	-1.077363e-02
## 681	-1.019170271	-0.50041056	0.147942236	-1.618291e-01	-4.155668e-01
## 682	-1.037830310	-2.98032934	-2.418953361	-1.572151e+00	-4.518915e-01
## 683	-0.735226353	-3.92868240	-3.361342409	-3.557887e+00	-2.681794e-01
## 684	-0.451282435	0.64304575	1.129372947	5.460558e-01	-1.207920e-01
## 685	-0.469942475	2.16312696	2.562477350	3.135734e+00	-1.571167e-01
## 686	-0.824872372	-3.55153323	-3.050916844	-2.119194e+00	-3.413509e-01
## 687	-0.451282435	-0.85695425	-0.370627053	-9.539442e-01	-1.207920e-01
## 688	-0.380296456	2.78597779	3.252051785	2.197041e+00	-8.394516e-02
## 689	-0.701560453	6.25441206	6.627545237	7.272455e+00	-3.039819e-01
## 690	-0.895858352	2.80553474	3.326404317	3.229820e+00	-3.781978e-01
## 691	-1.179802269	-1.76619342	-1.164311038	1.258778e-01	-1.025585e+00
## 692	5.175127628	7.44846677	0.949083156	1.380806e+00	-8.413509e-01
## 693	9.859321425	9.08288290	-2.057189840	-6.036057e+00	5.359738e+00
## 694	-2.272807431	-0.87616457	-0.881710410	-9.525767e-01	1.657597e-01
## 695	-6.191974189	-3.33188094	-1.074025710	-1.207537e+00	-3.394847e+00
## 696	-2.490786292	0.55424175	0.942214052	4.157430e-02	-2.371928e+00
## 697	-0.831992381	2.59986068	0.843613670	1.028128e+00	-1.692545e+00
## 698	0.980011136	2.79267939	1.667146522	1.214787e+00	-6.751403e-01
## 699	5.388072691	7.16222584	1.495043661	1.061745e+00	-4.478372e-01
## 700	9.963569346	12.27265222	1.591142278	6.966202e-01	3.584983e+00
## 701	5.496204802	6.04009900	0.678649970	-5.690754e-01	2.288351e+00
## 702	8.582874079	10.13359905	-0.775183824	-1.363020e+00	6.150239e-01
## 703	13.856005905	16.09613682	9.117437980	9.027739e+00	6.174817e+00
## 704	7.830924729	9.06994351	17.271989037	1.789448e+01	2.693573e+00
## 705	2.317667084	2.46136678	0.473261971	2.992690e-01	-4.213554e-01
## 706	1.773708733	2.75893100	-0.007377200	-1.184966e-01	-1.243889e-01
## 707	1.963671584	2.53075691	-0.262832012	-3.630991e-01	-5.305643e-01
## 708	27.991188146	30.71316552	-0.358197085	-9.634999e-01	4.325928e-01
## 709	59.307311256	63.95225843	-0.702402809	-1.269584e+00	2.488720e+01
## 710	18.533552268	17.39043648	-8.356021468	-6.935859e+00	1.934659e+01

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## 711 -23.067964354 -22.88330050 -13.632116780 -1.268020e+01 -5.591767e+00
## 712 -16.915668244 -10.04871598 -8.383820278 -8.120940e+00 -9.340520e+00
## 713 -2.291015095 1.52600622 -1.461509585 -1.657028e+00 -3.388725e+00
## 714 3.643526732 4.06608202 0.870549192 6.254739e-01 -3.518005e-01
## 715 2.544535258 2.99882901 0.580640167 4.085100e-01 1.018852e+00
## 716 -3.142025141 -1.19090094 -0.387252338 -9.659406e-01 -1.784840e+00
## 717 -2.464853503 -0.58439869 0.122442086 -1.045734e+00 -2.364374e+00
## 718 1.026364151 3.76082259 1.276339829 6.645672e-01 -1.388129e+00
## 719 0.138766129 5.13688528 1.235271454 6.532863e-01 -8.926054e-03
## 720 -2.598079665 0.29649780 1.271310822 1.179807e+00 -2.298833e+00
## 721 0.157272138 2.44224929 2.000790644 2.303255e+00 -1.087249e+00
## 722 -0.500761327 1.99963411 1.512863257 1.241600e+00 -1.292514e+00
## 723 0.345561854 0.84995850 1.696979241 9.034824e-01 -1.116453e+00
## 724 1.499238673 0.99963411 1.512863257 2.416003e-01 -7.925138e-01
## 725 0.125007848 1.04568097 1.282953991 7.034867e-01 -4.905046e-01
## 726 -2.891433942 -0.97434620 0.706949747 1.853203e-01 -2.230381e+00
## 727 -1.833717310 0.31929389 1.139906382 5.528855e-01 -2.045769e+00
## 728 -1.769295426 0.76733882 1.407374316 8.063282e-01 -1.736229e+00
## 729 7.563269474 9.52645890 1.639172837 1.018411e+00 -2.041747e+00
## 730 12.155207919 14.15691245 1.811275699 1.671453e+00 7.730950e+00
## 731 -7.605380818 -6.91290923 -1.410996138 -6.861434e-01 -2.931869e+00
## 732 -4.243004570 -2.12218756 -0.734258416 -1.395182e+00 -3.209039e+00
## 733 -2.689038168 -0.19303805 0.638750671 -5.866086e-01 -2.046283e+00
## 734 -2.422972246 -0.88233679 1.591490301 9.682103e-01 -2.560168e+00
## 735 -1.252853636 -0.21263401 1.983378561 1.324495e+00 -1.496353e+00
## 736 -0.218631823 0.12417945 1.722524787 1.109971e+00 -2.408268e+00
## 737 0.887064902 1.84583730 1.846945113 1.712813e+00 3.460074e-01
## 738 -4.779031964 -2.09828351 0.665881372 1.174039e+00 -3.351178e+00
## 739 -1.213871220 0.05337619 1.357802525 1.082159e+00 -1.751142e+00
## 740 0.884772477 2.33823458 1.364416687 1.121078e+00 -1.853518e+00
## 741 1.731095657 2.68855896 1.548532671 1.282961e+00 8.225433e-01
## 742 -3.574919749 -2.31403315 0.503902378 3.558688e-01 -2.717002e+00
## 743 -0.792051385 0.01412696 1.138017127 8.789166e-01 -1.542261e+00
## 744 -1.193407688 0.29898534 1.144631288 9.178361e-01 -1.644636e+00
## 745 -1.193407688 -0.20101466 1.144631288 9.178361e-01 -1.644636e+00
## 746 -0.847084507 -1.35069028 1.328747273 1.079718e+00 -1.468575e+00
## 747 -1.539730868 -1.55133905 0.960515304 7.559540e-01 -1.820697e+00
## 748 7.460269132 8.44866095 0.960515304 7.559540e-01 -1.820697e+00
## 749 6.613945951 9.09833657 0.776399320 5.940719e-01 7.003241e+00
## 750 -12.501976518 -12.69885410 -1.769104239 -1.675036e+00 -6.877119e+00
## 751 -1.353820190 1.07111642 0.458448494 1.672709e-01 -2.203525e+00
## 752 -1.615227523 -0.66176542 1.364416687 1.121078e+00 -1.853518e+00
## 753 -1.115227523 -0.66176542 1.364416687 1.121078e+00 -1.853518e+00
## 754 -1.115227523 -0.16176542 1.364416687 1.121078e+00 -1.353518e+00
## 755 -2.553489149 -0.64254336 1.008197840 8.061544e-01 -2.302276e+00
## 756 -0.755146062 -0.22023673 1.500850134 1.232760e+00 -1.695878e+00
## 757 -0.115227523 0.83823458 1.364416687 1.121078e+00 -1.353518e+00
## 758 0.292834032 1.70778103 1.192313825 9.680365e-01 -1.126215e+00
## 759 2.214653867 4.16853179 0.972528427 7.647942e-01 -9.173331e-01
## 760 1.482796883 2.97960694 0.936859013 7.234340e-01 9.676098e-01
## 761 -2.371198616 -1.45100293 0.200765029 6.106592e-02 -2.641599e+00
## 762 4.643526732 5.06608202 0.870549192 6.254739e-01 -3.518005e-01
## 763 4.544535258 4.49882901 1.080640167 4.085100e-01 2.018852e+00
## 764 -3.325902031 -2.45180804 0.268541939 -7.720244e-01 -1.830234e+00

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## 765	-4.974492191	-2.12932880	0.002386047	-4.882763e-01	-3.908751e+00
## 766	-2.223509908	0.50844608	0.737746486	6.396170e-01	-2.295520e+00
## 767	-0.840281406	0.62440678	0.784695477	1.155343e+00	-1.773076e+00
## 768	2.152915493	2.14930972	1.828747273	1.079718e+00	-9.685750e-01
## 769	11.214653867	14.16853179	1.972528427	7.647942e-01	5.826669e-01
## 770	7.507380008	13.27149028	1.555949200	5.663688e-01	7.011317e+00
## 771	-7.330662907	-6.84900290	-0.283730828	-1.111811e+00	-4.869151e+00
## 772	2.335512450	5.51796386	-0.792298812	-8.241117e-01	-3.791574e-01
## 773	1.149362766	3.61529843	0.609030698	8.648990e-02	-4.645215e-01
## 774	1.523202508	3.14803143	0.697781609	1.479712e-01	-3.253032e-01
## 775	1.176879328	3.29770705	0.513665625	-1.391089e-02	-5.013644e-01
## 776	0.676879328	2.79770705	0.513665625	-1.391089e-02	-5.013644e-01
## 777	0.176879328	2.29770705	0.513665625	-1.391089e-02	-1.001364e+00
## 778	-0.231182227	2.42816059	0.685768486	1.391310e-01	-7.286675e-01
## 779	-1.244940508	1.83695629	0.733451023	1.893314e-01	-1.710246e+00
## 780	1.785259562	4.44818776	1.261772731	6.572974e-01	-9.887912e-01
## 781	3.257743001	5.76577915	1.357137804	7.576982e-01	5.480517e-01
## 782	3.481927666	5.37441851	0.840829218	2.985724e-01	-2.700389e-01
## 783	5.023202508	7.14803143	1.197781609	6.479712e-01	1.674697e+00
## 784	0.809125548	1.27589287	1.325254178	8.739214e-01	-9.215187e-02
## 785	0.385111136	-2.37176840	1.183948055	1.175176e+00	7.001241e-02
## 786	-0.593695317	-1.44694397	0.848461570	1.409182e+00	5.406136e-01
## 787	-0.850372478	-1.67441753	-0.646079979	-6.913925e-01	-5.622760e-01
## 788	-1.684990798	-2.66093038	-4.259669625	-4.317128e+00	-1.488092e+00
## 789	-0.043270720	-0.37031330	1.062874740	1.034744e+00	4.003829e-01
## 790	0.470487561	-0.27910899	3.515192204	3.484543e+00	1.881961e+00
## 791	-0.338667617	-1.31060599	15.424446359	1.534475e+01	1.618797e+01
## 792	-2.013045022	-0.95255612	15.981951633	1.595468e+01	1.781340e+01
## 793	-14.690809257	-15.65229864	-22.697861305	-2.303845e+01	-1.348551e+00
## 794	-7.407085616	-7.17770720	-6.163090910	-6.274229e+00	-1.296639e+00
## 795	-3.925128319	-4.04768455	-5.056770024	-5.209789e+00	-1.280534e+00
## 796	-0.996628859	-2.73905465	-0.332799307	-4.791240e-01	1.361714e+00
## 797	-1.785724341	-2.03765130	0.153446084	6.017994e-02	1.740921e+00
## 798	-3.175516940	-2.84849911	-2.248713813	-2.353089e+00	-8.829633e-03
## 799	-2.333704435	-2.46566907	-3.038017607	-2.675096e+00	-3.287421e-01
## 800	-0.934664232	-1.53111129	-2.656960026	-2.295918e+00	-5.933863e-01
## 801	-0.024158173	-1.01295192	-1.306113408	-2.058675e+00	-5.759773e-01
## 802	0.929665225	1.32472068	4.722356068	4.631404e+00	4.424541e+00
## 803	1.372437527	1.27299295	6.051994693	5.930218e+00	6.369273e+00
## 804	-3.943397276	-4.60638319	-4.982507266	-5.143479e+00	-2.580863e-01
## 805	-1.333704435	-1.96566907	-2.538017607	-2.675096e+00	-3.287421e-01
## 806	-1.276476736	-1.41394133	-3.367656232	-3.473910e+00	-2.273474e+00
## 807	-0.219500918	-0.85746060	-1.620108169	-1.722824e+00	-2.403424e+00
## 808	-1.079582379	-1.29898929	-2.756541616	-2.834506e+00	-3.061064e+00
## 809	0.679539285	0.07709718	-0.739050588	-8.436458e-01	-1.668068e+00
## 810	0.833216105	0.72677279	1.076833428	9.944720e-01	1.558704e-01
## 811	1.679539285	0.57709718	3.760949412	3.656354e+00	1.831932e+00
## 812	-0.872925857	-1.51188922	0.486821128	3.891577e-01	-5.421444e-01
## 813	-0.803993298	-1.59634995	4.227708841	4.126490e+00	3.763369e+00
## 814	-1.303993298	-1.59634995	3.227708841	3.126490e+00	3.763369e+00
## 815	-6.527889655	-6.34527254	-10.634690257	-1.079416e+01	-4.091293e+00
## 816	-0.531113352	-0.62905917	-1.302482666	-1.432850e+00	1.379432e-01
## 817	-0.627562473	-0.72700705	0.051994693	-6.978207e-02	8.692726e-01
## 818	-1.113804193	-1.13580275	0.504312157	3.800175e-01	3.508512e-01

```

## 819 -0.939174907 -0.49860562 -0.130379805 -2.798083e-01 4.106400e-01
## 820 -0.952933188 -0.58980993 -0.582697268 -7.296079e-01 -7.093855e-02
## 821 -0.606610008 -1.73948555 -0.898581284 -1.067726e+00 -8.948774e-01
## 822 -0.549382309 -1.68775782 -1.228219909 -1.366540e+00 -2.339609e+00
## 823 -1.409463770 -1.62928651 -3.364653356 -3.478221e+00 -3.497249e+00
## 824 -0.102362012 0.17481772 0.344301363 2.479148e-01 -3.458990e-02
## 825 2.170517933 2.64210850 4.314109855 4.188574e+00 3.339984e+00
## 826 -1.934664232 -1.53111129 -3.156960026 -3.295918e+00 -2.093386e+00
## 827 -0.189300848 -0.74622912 -2.591786461 -2.754858e+00 -2.181969e+00
## 828 0.757719449 0.61634642 -0.519265189 -6.404035e-01 -1.376950e+00
## 829 1.675028609 1.60960284 2.787529634 2.672464e+00 3.359579e-01
## 830 0.262230125 0.08384075 3.454154589 3.343486e+00 1.119024e+00
## 831 -0.962180793 -1.21351990 3.438405047 3.304483e+00 2.443457e+00
## 832 -1.769282551 -2.51762413 1.729450328 1.578346e+00 2.480798e+00
## 833 -1.993693469 -3.31498479 2.713700786 2.539342e+00 5.305231e+00
## 834 -0.601847451 -0.77674421 3.997651807 3.866264e+00 5.786315e+00
## 835 -5.848749694 -5.24058108 -5.295962439 -5.470100e+00 2.464469e+00
## 836 0.987155604 1.42963948 13.623254576 1.350084e+01 1.311550e+01
## 837 -2.725035893 -3.95547158 8.831381816 8.616331e+00 1.401108e+01
## 838 -6.098361074 -6.93976652 -1.104018651 -1.326801e+00 7.692765e+00
## 839 -8.747275337 -8.62670080 -10.523669576 -1.073093e+01 -9.499814e-01
## 840 -2.952644881 -3.23009316 -0.461404951 -6.093885e-01 1.756309e+00
## 841 -3.076610563 -4.01044966 -2.011562519 -2.145920e+00 2.448112e-02
## 842 -4.562852282 -5.41924535 -7.559245055 -7.696120e+00 -4.993940e+00
## 843 -2.299482622 -2.12885561 -1.798871380 -1.889620e+00 -7.406573e-01
## 844 3.165781004 2.98589287 8.808631949 8.706555e+00 7.850353e+00
## 845 -1.136295517 -1.80227896 1.726447453 1.582657e+00 4.704573e+00
## 846 -2.131784842 -3.83478462 0.699867231 5.665473e-01 3.200546e+00
## 847 -2.895417182 -3.67836543 -2.791043576 -2.908203e+00 -1.884229e-01
## 848 -3.338189483 -2.12663770 -5.120682201 -5.207017e+00 -3.133155e+00
## 849 -1.545097886 -1.40898477 -2.286858257 -2.380779e+00 -2.337293e+00
## 850 0.214023778 -1.03289830 0.730632771 6.100804e-01 -4.442974e-01
## 851 -0.132299402 -1.88322269 2.046516787 1.948198e+00 3.796414e-01
## 852 -1.299482622 -3.12885561 0.201128620 1.103803e-01 -2.406573e-01
## 853 -2.049356681 -3.38123211 -1.837464724 -1.914570e+00 -1.648048e+00
## 854 -2.145805802 -2.97918000 -1.982987364 -2.051502e+00 -2.416718e+00
## 855 -1.742254923 -2.57712788 5.871489995 5.811566e+00 5.314611e+00
## 856 -12.900442418 -14.19429783 -2.417813799 -2.510442e+00 -3.505301e+00
## [[1]]
##          EFRF          OBRF          TGCR          BGCR          SOFR
## EFRF    0.93826163  0.48077793  0.35621885  0.3149240  0.94875805
## OBRF   -0.34632318  0.14967561 -0.18411598 -0.1618821 -0.17606119
## TGCR    0.50695518  0.11610725  0.49636926 -0.1258248  0.28607957
## BGCR   -0.08964602  0.37714918  0.31042556  0.9386925 -0.07317154
## SOFR   -0.01375828 -0.09120431  0.04768254  0.0502004  0.01842143
## ones_v  1.70315674 -7.28194775 -6.49629624 -3.8507520  0.40379355
##
## [[2]]
##          [,1]          [,2]          [,3]          [,4]          [,5]
## [1,] 0.08556038 0.12783197 0.11959814 0.11440623 0.05563631
## [2,] 0.12711246 0.14277436 0.12501876 0.11943073 0.06344606
## [3,] 0.16451077 0.18095942 0.16927864 0.19906795 0.07897477
## [4,] 0.07189806 0.10868792 0.12204976 0.17138221 0.03696992
## [5,] 0.08718212 0.08105739 0.06744875 0.06563176 0.05579475

```

```

## [6,] 0.69139070 2.18685331 2.18820822 2.18892610 0.35456302
##
## [[3]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999962 0.9999911 0.9999919 0.9999909 0.9999987
##
## [[4]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## [1,] 0.9999962 0.9999911 0.9999918 0.9999908 0.9999987
##
## [[5]]
##          EFFR          OBFR          TGCR          BGCR          SOFR
## EFFR    0.0073205786 -0.005838377  0.006228532 -0.0005610576 -0.007070394
## OBFR    -0.0058383770  0.016157578 -0.018232637  0.0018688234  0.006102878
## TGCR     0.0062285322 -0.018232637  0.027063793 -0.0074977812 -0.007814463
## BGCR    -0.0005610576  0.001868823 -0.007497781  0.0051693309  0.001165014
## SOFR    -0.0070703943  0.006102878 -0.007814463  0.0011650138  0.007600722
## ones_v -0.0100580912 -0.010739615  0.059186596 -0.0357242050 -0.004911608
##          ones_v          EFFR          OBFR          TGCR          BGCR
## EFFR    -0.010058091  0.016341013 -0.012033593 -0.004195512  0.005494824
## OBFR    -0.010739615 -0.012033593  0.020384518 -0.007120563 -0.004154520
## TGCR     0.059186596 -0.004195512 -0.007120563  0.032746311 -0.015337323
## BGCR    -0.035724205  0.005494824 -0.004154520 -0.015337323  0.011813064
## SOFR    -0.004911608 -0.004615976  0.002207104 -0.007005420  0.002879096
## ones_v  0.478021103 -0.222135183  0.173488640  0.224132181 -0.173984863
##          SOFR          ones_v          EFFR          OBFR          TGCR
## EFFR    -0.004615976 -0.22213518  0.014303715 -9.836910e-03 -0.006790840
## OBFR     0.002207104  0.17348864 -0.009836910  1.562969e-02 -0.001691496
## TGCR    -0.007005420  0.22413218 -0.006790840 -1.691496e-03  0.028655259
## BGCR     0.002879096 -0.17398486  0.006051270 -4.867170e-03 -0.017349618
## SOFR     0.006570301 -0.02195958 -0.002788004 -2.521284e-05 -0.003702889
## ones_v -0.021959577  4.78232738 -0.217523877  1.817872e-01  0.223362192
##          BGCR          SOFR          ones_v          EFFR          OBFR
## EFFR     0.006051270 -2.788004e-03 -0.21752388  0.013088784 -9.059431e-03
## OBFR    -0.004867170 -2.521284e-05  0.18178716 -0.009059431  1.426370e-02
## TGCR    -0.017349618 -3.702889e-03  0.22336219 -0.007115245 -1.996263e-04
## BGCR     0.014896144  2.028029e-03 -0.18806136  0.006653558 -5.835176e-03
## SOFR     0.002028029  4.549334e-03 -0.01991596 -0.002706847  8.291566e-05
## ones_v -0.188061363 -1.991596e-02  4.78825519 -0.200546360  1.720681e-01
##          TGCR          BGCR          SOFR          ones_v          EFFR
## EFFR    -0.0071152452  0.006653558 -2.706847e-03 -0.20054636  3.095400e-03
## OBFR    -0.0001996263 -0.005835176  8.291566e-05  0.17206809  1.167348e-04
## TGCR     0.0396280469 -0.030474489 -2.918571e-03  0.27951652 -2.412659e-04
## BGCR    -0.0304744886  0.029371863  1.286291e-03 -0.25468866  7.577271e-05
## SOFR    -0.0029185709  0.001286291  4.307528e-03 -0.01648142 -3.009160e-03
## ones_v  0.2795165191 -0.254688655 -1.648142e-02  4.79139746 -4.729213e-03
##          OBFR          TGCR          BGCR          SOFR          ones_v
## EFFR     0.0001167348 -2.412659e-04  7.577271e-05 -3.009160e-03 -0.0047292127
## OBFR     0.0040254027 -4.242068e-03  2.724732e-04 -1.595705e-04 -0.0010682929
## TGCR    -0.0042420680  6.237015e-03 -1.765060e-03 -5.238515e-05  0.0136219816
## BGCR     0.0002724732 -1.765060e-03  1.366775e-03  8.782441e-05 -0.0093704154
## SOFR    -0.0001595705 -5.238515e-05  8.782441e-05  3.113055e-03  0.0009007156
## ones_v -0.0010682929  1.362198e-02 -9.370415e-03  9.007156e-04  0.1257149337
##

```

```
## [[6]]
##           [,1] [,2] [,3]
## [1,]  751636.9    6    0
## [2,]  358615.3    6    0
## [3,]  653153.1    6    0
## [4,]  637468.4    6    0
## [5,] 2994165.5    6    0
```

```
print(result[[1]]) # bv
```

```
##           EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR    0.93826163  0.48077793  0.35621885  0.3149240  0.94875805
## OBFR   -0.34632318  0.14967561 -0.18411598 -0.1618821 -0.17606119
## TGCR    0.50695518  0.11610725  0.49636926 -0.1258248  0.28607957
## BGCR   -0.08964602  0.37714918  0.31042556  0.9386925 -0.07317154
## SOFR   -0.01375828 -0.09120431  0.04768254  0.0502004  0.01842143
## ones_v  1.70315674 -7.28194775 -6.49629624 -3.8507520  0.40379355
```

```
print(result[[2]]) # sebv
```

```
##           [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.08556038 0.12783197 0.11959814 0.11440623 0.05563631
## [2,] 0.12711246 0.14277436 0.12501876 0.11943073 0.06344606
## [3,] 0.16451077 0.18095942 0.16927864 0.19906795 0.07897477
## [4,] 0.07189806 0.10868792 0.12204976 0.17138221 0.03696992
## [5,] 0.08718212 0.08105739 0.06744875 0.06563176 0.05579475
## [6,] 0.69139070 2.18685331 2.18820822 2.18892610 0.35456302
```

```
print(result[[4]]) # R2adj
```

```
##           EFFR      OBFR      TGCR      BGCR      SOFR
## [1,] 0.9999962 0.9999911 0.9999918 0.9999908 0.9999987
```

```
print(result[[5]]) # v covariance
```

```
##           EFFR      OBFR      TGCR      BGCR      SOFR
## EFFR    0.0073205786 -0.005838377  0.006228532 -0.0005610576 -0.007070394
## OBFR   -0.0058383770  0.016157578 -0.018232637  0.0018688234  0.006102878
## TGCR    0.0062285322 -0.018232637  0.027063793 -0.0074977812 -0.007814463
## BGCR   -0.0005610576  0.001868823 -0.007497781  0.0051693309  0.001165014
## SOFR   -0.0070703943  0.006102878 -0.007814463  0.0011650138  0.007600722
## ones_v -0.0100580912 -0.010739615  0.059186596 -0.0357242050 -0.004911608
##           ones_v      EFFR      OBFR      TGCR      BGCR
## EFFR   -0.010058091  0.016341013 -0.012033593 -0.004195512  0.005494824
## OBFR   -0.010739615 -0.012033593  0.020384518 -0.007120563 -0.004154520
## TGCR    0.059186596 -0.004195512 -0.007120563  0.032746311 -0.015337323
## BGCR   -0.035724205  0.005494824 -0.004154520 -0.015337323  0.011813064
## SOFR   -0.004911608 -0.004615976  0.002207104 -0.007005420  0.002879096
## ones_v  0.478021103 -0.222135183  0.173488640  0.224132181 -0.173984863
##           SOFR      ones_v      EFFR      OBFR      TGCR
## EFFR   -0.004615976 -0.22213518  0.014303715 -9.836910e-03 -0.006790840
```

```
## OBFR      0.002207104  0.17348864 -0.009836910  1.562969e-02 -0.001691496
## TGCR      -0.007005420  0.22413218 -0.006790840 -1.691496e-03  0.028655259
## BGCR      0.002879096 -0.17398486  0.006051270 -4.867170e-03 -0.017349618
## SOFR      0.006570301 -0.02195958 -0.002788004 -2.521284e-05 -0.003702889
## ones_v    -0.021959577  4.78232738 -0.217523877  1.817872e-01  0.223362192
##           BGCR      SOFR      ones_v      EFR      OBFR
## EFR      0.006051270 -2.788004e-03 -0.21752388  0.013088784 -9.059431e-03
## OBFR      -0.004867170 -2.521284e-05  0.18178716 -0.009059431  1.426370e-02
## TGCR      -0.017349618 -3.702889e-03  0.22336219 -0.007115245 -1.996263e-04
## BGCR      0.014896144  2.028029e-03 -0.18806136  0.006653558 -5.835176e-03
## SOFR      0.002028029  4.549334e-03 -0.01991596 -0.002706847  8.291566e-05
## ones_v    -0.188061363 -1.991596e-02  4.78825519 -0.200546360  1.720681e-01
##           TGCR      BGCR      SOFR      ones_v      EFR
## EFR      -0.0071152452  0.006653558 -2.706847e-03 -0.20054636  3.095400e-03
## OBFR      -0.0001996263 -0.005835176  8.291566e-05  0.17206809  1.167348e-04
## TGCR      0.0396280469 -0.030474489 -2.918571e-03  0.27951652 -2.412659e-04
## BGCR      -0.0304744886  0.029371863  1.286291e-03 -0.25468866  7.577271e-05
## SOFR      -0.0029185709  0.001286291  4.307528e-03 -0.01648142 -3.009160e-03
## ones_v    0.2795165191 -0.254688655 -1.648142e-02  4.79139746 -4.729213e-03
##           OBFR      TGCR      BGCR      SOFR      ones_v
## EFR      0.0001167348 -2.412659e-04  7.577271e-05 -3.009160e-03 -0.0047292127
## OBFR      0.0040254027 -4.242068e-03  2.724732e-04 -1.595705e-04 -0.0010682929
## TGCR      -0.0042420680  6.237015e-03 -1.765060e-03 -5.238515e-05  0.0136219816
## BGCR      0.0002724732 -1.765060e-03  1.366775e-03  8.782441e-05 -0.0093704154
## SOFR      -0.0001595705 -5.238515e-05  8.782441e-05  3.113055e-03  0.0009007156
## ones_v    -0.0010682929  1.362198e-02 -9.370415e-03  9.007156e-04  0.1257149337
```

```
print(result[[6]]) # Ftest
```

```
##           [,1] [,2] [,3]
## [1,] 751636.9    6    0
## [2,] 358615.3    6    0
## [3,] 653153.1    6    0
## [4,] 637468.4    6    0
## [5,] 2994165.5    6    0
```

```
bvtablenorm2<-xtable(result[[1]],caption ="Betas Normalcy period. 2 day rolling average")
sebvtablenorm2<-xtable(result[[2]],caption ="Standard errors Normalcy period. 2 day rolling average")
R2adjtablenorm2<-xtable(result[[4]],caption ="R2 adjusted Normalcy period. 2 day rolling average")
vtablenorm2<-xtable(result[[5]],caption ="Covariance of betas Normalcy period. 2 day rolling average")
Ftesttablenorm2<-xtable(result[[6]],caption ="Ftest Normalcy period. 2 day rolling average")
tablenorm2 <- cbind(bvtablenorm2, sebvtablenorm2,caption ="Betas, standard errors Normalcy period. 2 day rolling average")
```

## 2.2 Dispersion

Figure median EFR, 25th and 75th the percentiles ''{r} ggplot(metricE, aes(x = sdatett)) + geom\_line(aes(y = metricE[,1], color = "EFR"), linetype = "solid", linewidth = 1.5, alpha = 1.25) + geom\_line(aes(y = metricE[,2], color = "TargetDe"), linetype = "dotted", linewidth = 1) + geom\_line(aes(y = metricE[,3], color = "TargetUe"), linetype = "dotted", linewidth = 1) + geom\_line(aes(y = metricE[,4], color = "25 pct"), linetype = "dashed", linewidth = 1, alpha = 0.8) + geom\_line(aes(y = metricE[,5], color = "75 pct"), linetype = "dashed", linewidth = 1, alpha = 0.8) + labs(x = "Date", y = "basis points (bp)", color = "Lines") + #ylim= c(0,450)+ scale\_color\_manual(values = c("EFR" = "black", "Lower target" =

```

“green”, “Upper target” = “blue”, “25 pct” = “grey”, “75 pct” = “grey” )) + theme_minimal()”’
Figure median EFRF, Lower and upper target rayes ’’{r} ggplot(metricE, aes(x = sdatett)) +
geom_line(aes(y = metricE[,1], color = “EFRF”), linetype = “solid”, linewidth = 1.5, alpha = 1.25) +
geom_line(aes(y = metricE[,2], color = “TargetDe”), linetype = “dotted”, linewidth = 1) + geom_line(aes(y
= metricE[,3], color = “TargetUe”), linetype = “dotted”, linewidth = 1) + #labs(x = “Date”, y = “ba-
sis points (bp)”, color = “Lines”) + #ylim= c(0,450)+ #scale_color_manual(values = c(“EFRF” =
“black”, “Lower target” = “green”, “Upper target” = “blue” )) + theme_minimal()”’

```

A third method of detecting mean reversion involves computing a likelihood ratio test of the null hypothesis of serial independence against a particular alternative

###Dispersion measures Dispersion of rates imply rates follow different distributions #Gara Afonso, Kyungmin Kim, Antoine Martin, Ed Nosal, Simon Potter, and Sam Schulhofer-Wohl propose dispersion #index  $D_t$  of the daily EFRF from upper and lower target rates. The effectiveness of monetary policy to transmit the desired stance of monetary policy to financial markets and the real economy economy depends on efficient transmission of rate changes to other short rates in wholesale and consumer funding market.

Duffie, Krishnamurthi identify dispersion across money market interest rates as a primary indicator of the level of efficiency in how other key short-term interest rates reflect Fed policy changes. This paper examines the dispersion and volatility of short term rates. Duffie and Alonso study of dispersion of overnight wholesale money market rates from the policy rate that suggests problems for transmission of FONC policy to the broader economy.

The daily value of  $D_t$ , the deviations between the value weighted daily fed funds rate and weighted fed funds rate, the actual policy target (the EFRF, the effective fed funds rate published by the Federal Reserve Bank of New York) FOMC (Figure), During 2016-2022 managing the policy rate within its target range may have become more challenging during stress in repo markets in 2019 (??). ADD OBSERVATIONS

Duffie and Alonso provide evidence that there exists significant dispersion of the awcuwews nibwy market rates from the policy rate that suggest problems for transmission of FONC to the broader economy.

Gara Afonso, Kyungmin Kim, Antoine Martin, Ed Nosal, Simon Potter, and Sam Schulhofer-Wohl propose dispersion index  $D_t$  of the daily EFRF from upper and lower target rates. The daily value of  $D_t$ , the deviations between the value weighted daily fed funds rate and weighted fed funds rate, the actual policy target (the EFRF, the effective fed funds rate published by the Federal Reserve Bank of New York) FOMC (Figure), During 2016-2022 managing the policy rate within its target range may have become more challenging during stress in repo markets in 2019 (??). ADD OBSERVATIONS

The Federal Reserve balance-sheet normalization which reduced aggregate reserves between 2017 and September 2019, increased repo rate distortions, the severity of rate spikes, and intraday payment timing stresses, culminating with a significant disruption in Treasury repo markets in mid-September 2019.

After the introduction of IOER in 2008, the target federal funds rate is set at the middle of the Fed’s target range for FFER. Even during the challenging episodes in September 16-18, 2019 and March 16-19, 2020, the Fed maintained the EFRF at the upper target: 9/16/2019 2.25 46 2.25 2 9/17/2019 2.3 61 2.25 2 9/18/2019 2.25 58 2.25 2

the Fed created a large quantity of additional reserves in response to the Covid shock of March 2020. 3/16/2020 0.25 80 0.25 0 3/17/2020 0.25 85 0.25 0 3/18/2020 0.25 82 0.25 0 3/19/2020 0.2 103 0.25 0

INSERT ggplot of median EFRF and upper and lower targets, 25 and 75 pct quintiles

Coefficient of variation, dispersion, if distribution has changed. Standard deviation divided by the mean, Mean reversion, return to mean vs disperion, change in distribution

### 3

Duffie Krishnamurthy ( ) neasure the dispersion of overnight rates as the absolute deviation of the cross rates of overnight reference and money market rates. This indicator indiates the level of passthrough inefficiency,

the passthrough effectiveness of the Federal Reserve’s monetary policy, the transmission of policy to the economy through other short term rates. [?] Their index of rate dispersion  $DK_t$  for day  $t$  in U.S. short-term money markets is the weighted mean absolute deviation of the cross-sectional distribution of overnight-equivalent rates on that day.  $DK_t$  is constructed from overnight equivalent rates  $\hat{r}_{i,t}$ . Rates are adjusted for term and credit spreads. They argue that the current setting of U.S.-dollar money markets limits the transmission of Fed policy to the economy.

#after adjusting for premia associated with credit risk and term structure.frictions associated with imperfect #competition, regulation, infrastructure, and other forms of institutional segmentation within money markets.

Their results show dispersion ranged between 4 and 7 basis points between the end of 2012 and December 17, 2015. Dispersion increased by over 10 basis points, immediately after the first passthrough event in the current Fed monetary policy setting, when the interest rate paid by the Fed on excess reserves (IOER) was increased from 25 to 50 basis basis points on December 17, 2015.

In our sample from 2016 through 2022, the Duffie Krishnamurthy diversity index registers low dispersion, under 4 basis points, among the five overnight rates EFFR, OBFR, TGCR, BGCR, and SOHR during 2016 and the first quarter of 2017 before jumping to around 5 during the last 2 weeks of March 2017 (Figure ??). Their measure of dispersion rises to over 50 basis points during December 2018 to mid April 2019. The index triples to 151.14 basis on April 19, 2019 and remains at this high level, reaching a high 254.83 points during the spike in repo rates September 19, 2019. The index tapers off after of the dash for cash on March 17, 2020 after spiking 27.5 basis points. Throughout 2020 and 2021, the index was under 1 point. The level of dispersion rose steadily during March 2022, reaching over 200 basis points during the last part of December 2022 as the FOMC raised the target range for the Federal Funds rate to fight inflation. The index rose from 14.57 April 15, 2022 to 209.25 on December 29, 2022.

## 4

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Mean reversion tests: J.M. Poterba and L.H. Summers, Mean reversion in stock prices We find consistent evidence that stock returns are positively serially correlated over short horizons, and negatively autocorrelated over long horizons. The point estimates suggest that the transitory components in stock prices have a standard deviation of between 15 and 25 percent and account for more than half of the variance in monthly returns.

The last part of the paper discusses two possible explanations for mean reversion: time varying required returns, and slowly—decaying “price fads” that cause stock prices to deviate from fundamental values for periods of several years

If divergences between market and fundamental values exist, but beyond some limit are eliminated by speculative forces, then stock prices will exhibit mean reversion. Returns must be negatively serially correlated at some frequency if “erroneous” market moves are eventually corrected. Section 3 uses our variance ratio estimates to gauge the substantive significance of transitory components in stock prices. For the United States we find that the standard deviation of the transitory price component varies between 15 and 25 percent of value, depending on what assumption we make about its persistence. The point estimates imply that transitory components account for more than half of the variance in monthly returns pp30-31 Sommers Poterba study the mean-reverting behavior of individual corporate securities in the U.S. The results consistently suggest the presence of transitory components in stock prices, with returns showing positive autocorrelation over short periods but negative autocorrelation over longer periods. Section 4 uses our variance-ratio

If market and fundamental values diverge, but beyond some range the differences are eliminated by speculative forces, then stock prices will revert to their mean. Returns must be negatively serially correlated at some frequency if ‘erroneous’ market moves are eventually corrected. The variance-ratio test exploits the fact that if the logarithm of the stock price, including cumulated dividends, follows a random walk, the return variance should be proportional to the return horizon. We study the variability of returns at different

horizons, in relation to the variation over a one-year period. For monthly returns, the variance-ratio statistic is therefore where

$R_1$  denoting the total return in month  $t$ .

This statistic converges to unity if returns are uncorrelated through time. If some of the price variation is due to transitory factors, however, autocorrelations at some lags will be negative and the variance ratio will fall below one.

The statistics reported below are corrected for small-sample bias by dividing by  $E[VR(k)]$ . The variance ratio is closely related to earlier tests based on estimated autocorrelations. Using result (Cochrane 1988) that the ratio of the  $k$ -month return variance to  $k$  times the one-month return variance is approximately equal to a linear combination of sample autocorrelations, (1) can be written  $VR(k) = 1 + 2 \sum_{j=1}^{k-1} \frac{k-j}{k} \rho_j$ . The variance ratio places increasing positive weight on autocorrelations up to and including lag 11, with declining positive weight thereafter. Our variance ratios for  $k$ -period annual returns place declining weight on all autocorrelations up to order  $k$ .

## 5

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LATER Another hypothesis? The puzzle is the relatively smaller volatility in rates compared to the high volatility in volumes of these securities traded daily. The dispersion of the standard deviation of transactions in the sample (bottom figure), EFFR, OBFR, and SOFR, vary around \$400 billion daily.

### 5.0.1 Monetary policy during the sample period 2016-2022

ALTERNATIVE TO PARAGRAPH BELOW Fed Ample Reserves policy The QE1, QE2, and QE3 asset purchases challenged the bank's ability to control short-term interest rates. Asset purchases under QE resulted in central banks changing their overall frameworks for controlling short-term interest rates. FOMC rate changes, monetary regimes, and events occurred during the six year period of our sample 2016-2022 (Table 9).

Asset purchases under QE resulted in central banks changing their overall frameworks for controlling short-term interest rates: Pre-crisis, these frameworks were typically based on adjusting the scarcity value of a limited supply of central bank deposits (reserves), but the substantial increase in liquidity resulting from asset purchases in response to the crisis made other techniques necessary

Describe MP 2016-2019 monetary policy adjusted the scarcity value of a limited supply of central bank deposits (reserves) 2018 adopted target rates In 2019, the FOMC abandoned active management of scarce reserves and other short term interest rates and adopted a policy of ample reserves, A "floor" system To manages the federal funds rate within its target range, the upper and lower targets set by the Federal Open Market Committee (FOMC), 1).

The Federal Reserve manages the Federal Funds rate (FFR) within its target range. The FFR is interest rate at which depository institutions or "banks" lend funds to each other on an overnight basis. To implement monetary policy in an ample reserves regime, Administered rates are standing interest rates the Fed sets to guide the policy rate, the Federal Funds rates. On October 1, 2008, Congress gave the Fed the power to pay interest on reserves (IOR) to help control the fed funds rate. The IOR rate is the interest rate that banks earn from the Fed on the funds they deposit in their reserve accounts. In 2013, the Federal Reserve introduced the ONRRP facility to set a floor under the EFFR. The overnight reverse repo rate (ONRRP) facility offering rate is the Fed's supplementary tool for interest rate control.

The ability to set the IOR and the ONRRP are key for the Fed's implementation of monetary policy. The interest on reserves rate (IOR or IORB) is the Fed's principal tool for interest rate control. the Fed adjusts administrative rates to manages the FFR between the FOMC target upper and lower bounds. The IOR. In the ample reserves regime, the Fed is able to manage the FFR is a "floor" system where the FOMC set



the administered rates, interest on reserve balances (IOR) on deposits held at the bank, and the overnight reverse repurchase facility (ON RRP).

The administered rates, the IOR and the ON RRP, (and now the repo facility) along with an ample supply of reserves created a corridor system for managing the Fed Funds rate. The IOR is the ceiling, the ON RRP the floor. No bank would lend at rates on overnight cash lower than the IOR, the rate they can receive from the Fed. Thus Banks have little or no incentive to lend their reserves to other banks at rates lower than the IOR rate. In this sense, the IOR rate is in effect a reservation rate for banks' intermediation activities, No bank should be borrow at a higher rate than the ONRRP. Banks and non-bank financial institutions should be unwilling to invest funds in private markets below the ONRRP. No bank should lend at a lower rate than the ONRRP. Competition among borrowers should drive rates to the discount window (DW) rate.

The level of reserves in the banking system can change either because 1) the Federal Reserve buys or sells assets from banks, which changes the size of the Federal Reserve balance sheet 2) because funds are transferred between reserves and non-reserve accounts at the Federal

- 3) The Federal Reserve responds to volatility in the federal funds market by adjusting the reserve supply to keep the federal funds rate within its target range through repo and reverse repo operations each day. The Federal Reserve changes the level of aggregate reserves by trading securities with banks. Federal Reserve purchases add assets to its balance sheet and issues reserves by crediting the Federal

Temporary open market operations (TOMO), short-term repurchase and reverse repurchase agreements, support the Fed's policy objectives for the desired range of the effective Federal Funds rate. Short-term repurchase and reverse repurchase agreements are designed to temporarily add or drain reserves available to the banking system and influence day-to-day trading in the Federal Funds market.

Reserve accounts of the selling banks. (reverse repo, Fed is lender?) In a repo transaction, the Federal Reserve sells securities to banks. Aggregate reserves decline when the Fed debits the Federal Reserve accounts of the selling banks. (Fed repo as borrower)? The trading desk at the NY Fed conducts all repo and reverse repo operations, including small value exercises. <https://www.newyorkfed.org/markets/desk-operations/>

In a repo transaction, the Desk purchases securities from a counterparty subject to an agreement to resell the securities at a later date, temporarily increasing the supply of reserve balances in the banking system and lowering the EFFR.

Counterparties that lend to the Fed include money markets and dealers.

In the recently established repo facility in July 2021, the Standing Repo Facility (SRF), the Desk purchases securities from a counterparty subject to an agreement to repurchase the securities at a later date, temporarily increases the supply of reserve balances in the banking system and lowers the FFR. The repo rate. . Each repo transaction is economically similar to a loan collateralized by securities, interest" paid on that loan, is the difference between the original price and the second, higher price. In a reverse repo transaction, the Desk sells securities to a counterparty subject to an agreement to repurchase the securities at a later date. temporarily decreases the supply of reserve balances in the banking system and raising the FFR.

#————— check above paragraph with this one Control over the federal funds rate and other short-term interest rates The New York Fed conducts repo and reverse repo operations each day as a means to help keep the federal funds rate in the target range set by the Federal Open Market Committee (FOMC). Operation results include all repo and reverse repo operations conducted, including small value exercises. <https://www.newyorkfed.org/markets/desk-operations/reverse-repo> In a repo transaction, the Desk purchases securities from a counterparty subject to an agreement to resell the securities at a later date. Each repo transaction is economically similar to a loan collateralized by securities, and temporarily increases the supply of reserve balances in the banking system. Conversely, in a reverse repo transaction, the Desk sells securities to a counterparty subject to an agreement to repurchase the securities at a later date. Reverse repo transactions temporarily reduce the supply of reserve balances in the banking system. The repo rate. interest" paid on that loan., is the difference between the original price and the second, higher price, Participants include <https://www.bankrate.com/banking/federal-reserve/why-the-fed-pumps-billions-into-repo-market/>

The New York Fed, conducts the U.S. central bank's open market operations. The New York Fed's Open Market Trading Desk (the Desk) is authorized by the Federal Open Market Committee (FOMC) to conduct repurchase agreement (repo) and reverse repo transactions. These open market operations support effective monetary policy implementation and smooth market functioning by helping maintain the federal funds (fed funds) rate within the FOMC's target range. [https://www.newyorkfed.org/markets/ domestic-market-operations/monetary-policy-implementation/repo-reverse-repo-agreements](https://www.newyorkfed.org/markets/domestic-market-operations/monetary-policy-implementation/repo-reverse-repo-agreements) Repo markets are essential for the U.S. financing of its debt. Around \$2 trillion to \$4 trillion of debt are financed here each day. The cash that institutions receive goes toward funding daily operations. To support its policy objectives, the FOMC has established repo and reverse repo facilities. The Overnight Reverse Repo Facility (ON RRP) helps provide a floor under overnight interest rates by acting as an alternative investment for a broad base of money market investors when rates fall below the interest on reserve balances (IORB) rate. The Standing Repo Facility (SRF) serves as a backstop to dampen upward interest rate pressures that can occasionally emerge in overnight U.S. dollar funding markets and spillover into the fed funds market. The Desk generally conducts both the ON RRP and SRF operations each business day.

#————— check above paragraph with this one

These operations are quick and are put in place within a matter of days. For example, in September 2019, the federal funds rate spiked up on September 16 and 17. On September 18, 21 LOOK FOR P22 Dup? #  
————— add shocks to epochs to test subsamples

The FOMC planned reduction of holdings of these securities by holding them to maturity, rather than by selling them back in financial markets. This 'balance sheet normalization' began October 2017. One of many shocks, But this reduction of reserves engendered a disruption in repurchase (repo) markets in September 2019. To resolve this crisis, In October 2019, the Fed resumed purchasing massive amounts of debt securities.

Reserve, which changes the composition of the Federal Reserve's liabilities keeping the size of the balance sheet constant.

#————— DUPLICATE check above paragraph with this one Participants include financial firms with large pools of cash to earn interest. Repo markets also allow financial institutions to borrow cheaply to fund short-term needs. Other non bank institutions who cannot hold reserves at the Fed include, hedge funds, money market funds, and insurance companies. Fed: Temporary open market operations (TOMO), short-term repurchase and reverse repurchase agreements, support the Fed's policy objectives for the desired range of the effective Federal Funds rate. . Short-term repurchase and reverse repurchase agreements are designed to temporarily add or drain reserves available to the banking system and influence day-to-day trading in the Federal Funds market. In a reverse repo transaction, the Desk sells securities to a counterparty subject to an agreement to repurchase the securities at a later date. Each reverse repo transaction is economically similar to a loan collateralized by securities, temporarily decreases the supply of reserve balances in the banking system and raises the EFFR. Counterparties that lend to the Fed include money markets and dealers. In the recently established repo facility n July 2021, the Standing Repo Facility (SRF), the Desk purchase securities from a counterparty subject to an agreement to repurchase the securities at a later date. Each repo transaction is economically similar to a loan collateralized by securities, temporarily increases the supply of reserve balances in the banking system and lowers the EFFR or rates. 22

DUPLICATE The Federal Reserve also responds to volatility in the federal funds market by adjusting the reserve supply to keep the federal funds rate within its target range by buying or selling assets from banks. These temporary adjustments to reserves to offset volatility in the Fed Funds rate When the Federal Reserve changes the level of aggregate reserves by trading securities with banks, these Federal Reserve purchases or sales of assets from banks change the size of the Federal Reserve balance sheet. In a repo transaction, the Federal Reserve purchases securities from banks. It adds assets to its balance sheet and issues reserves by crediting the Federal Reserve accounts of the selling banks. Fed is lender? When the Federal Reserve sells securities to banks in reverse repo transaction, aggregate reserves decline. (Fed repo as borrower)?

FOMC rates changes			
<b>2015 to 2018: Returning to Normalcy, mid cycle adjustment 3/4/2016 - 7/31/2019</b>			
Date	Change	(bps)	& Federal
20-Dec-18	25		2.2
Sept. 27, 2018	25		2.0
Jun. 14, 2018	25		1.7
22-Mar-18	25		1.5
Dec. 14, 2017	2		5 1.5
15-Jun-17	25		1.0
16-Mar-17	25		0.7
Dec. 15, 2016	25		0.5
Dec. 17, 2015	25		0.2
<b>2019 Mid-Cycle Adjustment 8/1/2019-10/31/2019</b>			
Date	Change	(bps)	& Federal
31-Oct-19	-25		1.5
Sept. 19, 2019	-25		1.7
Aug. 1, 2019	-25		2.0
<b>2020 Coping with Covid 11/01/2019 - 3/16/2020</b>			
Date	Change	(bps)	& Federal
16-Mar-20	-100		0
3-Mar-20	-50		1.0
<b>the zero lower bound (ZLB) 3/17/2020- 3/16/2022</b>			
Date	Change	(bps)	& Federal
<b>2022 Taming Inflation 03/17/2022 - 12/29/2022</b>			
Date	Change	(bps)	& Federal
14-Dec-22	50		4.2
2-Nov-22	75		3.7
21-Sep-22	75		3.0
27-Jul-22	75		2.2
16-Jun-22	75		1.5
5-May-22	50		0.7
17-Mar-22	25		0.2

Table 8: FOMC rates changes 2018 to 2022

## 6 ————— create new section on MP, shocks, etc

We examine how these shocks, changes in monetary policy (Table 9).affect rate volatility in different monetary policy regimes.

Monetary policy shocks QE date for analysis FIND DATES, link to table and figure above TABLE of monetary policy decisions and events CHECK:UPDATE TABLE DO! *Which epoch, Sep 2019, Mar 2020, series of QE* 2019 March 15, 2020 March 23, 2020 June 2020 December 2020 slow purchase November 2021 December 2021

Other events or shocks that affected ratesL

EVENTS 1) 96 9/16/2019 Repo spike SOHR 2.42 +13 over 9/15, EFR 2.23 +11 97 9/17/2019 Repo spike SOFR 5+ EFR 2.3

<https://www.federalreserve.gov/econres/notes/feds-notes/what-happened-in-money-markets-in-september-2019-20200227.html> On Monday, September 16, SOFR printed at 2.43 percent, 13 basis points higher than the previous business day. With pressures in the repo market spilling over into the fed funds market, the EFR printed at 2.25 percent, 11 basis points above the Friday print and at the top of the FOMCs target

FOMC rates changes		
<b>2015 to 2018: Returning to Normalcy</b>		
Date	Change	(bps) & Federal Funds Rate (pct)
20-Dec-18	25	2.25 to 2.50
Sept. 27, 2018	25	2.0 to 2.25
Jun. 14, 2018	25	1.75 to 2.0
22-Mar-18	25	1.50 to 1.75
Dec. 14, 2017	2	5 1.25 to 1.50
15-Jun-17	25	1.00 to 1.25
16-Mar-17	25	0.75 to 1.00
Dec. 15, 2016	25	0.5 to 0.75
Dec. 17, 2015	25	0.25 to 0.50
<b>2019 Mid-Cycle Adjustment</b>		
Date	Change	(bps) & Federal Funds Rate (pct)
31-Oct-19	-25	1.50 to 1.75
Sept. 19, 2019	-25	1.75 to 2.0
Aug. 1, 2019	-25	2.0 to 2.25
<b>2020 Coping with Covid</b>		
Date	Change	(bps) & Federal Funds Rate (pct)
16-Mar-20	-100	0 to 0.25
3-Mar-20	-50	1.0 to 1.25
<b>2022 Taming Inflation</b>		
Date	Change	(bps) & Federal Funds Rate (pct)
14-Dec-22	50	4.25 to 4.50
2-Nov-22	75	3.75 to 4.00
21-Sep-22	75	3.00 to 3.25
27-Jul-22	75	2.25 to 2.5
16-Jun-22	75	1.5 to 1.75
5-May-22	50	0.75 to 1.00
17-Mar-22	25	0.25 to 0.50

Table 9: FOMC rates changes 2018 to 2022

range. On September 17, the EFFR moved above the top of the target range to 2.3 percent and the SOFR increased to above 5 percent.

- 2) Mar 10-18 2020 Dash for cash 121 3/8/2020 0:00 subtract 5 from coordinate 122 3/15/2020 0:00 The COVID-19 Pandemic Caused Market Disruptions across Sovereign Bond Markets At the start of the COVID-19 pandemic in late February 2020, and in response to the economic repercussions of impending lockdown measures, investors began to demand higher-quality, safe assets. In particular, they shifted their portfolios toward sovereign bonds, and the resulting buying pressure drove sovereign yields to decline broadly. As the crisis intensified in March 2020, however, investors' demand for cash surged, leading to selling pressure on sovereign bonds and therefore increases in their yields. This down-and-up pattern in yields is illustrated for ten-year U.S., German, U.K., and Japanese bonds in the chart below.

-122 March 15, 2020 On March 15, 2020, the Fed shifted the objective of QE to supporting the economy. It said that it would buy at least \$\$\$500 billion in Treasury securities and \$\$\$200 billion in government-guaranteed mortgage-backed securities over “the coming months.” - 123 3/22/2020 March 23, 2020, it made the purchases open-ended, saying it would buy securities “in the amounts needed to support smooth market functioning and effective transmission of monetary policy to broader financial conditions,” expanding the stated purpose of the bond buying to include bolstering the economy.

- June 2020 - In June 2020, the Fed set its rate of purchases to at least \$80 billion a month in Treasuries and \$40 billion in residential and commercial mortgage-backed securities until further notice.
- December 2020 slow: The Fed updated its guidance in December 2020 to indicate it would slow these purchases once the economy had made “substantial further progress” toward the Fed’s goals of maximum employment and price stability.
- November 2021 taper: In November 2021, judging that test had been met, the Fed began tapering its pace of asset purchases by \$10 billion in Treasuries and \$5 billion in MBS each month.
- December 2021 double taper: At the subsequent FOMC meeting in December 2021, the Fed doubled its speed of tapering, reducing its bond purchases by \$20 billion in Treasuries and \$10 billion in MBS each month

December 2020 slow purchase November 2021 December 2021 Table and figures display changes in the Fed funds rate and the administered rates IOR and the reward rate ON RRP Table 9 lists FOMC rates changes, monetary regimes, and events over the four year period, 2018-2022.

supply of reserves created a corridor system for managing the Fed Funds rate. The IOR is set equal to the upper range for the fed funds rate, The ONRRP rate is set equal to the lower range for the fed funds rate.

DUPLICATE or ADDITION?: Each repo transaction is economically similar to a loan collateralized by securities, and temporarily increases the supply of reserve balances in the banking system. Conversely, in a reverse repo transaction, the Desk sells securities to a counterparty subject to an agreement to repurchase the securities at a later date. Reverse repo transactions temporarily reduce the supply of reserve balances in the banking system. These open market operations support effective monetary policy implementation and smooth market functioning by helping maintain the federal funds (fed funds) rate within the FOMC’s target range. <https://www.newyorkfed.org/markets/domestic-market-operations/monetary-policy-implementation/> repo-reverse-repo-agreements <https://www.bankrate.com/banking/federal-reserve/why-the-fed-pumps-billions-into-repo-market/>

These temporary interventions happened in September 2019 and March 2020. These responses are quick and are put in place within a matter of days. In September 2019, for example, the federal funds rate spiked up on the 16th and 17th; starting on the 18th, the Federal Reserve expanded the reserve supply by providing cash in the repo market, and rates returned to their prior levels (Afonso et al. (2020a)).

Because the March 2020 covid crisis news also caused severe illiquidity in the secondary market for Treasury securities, the Fed purchased enormous quantities of Treasuries and Agencies, expanding the total supply of reserves from mid-March by about \$1 trillion in just three weeks.

DUFFIE As a by-product of this huge asset purchase program, the total reserve balances of our sample of the ten largest repo-active BHCs increased dramatically. With this and other aggressive actions by the Fed to restore market liquidity, dealer banks provided reserves much more elastically into the repo market and the spread between SOFR and IOR essentially disappeared from April ?

2020 to December 29, the end of my sample period. liquidity after the Fed’s post GFC attempt to support the economy through large-scale asset purchases (LSAPs), the Federal Reserve experimented with alternative monetary policies such as quantitative easing (QE) or forward guidance. Asset purchases under QE are essentially a swap of fixed rate securities US Treasury securities, mortgage-backed securities, and federal agency debt securities for floating securities, reserves. This increase in liquidity challenged the bank’s ability to control short-term interest rates. resulted in central banks to institute a new regime of ample reserves and a corridor system to manage its policy rate within FOMC selected target ranges, this large increase in liquidity,

Total reserves in the U. S. banking system now exceed \$3.081237 trillion (Totresns). At the beginning of 2009, reserves were \$800 billion, compared to approximately \$10 billion pre-crisis. Reserves continued to increase until late 2014. Fed’s quantitative easing programs raised reserves to a peak of \$2.8 trillion in September 2014. Peak reserves peaked \$4.275 at then end of 2021 In November 2022, From late 2017, when the Federal Open Market Committee began implementing its policy of “balance sheet normalization” aggregate reserves began to decline, reaching a low of \$1.4 trillion in early September 2019.

The level of reserves can also change when institutions that have non-reserve Federal Reserve accounts transact with private banks. When these transfers occur, reserves are either created or destroyed outside the Federal Reserve's control.

### 6.0.1 Fed preference for offsetting volatility

Fed inclination to accommodate rate volatility Hypothesis 3: Fed tolerance for offsetting volatility? Distribution of reference rates during different monetary policy regimes/event Sub samples as tests of different regimes

The dynamics of reference rates vary dramatically over different policy/events. The history of FOMC rate changes (Table) suggested these subsamples of the data to examine for Fed appetite for offsetting risk. the characteristics of the EFFR and all overnight money market rates, in both 1) the whole time series 2016-2022 and 2) and during the periods of normalcy (dates), adjustment, coping with covid (dates), the zero lower bound (ZLB), and fighting inflation (dates). I have broken the daily times series into five different periods correspond to Forbes description ( ) date) of changes in monetary policy:

1. normalcy 3/4/2016 7/31/2019 4 859
2. mid cycle adjustment 8/1/2019 - 10/31/2019 860 - 923
3. coping with covid 11/1/2019 3/16/2020 924 1032
4. zlb 3/17/2020- 3/16/2022 1032-1516
5. Taming inflation 03/17/2022 - 12/29/2022 1517-1714

```
rrbptable <- xtable(momentsrrbp)
normtable <- xtable(momentsnorm)
adjusttable <- xtable(momentsadjust)
covidtable <- xtable(momentscovid)
zlbtable <- xtable(momentszlb)
inflationtable <- xtable(momentsinflation)
```

emph{Volatility of weekly reserves and volume weighted rates} Plots by epoch, rates versus weekly reserves  
MAYBE SKIP

STATS BY EPOCH Std dev: The standard deviation of reserves during the normalization of policy is low, while the standard deviation of all rates high (Table %~??). During the covid episode, there is a four fold increase in the standard deviation in reserves. The volatility of EFFR and money market rates fall,

As the Fed increases the policy rate to respond to inflation, the volatility of reserves is half of that in the normalcy period. Volatility?? all money market rates increase, esp BGCR, and SOHR with the policy rate EFFR while their standard deviations fall by half. Figures onrate all plot for all rates:

With weekly distribution of reserves (only weekly not daily reserves are available) we can...

## 7

STATS FOR EPOCHS Volatility or std dev: ~??

Where is rates vs reserves? Figure ~ref{figure:statsvolumes} Table ~10

Fed actions: Test variance model on subsamples like the epochs To manage the [MAGNITUDE NUMBERS]

###volatility

Table 10: Standard deviations of weekly reserves and volumes of weighted rates EFFR, IBFR, TGCR, BGCR, SOFR

Epoch	Standard deviation					
	Mean					
	Reserves (1.0e03)	EFFR	OBFR	TGCR	BGCR	SOHR
Norm	241.3023	134.5481	274.6710	146.3830	279.1946	381.1422
Covid	926.4133	334.6106	252.5356	250.9619	267.9428	411.9279
Inflation	108.7412	6.6296	15.1004	17.6591	18.1397	47.7760
ALL	923.5434	286.8090	258.7605	206.8692	264.1191	421.5599

## 7.1 Clustering, Other measures of volatility

Add dispersion? Other measures of volatility (Figure ??) Intraday volatility, standard deviation of EFFR and deviations of the effective federal funds from the target rate 1) simple standard deviation 2) log percent change

$$vol_1 = \log(r_{t+1}) - \log(r_t)$$

3) standard deviation of log percent change  $vol_2 = standarddeviationof vol_1$  4) standard deviation of log percent change with trailing window of 244 days?

\$vol\_3 = movstd(vol\_2, 244)\$ %4) deviations of the effective federal funds from the target rate? Three measures of rate volatility: percent change, log percent change, rolling standard deviation

Volatility clustering, one of the most important stylized facts in financial markets, refers to the observation that large changes in price tend to be followed by large changes and small changes tend to be followed by small changes. Evidence of clustering of annual volatility across reference rates. Evidence of clusters within these periods (??). High volatility follows periods of high volatility. Low volatility follows periods of low volatility. From 2017 to 2018, volatility as measured by the annual standard deviation increased only 8.18 bp, increasing to 29.59 from 21.41 bp (??). From 2018 to 2019, volatility of the EFFR fell 3.56 basis points.

Three measures of rate volatility: percent change, log percent change, rolling standard deviation REDO FOR EPOCHS, SUBSAMPLES Table %-?? The standard deviation of reserves during the normalization of policy is low, while the standard deviation of all rates high. During the covid episode, there is a four fold increase in the standard deviation in reserves. The volatility of EFFR and money market rates fall,

As the Fed increases the policy rate to respond to inflation, the volatility of reserves is half of that in the normalcy period. Volatility?? all money market rates increase, esp BGCR, and SOHR with the policy rate EFFR while their standard deviations fall by half. Introduce different policy epochs as subsamples

warning: solver failed to converge. > egarch\_fit <- ugarchfit(spec = egarch\_spec, data = rrbpts) Warning message: In .egarchfit(spec = spec, data = data, out.sample = out.sample, : ugarchfit->warning: solver failed to converge. > residuals <- residuals(egarch\_fit) Error in xts(object@fit\$residuals, D) : 'order.by' cannot contain 'NA', 'NaN', or 'Inf' > egarch\_spec

----- \* GARCH Model Spec -----\*

## 7.2 Conditional Variance Dynamics

GARCH Model : eGARCH(1,1) Variance Targeting : FALSE

## 7.3 Conditional Mean Dynamics

Mean Model : ARFIMA(0,0,0) Include Mean : TRUE GARCH-in-Mean : FALSE

## 7.4 Conditional Distribution

Distribution : norm Includes Skew : FALSE Includes Shape : FALSE Includes Lambda : FALSE ->