

# Value of Information Report

*Author*

*today*

## Introduction

Some text here.

## Tables

`\begin{footnotesize}`

```
print(cacheEnv)
```

```
## <environment: 0x8632c20>
```

```
#library(xtable)
#options(xtable.comment = FALSE)
#options(xtable.booktabs = TRUE)
EVPI <- cbind(pEVPI)
colnames(EVPI) <- "Partial\ EVPI"
EVPI
```

```
##          Partial EVPI
## theta1      6.3337530
## theta2      5.5441183
## theta3      0.0000000
## theta4      0.0000000
## theta5      77.2268168
## theta6    1232.8520757
## theta7       7.7124340
## theta8      0.0000000
## theta9      0.0000000
## theta10     14.2919830
## theta11     0.0000000
## theta12     0.0000000
## theta13     0.4780293
## theta14    455.0707778
## theta15    520.9632985
## theta16    931.8913172
## theta17     0.0000000
## theta18     0.0000000
## theta19     0.0000000
```

```
#if(input$format == "PDF") {
#xtable(EVPI, caption = paste("Partial EVPI values at lambda =", input$lambda))
#} else {print(EVPI)}
print(EVPI)
```

```

##          Partial EVPI
## theta1      6.3337530
## theta2      5.5441183
## theta3      0.0000000
## theta4      0.0000000
## theta5      77.2268168
## theta6     1232.8520757
## theta7      7.7124340
## theta8      0.0000000
## theta9      0.0000000
## theta10     14.2919830
## theta11     0.0000000
## theta12     0.0000000
## theta13     0.4780293
## theta14     455.0707778
## theta15     520.9632985
## theta16     931.8913172
## theta17     0.0000000
## theta18     0.0000000
## theta19     0.0000000

```

\end{footnotesize}

## Figures

```
## <environment: 0x8632c20>
```

```

##          costs1   costs2
## 1      1144.9554 1675.497
## 2      1164.3006 1732.737
## 3      1066.6565 1611.727
## 4      1222.8029 2106.905
## 5      1141.9543 1682.730
## 6      1112.0814 1586.620
## 7      1234.9967 1731.021
## 8      1318.6354 1729.671
## 9      1191.0046 1830.979
## 10     1292.2706 1679.843
## 11     1529.7370 1645.530
## 12     1397.3261 1664.098
## 13     1089.1057 1658.608
## 14       988.4160 1471.997
## 15     1387.5101 1820.132
## 16     1155.1030 1722.649
## 17     1246.2557 1736.325
## 18     1293.3890 1685.546
## 19     1182.0352 1630.820
## 20     1454.7576 1894.044
## 21     1250.0721 1702.669
## 22     1138.3152 1910.948
## 23     1117.7369 1669.827
## 24     1001.6835 1500.359

```

## 25	1089.4109	1741.678
## 26	1118.8445	1658.876
## 27	1214.3058	1668.043
## 28	1061.4559	1545.373
## 29	1218.9306	1554.367
## 30	1207.8865	1649.229
## 31	1372.5651	1874.604
## 32	1265.1556	1728.497
## 33	1282.6147	1785.939
## 34	1048.5176	1751.039
## 35	1116.7245	1561.841
## 36	1187.3460	1712.348
## 37	1217.3568	1630.267
## 38	1160.5324	1692.959
## 39	1542.1447	2089.189
## 40	1308.5705	1751.250
## 41	1271.0411	1675.513
## 42	1187.3303	1589.626
## 43	1233.9301	1781.707
## 44	1317.2545	1814.240
## 45	1163.4932	1613.329
## 46	1154.5179	1608.349
## 47	1207.2659	1668.776
## 48	1232.1981	1696.682
## 49	1265.1392	1715.216
## 50	1194.2102	1639.217
## 51	1301.0560	1718.574
## 52	1177.4922	1673.147
## 53	1288.0900	1666.396
## 54	1075.7872	1580.996
## 55	1321.7263	1784.928
## 56	1325.9916	1745.821
## 57	1118.6180	1554.420
## 58	1107.6183	1583.290
## 59	1360.6920	1803.645
## 60	1214.2952	1619.200
## 61	1326.0716	1959.642
## 62	1236.7579	1735.127
## 63	1305.4258	1654.506
## 64	1111.3743	1766.366
## 65	1115.7940	1693.898
## 66	1168.2906	1787.146
## 67	1012.3806	1520.073
## 68	1391.5787	1711.828
## 69	1227.2305	1670.636
## 70	1460.3447	1901.910
## 71	1399.9545	1576.359
## 72	1165.8518	1596.666
## 73	1294.3992	1653.147
## 74	1112.2073	1617.448
## 75	1144.2860	1577.323
## 76	1218.3472	1783.772
## 77	1262.8269	1642.686
## 78	1167.9916	1658.463

## 79	1223.3334	1679.680
## 80	1225.4042	1610.656
## 81	1245.6786	1615.262
## 82	1192.1662	1684.170
## 83	1374.5075	1806.253
## 84	1025.8380	1522.608
## 85	1122.9751	1767.354
## 86	1407.5425	1613.589
## 87	1545.4997	1763.118
## 88	1154.1082	1705.382
## 89	1201.4353	1776.644
## 90	1112.7314	1683.287
## 91	1221.6792	1617.833
## 92	1535.9429	1817.273
## 93	1421.9918	1685.878
## 94	1154.6893	1789.655
## 95	1533.6434	1884.476
## 96	1186.9438	1689.658
## 97	1097.2175	1569.715
## 98	1161.7856	1641.129
## 99	1130.2418	1588.996
## 100	1158.5699	1632.283
## 101	1107.7015	1584.009
## 102	1392.9715	1687.942
## 103	1124.8910	1594.650
## 104	1253.4977	1663.592
## 105	1100.3042	1625.972
## 106	1427.2233	1774.836
## 107	1191.0451	1737.361
## 108	1296.6184	1711.036
## 109	1240.2474	1792.711
## 110	1401.8986	1882.351
## 111	1135.7877	1623.482
## 112	1196.4276	1674.405
## 113	1359.3680	2022.398
## 114	1244.4030	1592.101
## 115	1220.4347	1759.913
## 116	1126.2794	1645.264
## 117	1233.0672	1778.485
## 118	1208.7656	1614.556
## 119	1032.8564	1662.630
## 120	1182.4927	1624.602
## 121	1156.1843	1674.106
## 122	1330.2079	1724.128
## 123	1314.4756	1677.303
## 124	1177.9532	1727.049
## 125	1280.6490	1655.801
## 126	1374.9323	1684.257
## 127	1282.4741	1703.773
## 128	1174.9851	1640.931
## 129	1125.8755	1641.757
## 130	1118.9648	1655.358
## 131	1290.8140	1640.451
## 132	1184.2555	1630.885

```

## 133 1265.6969 1728.743
## 134 1052.2563 1550.546
## 135 1160.3187 1644.472
## 136 1044.0763 1554.464
## 137 1126.3343 1637.718
## 138 1110.4570 1713.096
## 139 1064.0832 1646.636
## 140 1316.6913 1655.048
## 141 1007.6402 1508.383
## 142 1044.3687 1774.429
## 143 1063.5587 1541.039
## 144 1119.0117 1681.946
## 145 1055.9180 1535.411
## 146 1073.1032 1719.016
## 147 1441.9084 1800.176
## 148 1157.7273 1764.940
## 149 1070.3826 1550.757
## 150 1030.2891 1522.125
## 151 1072.2849 1726.124
## 152 1141.4026 1613.337
## 153 1157.1276 1705.644
## 154 1142.8678 1552.403
## 155 1093.0868 1541.474
## 156 1102.6612 1578.006
## 157 1127.0987 1728.076
## 158 1144.4460 1663.960
## 159 1065.3728 1570.195
## 160 1506.8244 2033.358
## 161 1247.7684 1635.310
## 162 1113.0218 1762.465
## 163 1123.9412 1975.333
## 164 1489.5014 1685.626
## 165 1134.9706 1667.059
## 166 1843.4356 1978.332
## 167 1206.4943 1691.289
## 168 1102.8047 1548.007
## 169 1103.0998 1622.733
## 170 1160.3546 1608.432
## 171 1628.8120 1861.469
## 172 1140.5549 1699.175
## 173 1190.0003 1649.435
## 174 1160.0486 1687.686
## 175 1235.1126 1692.959
## 176 1212.8896 1733.336
## 177 1445.1201 1713.198
## 178 1227.0693 2054.172
## 179 1414.8338 1784.840
## 180 1287.8128 1739.438
## 181 1056.6387 1563.721
## 182 1338.7692 1964.733
## 183 1374.5461 1678.741
## 184 1071.2592 1534.181
## 185 1462.8673 1768.569
## 186 1193.6296 1707.399

```

##	187	1086.1659	1845.055
##	188	1159.2356	1586.705
##	189	1199.9541	1670.920
##	190	1047.9338	1613.545
##	191	1146.7514	1627.905
##	192	1207.1776	1713.107
##	193	1112.1404	1613.698
##	194	1172.5490	1776.156
##	195	1099.9160	1570.393
##	196	1082.5022	1522.495
##	197	1333.5281	1959.912
##	198	1151.7886	1585.756
##	199	1348.5889	1704.196
##	200	1313.7438	1629.672
##	201	1235.1093	1647.904
##	202	1218.5789	1948.108
##	203	1402.9756	1946.379
##	204	1144.2927	1596.502
##	205	948.5830	1486.862
##	206	1566.8737	2200.263
##	207	1213.7794	1621.050
##	208	1261.2059	1753.383
##	209	1155.8692	1610.768
##	210	1296.3886	1709.281
##	211	1144.5855	1678.258
##	212	1219.7624	1772.870
##	213	989.9775	1721.028
##	214	1069.4587	1564.925
##	215	1270.6803	1924.060
##	216	1330.4995	1707.345
##	217	1231.3835	1661.147
##	218	1068.1794	1554.813
##	219	1331.4743	1751.444
##	220	1419.6584	1684.052
##	221	1051.7550	1543.923
##	222	1131.7122	1645.957
##	223	988.3311	1667.391
##	224	1146.9212	1551.061
##	225	1075.3498	1602.874
##	226	1307.6362	1950.221
##	227	1095.0115	1604.926
##	228	1027.7621	1530.115
##	229	1210.0824	1577.284
##	230	1190.7509	1658.288
##	231	1046.0340	1674.584
##	232	897.9450	1422.578
##	233	1062.6458	1621.300
##	234	1300.9434	1851.848
##	235	1225.8416	1718.393
##	236	1311.3818	1751.061
##	237	1253.5921	1703.012
##	238	1061.5020	1600.600
##	239	1210.6081	1665.029
##	240	1287.1004	1692.322

##	241	1228.3192	1773.498
##	242	1383.3783	1717.648
##	243	1264.5726	1634.381
##	244	1046.0572	1594.876
##	245	1183.0412	1938.647
##	246	1000.1690	1499.727
##	247	1131.0122	1628.853
##	248	1072.8913	1694.662
##	249	1224.9227	1587.252
##	250	1260.0822	1931.235
##	251	1199.2299	1734.704
##	252	1353.7805	1691.134
##	253	1127.7293	1646.819
##	254	1162.1293	1632.458
##	255	1174.3267	1755.586
##	256	1179.2407	1904.517
##	257	950.5103	1444.786
##	258	1162.9094	1687.749
##	259	1215.2938	1668.634
##	260	1149.3436	1635.548
##	261	1267.2799	1711.419
##	262	1336.9379	1623.986
##	263	1184.1909	1696.017
##	264	1496.6981	1880.620
##	265	1601.9436	1798.904
##	266	1157.2423	1754.476
##	267	1067.9318	1684.589
##	268	1065.1065	1569.949
##	269	1196.3587	1691.451
##	270	1165.0771	1537.365
##	271	1302.3869	1609.730
##	272	1216.6980	1809.973
##	273	1182.2870	1572.888
##	274	1881.8385	2019.836
##	275	1058.7416	1700.812
##	276	1525.1839	1844.211
##	277	978.3790	1477.879
##	278	1272.4653	1682.077
##	279	1066.6216	1536.762
##	280	1173.7577	1872.871
##	281	1198.1259	1817.415
##	282	1249.0167	1690.732
##	283	1298.5626	1720.433
##	284	1072.2207	1609.150
##	285	1135.3051	1582.945
##	286	1158.9672	1592.174
##	287	1261.4535	1633.238
##	288	1041.9160	1834.535
##	289	1318.7446	1613.789
##	290	1336.6943	1716.134
##	291	1057.8061	1626.019
##	292	1400.0618	1715.608
##	293	1165.2508	1652.423
##	294	1042.9320	1544.663

## 295 1491.0012 1720.888  
## 296 1332.7018 1645.627  
## 297 1353.4868 1708.790  
## 298 1584.5479 1724.916  
## 299 1310.5644 1678.246  
## 300 1183.7528 1644.825  
## 301 1209.2299 1696.771  
## 302 1084.5278 1594.840  
## 303 1562.8672 1818.571  
## 304 1311.3174 1674.323  
## 305 1187.2782 1817.286  
## 306 1311.7220 1654.950  
## 307 1160.7742 1791.420  
## 308 1153.4690 1727.633  
## 309 1095.6894 1629.328  
## 310 1322.6154 1734.603  
## 311 1347.3345 1697.634  
## 312 1237.5422 1611.976  
## 313 1154.6115 1680.043  
## 314 1080.8818 1595.168  
## 315 1277.0716 1720.587  
## 316 1382.9990 1782.277  
## 317 1175.5300 1624.706  
## 318 1353.8881 1699.631  
## 319 1052.5275 1535.081  
## 320 1061.0601 1710.266  
## 321 1120.4853 1810.522  
## 322 1275.8291 1650.525  
## 323 1280.4158 1738.279  
## 324 1009.2046 1510.059  
## 325 1090.9182 1711.000  
## 326 1438.2520 1760.498  
## 327 1135.9809 1676.694  
## 328 1153.1491 1786.815  
## 329 1101.5808 1685.967  
## 330 1228.7137 2028.494  
## 331 1087.7866 1625.073  
## 332 1063.7881 1530.905  
## 333 1138.8888 1676.491  
## 334 1488.7594 1760.498  
## 335 1132.6949 1645.014  
## 336 1441.0529 1743.256  
## 337 1569.0436 1692.782  
## 338 1210.0858 1762.723  
## 339 1270.2399 1597.700  
## 340 1177.0791 1567.630  
## 341 1306.3607 1844.646  
## 342 1058.4260 1565.646  
## 343 1226.4226 1640.396  
## 344 1255.0705 1676.385  
## 345 980.2941 1469.202  
## 346 1054.1924 1552.992  
## 347 1370.3808 1818.170  
## 348 1208.4275 1644.456



## 349 1302.5306 1737.780  
## 350 1148.0486 1957.582  
## 351 1374.2461 1994.632  
## 352 1456.6059 1753.007  
## 353 1238.7534 1681.717  
## 354 1430.8118 1610.506  
## 355 1278.5817 1800.183  
## 356 1165.8376 1722.174  
## 357 1065.1341 1603.068  
## 358 1174.3806 1612.721  
## 359 1006.1762 1508.669  
## 360 1263.8117 1618.747  
## 361 963.8947 1427.343  
## 362 1421.0188 2127.567  
## 363 1191.7109 1623.139  
## 364 1101.9304 1583.233  
## 365 1204.5909 1618.886  
## 366 1387.2748 1681.808  
## 367 1326.3966 1656.965  
## 368 1148.7167 1767.046  
## 369 1061.5488 1619.725  
## 370 1077.1077 1580.663  
## 371 1154.6651 1668.892  
## 372 1298.8248 1707.679  
## 373 1157.4822 1614.790  
## 374 1244.8857 1718.675  
## 375 1106.5098 1601.836  
## 376 1076.5415 1658.325  
## 377 1189.8539 1675.542  
## 378 988.1778 1719.367  
## 379 1220.0336 1757.423  
## 380 1419.3496 1838.583  
## 381 1077.4138 1799.578  
## 382 1281.2665 1658.896  
## 383 1085.2239 1634.651  
## 384 1160.8209 1641.286  
## 385 1317.2849 1878.586  
## 386 1189.9134 1630.994  
## 387 980.0230 1480.481  
## 388 1252.6244 1691.126  
## 389 1008.8614 1511.370  
## 390 1089.6808 1613.462  
## 391 1196.8614 1829.204  
## 392 1165.1391 1816.637  
## 393 1382.0314 1750.090  
## 394 1330.9640 1655.462  
## 395 1130.4556 1664.538  
## 396 1042.5823 1615.393  
## 397 1549.5604 1732.028  
## 398 1058.1370 1744.557  
## 399 1176.0064 1567.159  
## 400 1297.7584 1780.717  
## 401 1220.3006 1870.777  
## 402 1407.0077 1908.480

## 403 1134.7184 1644.891  
## 404 1104.1961 1634.165  
## 405 1156.6501 1575.820  
## 406 1205.0903 1703.764  
## 407 1186.3631 1635.670  
## 408 1108.5711 1725.422  
## 409 1193.9441 1742.420  
## 410 1118.0929 1595.103  
## 411 1207.2778 1757.891  
## 412 1272.5804 1718.288  
## 413 1403.8396 1911.918  
## 414 1153.2924 1592.885  
## 415 1097.0633 1566.525  
## 416 1287.8372 1811.424  
## 417 1244.1853 1821.913  
## 418 1213.9477 1809.468  
## 419 1054.2893 1555.076  
## 420 1532.8478 1789.107  
## 421 1274.4577 1672.815  
## 422 1110.9319 1648.088  
## 423 1213.4157 1802.892  
## 424 1025.3439 1545.623  
## 425 1104.7560 1704.929  
## 426 1385.2014 1911.707  
## 427 1096.4672 1526.913  
## 428 1122.4395 1600.960  
## 429 1142.2540 1625.453  
## 430 1086.5117 1714.418  
## 431 996.5553 1495.374  
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## 433 1100.9763 1541.639  
## 434 1111.7113 1654.571  
## 435 1297.4807 1743.957  
## 436 1145.1876 1733.431  
## 437 1227.1198 1764.501  
## 438 1030.7653 1658.661  
## 439 1089.6705 1701.304  
## 440 1262.9232 1812.312  
## 441 1173.1465 1688.199  
## 442 1270.5382 1898.958  
## 443 1225.5831 1649.889  
## 444 1171.5341 1780.507  
## 445 1296.1380 1716.052  
## 446 951.6166 1417.251  
## 447 1041.6411 1587.429  
## 448 1149.5890 1669.216  
## 449 1180.9805 1740.688  
## 450 934.4319 1466.185  
## 451 1392.7911 1863.805  
## 452 1269.1304 1616.142  
## 453 1104.3609 1659.160  
## 454 1004.6120 1537.366  
## 455 1026.5475 1549.620  
## 456 1147.7669 1646.795

## 457 1225.7227 1812.696  
## 458 988.6369 1488.475  
## 459 1182.2296 1629.827  
## 460 1257.0872 1681.305  
## 461 1204.0602 1719.773  
## 462 1934.6036 1852.322  
## 463 1417.2088 1721.075  
## 464 1161.6715 1738.578  
## 465 1327.8706 1793.939  
## 466 1333.2987 1727.986  
## 467 1206.2539 1768.089  
## 468 1305.0512 1885.243  
## 469 1205.6330 1831.512  
## 470 1290.5138 1797.650  
## 471 1077.0118 1684.850  
## 472 1039.2153 1531.119  
## 473 1255.8065 1591.633  
## 474 1536.8775 1618.191  
## 475 1378.2816 1908.716  
## 476 1134.0580 1554.106  
## 477 1297.9842 1673.771  
## 478 1254.6013 1659.869  
## 479 1333.4895 1947.629  
## 480 1077.8412 1720.840  
## 481 1197.5871 1745.055  
## 482 1126.0315 1585.603  
## 483 1219.2538 1659.006  
## 484 1073.4984 1694.798  
## 485 1708.0244 1928.262  
## 486 1566.6935 2255.464  
## 487 1143.7861 1728.322  
## 488 1033.2992 1578.999  
## 489 1000.7152 1501.340  
## 490 1201.3131 1720.517  
## 491 1127.2059 1617.820  
## 492 1414.7825 1898.821  
## 493 1089.1566 1580.624  
## 494 1127.3970 1643.398  
## 495 1806.5360 1989.654  
## 496 1077.7765 1590.662  
## 497 1217.8223 1745.732  
## 498 1075.8126 1591.619  
## 499 1439.8511 1677.399  
## 500 1063.9603 1581.297  
## 501 1272.8517 1792.871  
## 502 1129.1324 1708.355  
## 503 1055.9956 1593.203  
## 504 1180.0635 1619.398  
## 505 1177.2192 1688.366  
## 506 1233.6591 1862.895  
## 507 1079.1009 1546.290  
## 508 1278.7141 1651.293  
## 509 1145.3538 1778.144  
## 510 1089.6450 1599.932

## 511	900.6001	1456.814
## 512	1085.7562	1658.430
## 513	1067.9386	1628.027
## 514	1093.6845	1587.678
## 515	986.2325	1625.959
## 516	1167.3046	1760.116
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## 17 0.45134523  0.634945095
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## 19 0.18362675  0.433564695
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## 518	0.25767359	0.467686704
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## 521	0.92362292	0.694560864
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## 529	0.35423955	0.922916310
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## 531	0.52353890	0.829943743
## 532	0.49475877	0.751552422
## 533	0.74290040	0.717335813
## 534	0.22709384	0.589351668

## 535	1.24670336	1.467614772
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## 537	0.53382066	0.313667675
## 538	0.97538707	0.657681952
## 539	0.77161501	0.544701045
## 540	0.58320818	1.625213114
## 541	0.66245672	0.605492581
## 542	0.58775362	1.051430500
## 543	0.14629095	0.555089516
## 544	0.71515897	0.851410199
## 545	0.32333980	0.421934568
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## 555	0.40211210	0.295886449
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## 559	0.95033239	0.956550573
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## 597	0.44600213	0.547639198
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## 618	1.15096284	1.451633115
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## 623	1.29260187	0.807972844
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## 625	0.26449573	0.431618059
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## 627	0.87817904	0.953109754
## 628	0.75406281	1.582790187
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## 691	0.57031355	0.923002103
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## 693	0.71047124	0.334944776
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## 697	0.58011427	0.816434135
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## 701	0.62841679	0.544293387
## 702	0.71903259	0.892023460
## 703	0.53806685	0.873156675
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## 707	0.67305896	0.619499551
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## 709	0.79150419	0.372362559
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## 715	0.40022426	0.201213747
## 716	0.55569218	0.507596760
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## 718	0.44914853	0.241182958
## 719	0.58393191	0.639070143
## 720	0.60579967	0.424895497
## 721	0.94842407	0.705430997
## 722	0.38804633	0.984194777
## 723	0.99814804	1.020530041
## 724	0.49797533	0.784681397
## 725	0.30239967	0.881383728
## 726	0.74380679	0.518111094
## 727	0.54414970	0.886854742
## 728	0.33634207	0.384488983
## 729	0.70117321	0.872899241
## 730	0.60504408	0.472104594
## 731	0.72891012	0.981803607
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## 740	0.54994547	0.327610866
## 741	0.88442567	1.325144109
## 742	0.46611613	0.609489730
## 743	0.79291634	0.605946166
## 744	0.83914230	0.820174047
## 745	0.72991481	0.192813036
## 746	0.44903282	0.494236381
## 747	0.42859561	0.770584289
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## 749	0.52042290	0.603481121
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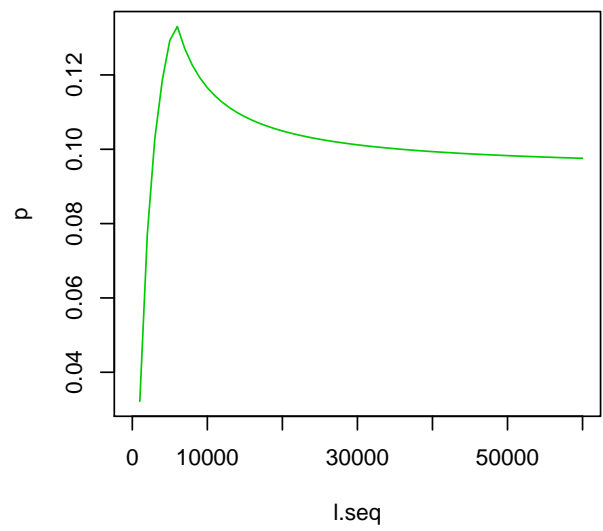
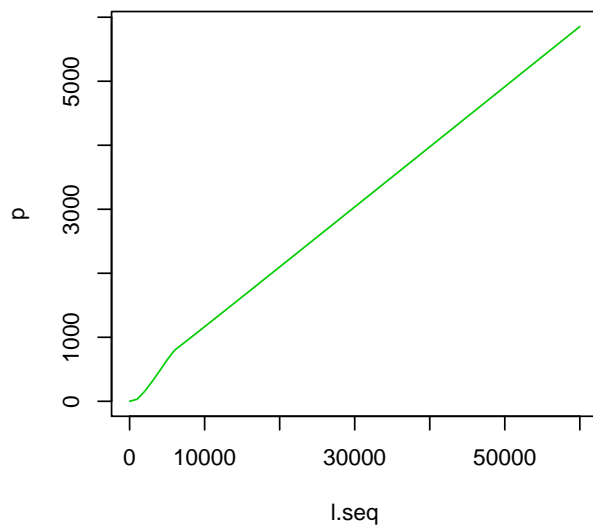
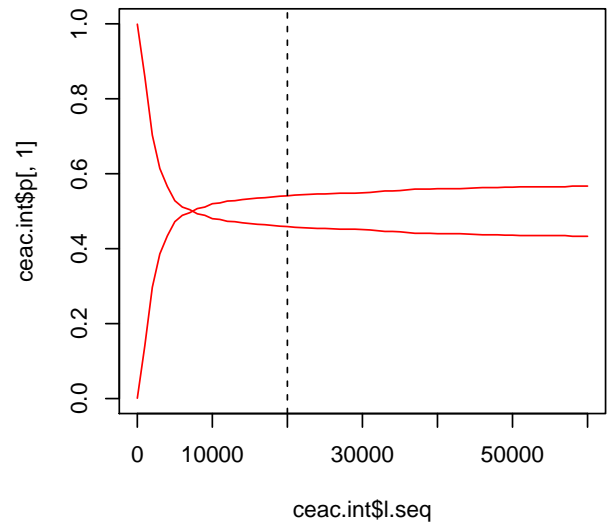
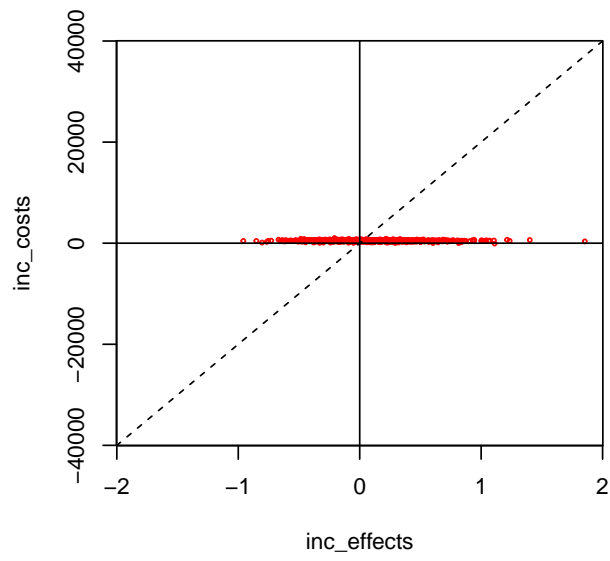
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## 779	0.63936711	1.014082225
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## 796	0.28498099	0.533090067
## 797	0.79009520	0.338303455
## 798	0.81570899	1.365805031
## 799	0.48639628	1.591848650
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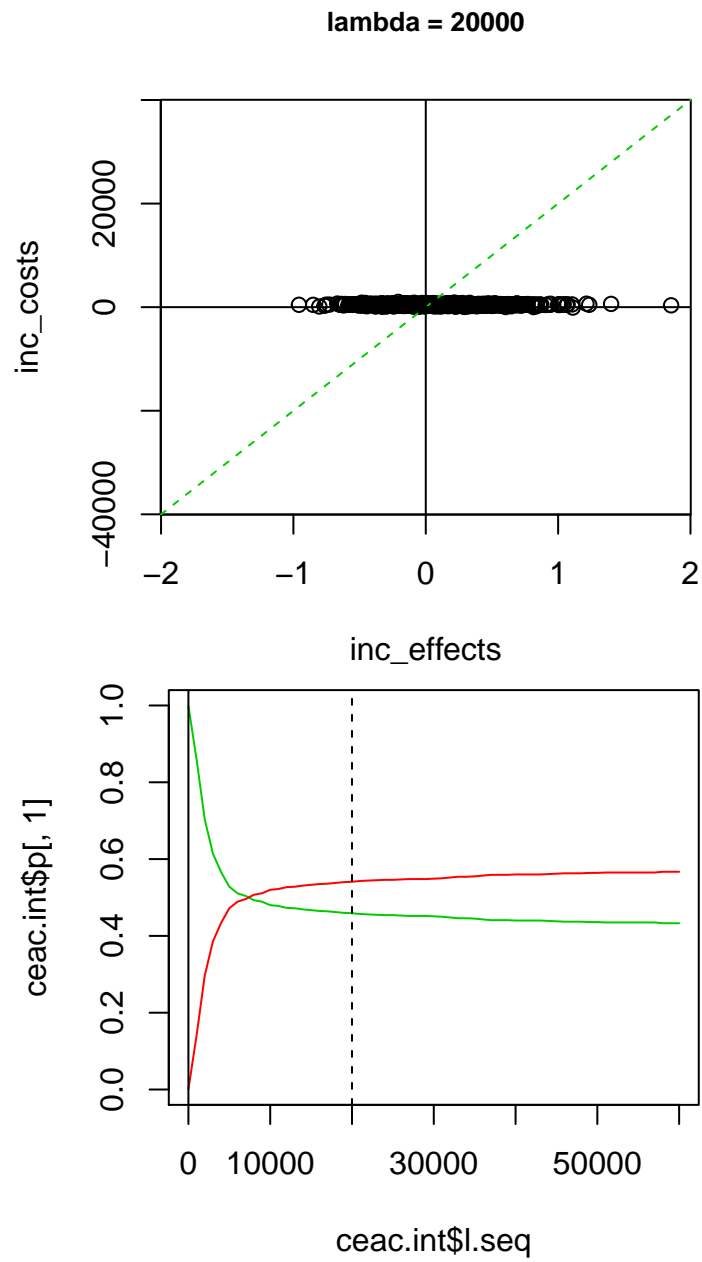
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## 942	1.08921631	0.556968140
## 943	0.82856985	1.035267448
## 944	0.65678496	0.414889579
## 945	0.96560167	0.807883445
## 946	0.34204079	0.243156592
## 947	0.85044232	0.713928501
## 948	1.26954439	1.460558500
## 949	0.18696198	0.719835026
## 950	0.67196351	0.568414773
## 951	0.92475185	0.838889576
## 952	0.23639056	0.350166227
## 953	0.69892104	0.293417781
## 954	0.45244981	0.749416318
## 955	0.60581552	0.440244778
## 956	0.15124511	0.411246513
## 957	0.67220724	0.488974708
## 958	1.09525783	0.834656699
## 959	0.83594719	0.661092435
## 960	0.17439870	0.686767396
## 961	0.51456968	0.378396571
## 962	0.18635012	0.597784445
## 963	0.47845941	0.178527596
## 964	1.47322273	0.668703024
## 965	1.05408453	1.283949428
## 966	0.74157843	1.078585862

## 967	0.38119739	1.090823940
## 968	0.89770506	0.560990893
## 969	0.11052690	0.168898662
## 970	0.58851253	0.435188003
## 971	0.61495236	0.528271438
## 972	0.24519550	0.410550423
## 973	0.33337631	0.120117044
## 974	0.78034649	0.519683217
## 975	0.48001075	0.580990912
## 976	1.28705223	1.124178055
## 977	0.73201387	1.082610572
## 978	0.22657628	0.607118089
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## 981	0.71815025	1.531307915
## 982	0.33434889	0.342325908
## 983	1.18089136	0.852197055
## 984	0.13095115	0.343854975
## 985	0.65745379	0.566231506
## 986	1.78201915	0.823907693
## 987	0.72380057	0.370480103
## 988	0.33566275	0.123847281
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## 990	0.53529269	0.173007489
## 991	0.70836084	0.782411012
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## 993	0.35410564	0.363735073
## 994	0.50709762	1.007212327
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## 996	0.64737214	1.717809140
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## 999	0.80339679	0.429615867
## 1000	1.16817956	1.533486028







##	costs1	costs2
## 1	1144.9554	1675.497
## 2	1164.3006	1732.737
## 3	1066.6565	1611.727
## 4	1222.8029	2106.905
## 5	1141.9543	1682.730
## 6	1112.0814	1586.620
## 7	1234.9967	1731.021
## 8	1318.6354	1729.671
## 9	1191.0046	1830.979
## 10	1292.2706	1679.843
## 11	1529.7370	1645.530
## 12	1397.3261	1664.098
## 13	1089.1057	1658.608

## 14	988.4160	1471.997
## 15	1387.5101	1820.132
## 16	1155.1030	1722.649
## 17	1246.2557	1736.325
## 18	1293.3890	1685.546
## 19	1182.0352	1630.820
## 20	1454.7576	1894.044
## 21	1250.0721	1702.669
## 22	1138.3152	1910.948
## 23	1117.7369	1669.827
## 24	1001.6835	1500.359
## 25	1089.4109	1741.678
## 26	1118.8445	1658.876
## 27	1214.3058	1668.043
## 28	1061.4559	1545.373
## 29	1218.9306	1554.367
## 30	1207.8865	1649.229
## 31	1372.5651	1874.604
## 32	1265.1556	1728.497
## 33	1282.6147	1785.939
## 34	1048.5176	1751.039
## 35	1116.7245	1561.841
## 36	1187.3460	1712.348
## 37	1217.3568	1630.267
## 38	1160.5324	1692.959
## 39	1542.1447	2089.189
## 40	1308.5705	1751.250
## 41	1271.0411	1675.513
## 42	1187.3303	1589.626
## 43	1233.9301	1781.707
## 44	1317.2545	1814.240
## 45	1163.4932	1613.329
## 46	1154.5179	1608.349
## 47	1207.2659	1668.776
## 48	1232.1981	1696.682
## 49	1265.1392	1715.216
## 50	1194.2102	1639.217
## 51	1301.0560	1718.574
## 52	1177.4922	1673.147
## 53	1288.0900	1666.396
## 54	1075.7872	1580.996
## 55	1321.7263	1784.928
## 56	1325.9916	1745.821
## 57	1118.6180	1554.420
## 58	1107.6183	1583.290
## 59	1360.6920	1803.645
## 60	1214.2952	1619.200
## 61	1326.0716	1959.642
## 62	1236.7579	1735.127
## 63	1305.4258	1654.506
## 64	1111.3743	1766.366
## 65	1115.7940	1693.898
## 66	1168.2906	1787.146
## 67	1012.3806	1520.073

## 68	1391.5787	1711.828
## 69	1227.2305	1670.636
## 70	1460.3447	1901.910
## 71	1399.9545	1576.359
## 72	1165.8518	1596.666
## 73	1294.3992	1653.147
## 74	1112.2073	1617.448
## 75	1144.2860	1577.323
## 76	1218.3472	1783.772
## 77	1262.8269	1642.686
## 78	1167.9916	1658.463
## 79	1223.3334	1679.680
## 80	1225.4042	1610.656
## 81	1245.6786	1615.262
## 82	1192.1662	1684.170
## 83	1374.5075	1806.253
## 84	1025.8380	1522.608
## 85	1122.9751	1767.354
## 86	1407.5425	1613.589
## 87	1545.4997	1763.118
## 88	1154.1082	1705.382
## 89	1201.4353	1776.644
## 90	1112.7314	1683.287
## 91	1221.6792	1617.833
## 92	1535.9429	1817.273
## 93	1421.9918	1685.878
## 94	1154.6893	1789.655
## 95	1533.6434	1884.476
## 96	1186.9438	1689.658
## 97	1097.2175	1569.715
## 98	1161.7856	1641.129
## 99	1130.2418	1588.996
## 100	1158.5699	1632.283
## 101	1107.7015	1584.009
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## 103	1124.8910	1594.650
## 104	1253.4977	1663.592
## 105	1100.3042	1625.972
## 106	1427.2233	1774.836
## 107	1191.0451	1737.361
## 108	1296.6184	1711.036
## 109	1240.2474	1792.711
## 110	1401.8986	1882.351
## 111	1135.7877	1623.482
## 112	1196.4276	1674.405
## 113	1359.3680	2022.398
## 114	1244.4030	1592.101
## 115	1220.4347	1759.913
## 116	1126.2794	1645.264
## 117	1233.0672	1778.485
## 118	1208.7656	1614.556
## 119	1032.8564	1662.630
## 120	1182.4927	1624.602
## 121	1156.1843	1674.106

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##	233	1062.6458	1621.300
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##	288	1041.9160	1834.535
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##	5	0.65455054	0.306215369
##	6	0.38986519	0.788784527
##	7	0.76952961	1.270745950
##	8	0.53487228	0.498341874
##	9	0.43450574	0.183683449
##	10	0.54647812	0.513833599
##	11	0.78858672	0.489727358
##	12	0.58998297	0.610913185
##	13	0.38011363	0.974925328
##	14	0.90208109	1.097561069
##	15	0.84672719	0.651297221
##	16	0.91992661	0.399327698
##	17	0.45134523	0.634945095
##	18	0.18801201	0.287204154
##	19	0.18362675	0.433564695
##	20	0.36610475	1.384142625
##	21	0.49718001	0.676846306
##	22	0.70973323	0.562377963
##	23	0.60237175	0.399135001
##	24	0.12300798	0.054794449
##	25	0.71147832	0.990043201
##	26	0.70123451	0.504980995
##	27	0.84832390	0.814697226
##	28	0.92134582	0.935177171
##	29	0.64347138	0.900279417
##	30	0.50507182	0.528397919
##	31	0.80878143	1.065627762
##	32	0.46596329	1.211906572
##	33	0.52615280	0.403398716
##	34	0.41183129	0.926227894
##	35	1.08574628	0.688960609
##	36	0.73063161	0.540673324
##	37	0.43512006	0.582525571

## 38	0.30087233	0.446563439
## 39	0.36013231	0.839616939
## 40	0.48439306	1.548768858
## 41	0.31599723	0.202112569
## 42	0.42961891	0.557327927
## 43	0.39677275	0.664610296
## 44	0.39783461	0.249795509
## 45	0.50259497	0.611624269
## 46	0.50175898	1.047902089
## 47	0.84155612	0.257795749
## 48	0.35094238	0.572981741
## 49	0.68814232	0.486913672
## 50	0.57384374	1.441940362
## 51	0.32891368	0.817483030
## 52	0.72282484	1.032066392
## 53	0.59304942	0.484774979
## 54	0.99428983	0.935558692
## 55	0.75369002	0.463626047
## 56	0.40883802	0.601754315
## 57	0.24981931	0.486372311
## 58	0.48051715	0.854444333
## 59	0.29680246	0.552071230
## 60	0.56121014	1.565288311
## 61	0.78738853	0.777141480
## 62	0.31088119	0.249476713
## 63	0.70435298	0.509221931
## 64	0.82611627	0.851663266
## 65	0.65230245	0.338070842
## 66	0.43673806	0.732708105
## 67	0.47398861	0.566140139
## 68	0.32644083	0.408170468
## 69	0.52813937	0.341701361
## 70	0.94751636	1.057569202
## 71	0.16626749	0.811253793
## 72	0.34740476	0.229807403
## 73	0.92536645	1.191003507
## 74	0.35756852	0.684716934
## 75	1.47945451	1.109720148
## 76	0.47173023	0.916231673
## 77	0.74595026	0.600382828
## 78	0.44743747	0.450712238
## 79	0.41060654	1.237940824
## 80	0.47913373	0.396849162
## 81	0.44660233	0.263310480
## 82	1.33990842	0.715268996
## 83	0.99967195	0.777401619
## 84	0.49983124	1.153542984
## 85	0.53394583	0.506681637
## 86	0.40720505	1.245786548
## 87	0.68818491	0.523906605
## 88	0.96407219	0.657811492
## 89	0.56292460	0.645686917
## 90	1.20026918	1.852878640
## 91	0.46503223	0.919998758

## 92	0.50023566	0.324600392
## 93	0.25064956	0.682474241
## 94	1.02491087	0.645753784
## 95	0.91756350	0.579461474
## 96	0.81795720	0.685227885
## 97	0.45513946	0.534694439
## 98	0.44007161	0.885905546
## 99	0.83322259	0.591893439
## 100	0.51077015	0.700565336
## 101	1.05677268	0.742901661
## 102	0.43980691	0.438899369
## 103	0.48562170	0.770213476
## 104	0.49096306	0.516469169
## 105	0.52218955	1.285605354
## 106	0.37238322	0.442681891
## 107	0.40655769	0.657703548
## 108	0.91422785	0.845768668
## 109	0.70633467	1.110525551
## 110	0.76077657	1.065890977
## 111	0.88491169	0.437518111
## 112	0.39744088	0.789448755
## 113	0.86495125	0.775605894
## 114	0.50367704	0.705898403
## 115	0.44485630	0.845815400
## 116	0.15285302	0.411062048
## 117	0.71849525	0.813894694
## 118	0.35451137	0.605002910
## 119	0.57614463	0.433023510
## 120	0.52048146	0.597597273
## 121	0.79790186	1.165191212
## 122	1.12461109	0.732247025
## 123	0.39150033	0.561266247
## 124	0.41420788	0.642853677
## 125	0.32239640	0.492266048
## 126	0.76332743	1.485556432
## 127	0.66208576	0.762363075
## 128	0.40948519	0.546889007
## 129	0.87817873	0.721228527
## 130	0.33013188	0.676186623
## 131	0.38642980	0.435109130
## 132	0.38422561	0.957551799
## 133	0.64377294	0.642578921
## 134	0.69395256	0.889115747
## 135	0.30247077	0.241120810
## 136	1.02446954	0.762657125
## 137	0.12356520	0.382537461
## 138	0.55682534	0.707023217
## 139	0.57968334	0.503520663
## 140	0.58328692	1.019611524
## 141	0.93289387	0.550557243
## 142	0.77418514	0.846285186
## 143	1.38281212	0.629719395
## 144	0.36506662	0.263460612
## 145	1.00075759	0.713122920

## 146	1.26559329	0.976844601
## 147	0.16068273	0.693576230
## 148	0.29350203	0.363818911
## 149	1.17704391	1.108378904
## 150	0.60906388	0.583816696
## 151	0.91065875	1.187067554
## 152	0.29366785	0.093636790
## 153	0.58799816	0.427029115
## 154	0.57418753	0.379524503
## 155	1.21016569	0.359234297
## 156	0.21688713	0.316116893
## 157	0.57892206	0.455719076
## 158	1.06459920	0.998913257
## 159	0.57824071	1.274794433
## 160	0.13830389	0.395244931
## 161	0.64316239	0.490794220
## 162	0.57638163	0.414190812
## 163	0.56637084	0.477659593
## 164	0.55110471	0.627484510
## 165	0.49165874	0.706946437
## 166	0.58917542	0.583136637
## 167	0.56558132	0.534366626
## 168	0.52852450	0.623415933
## 169	0.36601760	0.479586332
## 170	0.65929628	0.683328534
## 171	0.45034485	0.365261915
## 172	0.23507804	0.006753674
## 173	0.38860503	0.544385181
## 174	0.18033567	0.507726133
## 175	0.19206371	0.703521286
## 176	0.51955001	0.158769603
## 177	0.16470362	0.666516225
## 178	0.24190368	0.574219661
## 179	0.36414387	0.901449411
## 180	0.16260626	0.529984378
## 181	0.65168309	0.767654623
## 182	0.62906388	0.569539340
## 183	0.39106485	0.262665634
## 184	0.69429074	0.850572621
## 185	0.44730633	0.833163040
## 186	0.54795768	0.674251512
## 187	0.64302683	0.811892763
## 188	0.47678130	1.036229432
## 189	0.34150589	0.520462735
## 190	0.48542843	0.875016640
## 191	0.61863894	0.587671234
## 192	1.06943982	0.675735025
## 193	0.72734497	0.619212582
## 194	0.08557317	0.855843254
## 195	0.56694365	0.494252223
## 196	0.85441980	0.480282194
## 197	0.39459419	0.537908869
## 198	0.79186863	1.066860917
## 199	1.53591609	1.050679831

## 200	0.54774805	0.661962715
## 201	1.23966548	0.818293153
## 202	0.20091530	0.671135602
## 203	0.19520139	0.842952516
## 204	0.96740501	0.988070014
## 205	0.63580357	0.691556980
## 206	0.11355015	0.626748414
## 207	0.31880242	0.627616360
## 208	0.53810282	0.501908035
## 209	1.09771243	0.455048039
## 210	0.49431803	1.077079728
## 211	0.61250419	0.176563110
## 212	0.10927085	0.338040513
## 213	0.34945183	0.875563107
## 214	0.64719960	1.330276821
## 215	0.66232007	0.495048822
## 216	0.73818866	0.896905855
## 217	0.52339370	0.661606314
## 218	0.35116115	0.506610340
## 219	0.33583428	0.415404326
## 220	0.38323431	0.604445990
## 221	0.24363987	1.312504059
## 222	0.68384672	0.778126944
## 223	0.58852655	0.826776874
## 224	0.89383996	0.466116325
## 225	0.39887460	0.158115147
## 226	0.46120747	0.616622141
## 227	0.19334121	0.467238394
## 228	0.35926610	0.499580386
## 229	0.33208352	0.970291402
## 230	0.80178424	0.780876492
## 231	1.34548651	1.612751654
## 232	0.88629339	1.254219220
## 233	0.56530369	0.505645664
## 234	0.50795487	0.727268282
## 235	1.09643659	1.120571819
## 236	0.41260438	0.482640453
## 237	0.91649821	1.412351365
## 238	0.47376681	0.356237828
## 239	0.57828112	1.279413425
## 240	0.81969897	0.904460859
## 241	0.44389496	0.675195614
## 242	1.00889993	1.178568396
## 243	0.65531924	0.836709367
## 244	0.59630847	0.581596129
## 245	1.00087780	0.753555304
## 246	0.78233451	0.422757679
## 247	0.90864426	0.655904132
## 248	0.67086171	0.759125550
## 249	0.35638806	0.858468676
## 250	0.63555298	0.395026466
## 251	0.77181703	1.422773818
## 252	0.62757735	0.746919705
## 253	0.43671295	0.371328463



## 254	1.28623555	1.066146221
## 255	0.58220700	0.643050248
## 256	0.43944565	0.660047071
## 257	0.60011288	0.482734323
## 258	0.77184827	1.106334355
## 259	0.41969022	0.658193019
## 260	0.54582152	0.322489047
## 261	0.38854693	0.524560233
## 262	0.31045590	0.594442274
## 263	0.96083443	0.509723364
## 264	0.19780205	0.315428263
## 265	1.02527425	1.098071155
## 266	1.05164907	0.634093405
## 267	0.77163091	0.726084740
## 268	0.80729282	0.549078817
## 269	1.21915099	1.328309572
## 270	0.74194709	0.985251475
## 271	1.09269306	0.789133919
## 272	0.31955441	0.942634888
## 273	0.24981941	0.202819196
## 274	0.64727375	0.868685782
## 275	0.64407738	0.849330845
## 276	0.62405112	0.943571574
## 277	0.39098014	0.519784797
## 278	0.83015401	0.680031893
## 279	0.41270663	0.280575000
## 280	0.96124172	0.793941892
## 281	1.55916222	0.922281980
## 282	0.88987049	0.803103452
## 283	0.51944711	0.432997650
## 284	0.37400121	0.448502871
## 285	0.81095660	0.907995719
## 286	0.46858405	0.723836919
## 287	0.64952127	1.144095283
## 288	0.68861752	0.700980504
## 289	1.10450271	1.112538140
## 290	0.31699054	0.615813520
## 291	0.40762676	0.419396544
## 292	0.62470111	0.601033279
## 293	0.57249638	0.322351627
## 294	0.44712548	0.826598187
## 295	1.09062191	0.713579037
## 296	0.35452946	0.205383751
## 297	1.01507327	0.878730947
## 298	0.26851056	0.367699652
## 299	1.19034853	1.625542178
## 300	0.84944518	1.085586229
## 301	0.55038928	0.995511187
## 302	0.73827366	0.594930297
## 303	0.52291950	0.767910460
## 304	0.62445475	0.844558989
## 305	0.50901713	0.515449199
## 306	0.31625373	0.730610261
## 307	0.46809878	0.375530988

## 308	0.47807980	0.502402708
## 309	1.42189262	0.894453878
## 310	0.60913544	1.171854863
## 311	0.31213942	0.663313852
## 312	0.29924792	0.589192514
## 313	0.14604529	0.506820031
## 314	0.72944848	1.119999143
## 315	0.80734255	0.504810022
## 316	0.50554255	0.417517932
## 317	0.30904890	0.753505491
## 318	0.40099260	0.911527325
## 319	0.59615698	0.553088845
## 320	0.86032689	1.040292632
## 321	0.70993942	1.399525842
## 322	0.32717776	0.334534370
## 323	0.85944807	1.042145023
## 324	0.27602949	0.802892025
## 325	0.98531138	0.965804394
## 326	0.63642626	0.159855939
## 327	0.55375840	1.158054897
## 328	0.78123994	1.183083537
## 329	0.34192497	0.506688028
## 330	0.50095100	0.776353376
## 331	1.15549875	1.284623345
## 332	0.62472787	0.698679021
## 333	0.55061627	0.466581653
## 334	0.80055055	0.573904629
## 335	0.68676106	0.501091384
## 336	0.40532612	0.858834803
## 337	0.29038421	0.048172109
## 338	0.74111793	0.510973170
## 339	0.42533065	0.715086147
## 340	0.81916015	1.025792171
## 341	0.71696573	0.622937847
## 342	0.73338622	0.924000884
## 343	0.68123924	0.802472946
## 344	0.50931790	0.438337878
## 345	0.57898307	0.422041494
## 346	0.40267895	0.368301185
## 347	0.56414145	0.495039889
## 348	0.50864629	0.216526043
## 349	0.45357027	0.817324546
## 350	0.81667765	0.359018278
## 351	0.30767388	0.259697377
## 352	0.70045446	0.527362556
## 353	0.56672077	0.073721353
## 354	0.37896220	0.660510864
## 355	0.72176400	0.638410054
## 356	0.51338494	0.408085850
## 357	0.61163935	0.188291504
## 358	0.60658100	0.383942819
## 359	0.95345443	0.377345454
## 360	0.67453466	0.675975359
## 361	0.56584951	0.818457611

## 362	0.62563957	0.615190562
## 363	1.22014087	0.889711564
## 364	0.78831929	0.369656338
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## 366	0.44092835	0.610284535
## 367	0.81184787	0.448187158
## 368	1.11777719	1.043476908
## 369	0.51109555	0.736428947
## 370	0.86079495	0.727341031
## 371	0.83453990	1.027561319
## 372	0.10809634	0.591436407
## 373	1.05353530	0.655947207
## 374	0.86858025	0.443407972
## 375	0.69397042	1.038305667
## 376	0.09337629	0.020353964
## 377	0.88694251	0.731113232
## 378	0.89444492	0.608151657
## 379	0.59060812	0.097923714
## 380	1.27422424	0.952032330
## 381	0.51222980	0.184028571
## 382	0.37797377	0.343112101
## 383	0.43579578	0.513187220
## 384	0.72611923	0.501032973
## 385	0.29418654	0.461670408
## 386	0.83734099	0.643883911
## 387	0.54224830	0.430156006
## 388	0.42121182	0.443015518
## 389	0.70211559	0.955795695
## 390	0.35283013	0.684210129
## 391	0.57836398	0.342183013
## 392	0.62851740	0.842172812
## 393	0.74691164	0.719080706
## 394	0.74001631	0.443150161
## 395	0.30325498	0.333351855
## 396	0.64926895	0.713512080
## 397	0.39072549	0.512755101
## 398	0.52085871	0.837048693
## 399	0.42160878	0.852108837
## 400	0.61033821	1.015178239
## 401	1.29626006	1.780054238
## 402	0.33118855	0.500549152
## 403	0.33402212	0.216081452
## 404	0.38835317	0.848949330
## 405	0.65091940	0.723141682
## 406	0.24707331	0.522264042
## 407	0.59243254	0.509323458
## 408	0.53460499	1.230843273
## 409	0.60584761	1.013037555
## 410	0.47469903	0.462979677
## 411	0.45781131	0.847154893
## 412	0.74607546	0.683307579
## 413	0.73107189	0.594008344
## 414	0.49202434	0.364977353
## 415	0.50374081	0.213520554

## 416	0.46953803	0.324989961
## 417	0.63094311	0.379309241
## 418	0.54085847	0.523079959
## 419	0.72847862	0.873588428
## 420	0.53774091	0.505922555
## 421	0.42857225	0.788862578
## 422	0.71565586	0.702821854
## 423	0.31254077	0.366018558
## 424	0.21179359	0.470167897
## 425	0.47430630	1.403811672
## 426	0.09259063	1.095228760
## 427	1.03365136	0.699265303
## 428	0.20595662	0.358562602
## 429	0.54255947	0.763908550
## 430	0.32057522	1.720863421
## 431	0.69290193	0.358623668
## 432	0.73215865	0.277347998
## 433	0.54042382	0.310727113
## 434	0.44457874	0.541659365
## 435	0.97650641	0.648310407
## 436	0.29783146	0.144711908
## 437	0.75497231	0.763889357
## 438	0.45209044	0.500110263
## 439	0.80749873	1.055196646
## 440	0.32402527	0.355848758
## 441	0.30120824	0.457663756
## 442	0.87000076	0.695196023
## 443	1.16521612	1.165501672
## 444	0.53676190	0.599259010
## 445	0.64001975	0.785268326
## 446	0.76734375	0.643066499
## 447	0.92141221	1.083557421
## 448	0.99000311	0.971710869
## 449	0.41566876	0.784323767
## 450	0.82056023	0.609645753
## 451	0.23911817	0.202652289
## 452	0.29430044	0.128854543
## 453	0.71775160	0.601628987
## 454	0.71470084	1.140875711
## 455	0.10424954	0.557128736
## 456	1.06801070	1.346376973
## 457	0.22836979	0.519516259
## 458	0.46105607	0.406151144
## 459	0.36944020	0.384354973
## 460	0.77168069	1.325056822
## 461	0.27014320	0.479182619
## 462	0.38510256	1.496073935
## 463	0.32681038	0.490173911
## 464	0.66630652	0.589705717
## 465	0.76951999	0.878936734
## 466	1.03064085	0.635958743
## 467	0.61631410	0.629169480
## 468	0.35871444	0.182539075
## 469	0.65302671	0.756429134

## 470	0.43445703	1.274945305
## 471	0.39916426	0.336858518
## 472	0.25535067	0.170547869
## 473	0.43828909	0.613027299
## 474	0.58250246	0.530719118
## 475	0.67880520	0.506158540
## 476	0.16794845	1.074756135
## 477	0.19878380	0.734980771
## 478	0.30664725	0.448290361
## 479	0.38094066	0.655718459
## 480	0.45191651	0.127877328
## 481	0.70092714	0.409585915
## 482	0.95020643	1.704782263
## 483	0.32863609	0.526796778
## 484	0.80322028	0.451745384
## 485	0.27577454	0.452612141
## 486	1.02418767	0.356010585
## 487	0.28116174	0.985364786
## 488	0.74257638	0.458782832
## 489	0.72143976	0.650322620
## 490	0.99784597	0.597729307
## 491	0.52408239	0.952588378
## 492	0.83062826	1.188890699
## 493	0.70478184	0.333943402
## 494	0.45054743	0.505954903
## 495	0.36676106	0.482626494
## 496	0.63347832	0.259709431
## 497	0.65922342	0.811687470
## 498	0.86713223	1.440014794
## 499	0.56374831	0.839771160
## 500	0.75831584	1.149672061
## 501	0.73876447	0.438586655
## 502	0.31754693	0.822455257
## 503	0.43580465	0.923864337
## 504	1.17231389	0.621020534
## 505	0.92703677	0.938326220
## 506	0.42330336	0.582057308
## 507	0.29052230	0.260778883
## 508	0.51787728	0.567717379
## 509	0.82529872	0.654317374
## 510	1.04731850	1.061527072
## 511	0.63909586	0.557398719
## 512	0.22332203	0.207487704
## 513	0.78391651	0.635073963
## 514	0.52544413	0.613415685
## 515	1.79521047	1.412304508
## 516	0.69610814	0.826137378
## 517	1.06594254	0.457996765
## 518	0.25767359	0.467686704
## 519	0.91680015	0.735984383
## 520	0.93353149	0.946410004
## 521	0.92362292	0.694560864
## 522	0.58433439	0.212404423
## 523	0.57422729	0.823123605

## 524	0.75096241	0.802776080
## 525	0.50563862	0.684387628
## 526	1.18218577	1.029379773
## 527	0.84453948	0.646849466
## 528	0.35239059	0.324510229
## 529	0.35423955	0.922916310
## 530	0.92924229	1.009829124
## 531	0.52353890	0.829943743
## 532	0.49475877	0.751552422
## 533	0.74290040	0.717335813
## 534	0.22709384	0.589351668
## 535	1.24670336	1.467614772
## 536	0.64675924	1.507160090
## 537	0.53382066	0.313667675
## 538	0.97538707	0.657681952
## 539	0.77161501	0.544701045
## 540	0.58320818	1.625213114
## 541	0.66245672	0.605492581
## 542	0.58775362	1.051430500
## 543	0.14629095	0.555089516
## 544	0.71515897	0.851410199
## 545	0.32333980	0.421934568
## 546	0.68791732	0.248350534
## 547	1.85756918	1.586501626
## 548	1.10912475	0.488729696
## 549	0.76742678	1.122873153
## 550	0.14932790	0.845193327
## 551	0.54759046	0.585937080
## 552	0.50848313	0.573379168
## 553	1.28299985	1.389320522
## 554	0.26610730	0.543649784
## 555	0.40211210	0.295886449
## 556	0.28584839	0.462838254
## 557	0.82461744	0.817316929
## 558	0.28231811	0.191500216
## 559	0.95033239	0.956550573
## 560	0.26826046	0.501932442
## 561	0.91128200	0.475499952
## 562	0.54476247	0.695048210
## 563	1.05228502	0.721323490
## 564	0.33644672	0.640182985
## 565	0.64095169	0.234936338
## 566	0.92598043	0.834321580
## 567	1.15621407	0.778986135
## 568	0.50313156	0.640494240
## 569	0.55396901	0.020603599
## 570	0.84418945	0.645868665
## 571	0.19560229	0.475129332
## 572	0.73863463	0.357367269
## 573	0.82056865	0.648993026
## 574	0.48698128	0.683605304
## 575	0.70797410	0.626495551
## 576	0.46680874	-0.013319814
## 577	0.59487940	0.317094394

## 578	0.32807085	0.409112027
## 579	0.64346522	0.547035898
## 580	0.63390942	1.242526624
## 581	0.88197700	1.508582228
## 582	0.53000912	1.000840920
## 583	0.50985940	0.923081561
## 584	0.18601824	0.478056550
## 585	0.33012037	0.965415819
## 586	0.53196106	0.604889114
## 587	0.63618755	1.300630895
## 588	0.53718119	0.338173767
## 589	0.25124302	0.679808594
## 590	0.63168497	0.518324748
## 591	0.42763048	0.566455909
## 592	0.59555435	0.610171632
## 593	0.54510100	0.760708151
## 594	0.34383976	1.015890956
## 595	0.44755107	0.363629001
## 596	0.40910124	0.494850649
## 597	0.44600213	0.547639198
## 598	0.35101452	0.249061695
## 599	1.43196285	1.384953180
## 600	0.20330267	0.765595431
## 601	0.76391308	1.293677066
## 602	0.67973139	1.710649755
## 603	0.94692503	0.954594122
## 604	0.34940882	0.850855533
## 605	0.58471001	0.422692749
## 606	0.32930709	0.452328901
## 607	0.29359635	0.424540085
## 608	0.76936527	0.718825989
## 609	0.39877253	1.001980646
## 610	0.40821739	0.093828473
## 611	0.45350895	0.759749008
## 612	0.58400308	0.847842576
## 613	0.77663264	0.688669107
## 614	0.54916178	0.496998259
## 615	0.81198906	1.000858183
## 616	0.28603899	0.483910585
## 617	0.58428142	0.334158676
## 618	1.15096284	1.451633115
## 619	1.01054880	1.184581424
## 620	1.02113357	0.452681252
## 621	0.51428474	0.573432996
## 622	0.44638315	0.540682125
## 623	1.29260187	0.807972844
## 624	1.15580402	0.826286401
## 625	0.26449573	0.431618059
## 626	0.60966482	0.844319669
## 627	0.87817904	0.953109754
## 628	0.75406281	1.582790187
## 629	0.65419346	0.507358847
## 630	0.57593644	0.448375708
## 631	1.04001557	0.311374457

## 632	1.19949330	1.154186439
## 633	0.87633652	2.111345061
## 634	0.34600974	0.484484193
## 635	1.25017745	0.704946369
## 636	0.58281103	0.410809449
## 637	0.21418125	2.067914129
## 638	0.19244683	0.269595463
## 639	0.35239186	0.397811664
## 640	0.74952066	0.370991407
## 641	0.48960326	0.674035976
## 642	0.63700048	0.369885376
## 643	0.37534107	1.104308594
## 644	0.50770186	0.521918830
## 645	0.67130157	0.738325511
## 646	0.88137774	1.012155080
## 647	1.08691361	0.999918963
## 648	0.81062890	1.188878368
## 649	0.45511101	0.850834536
## 650	0.87745541	0.594250276
## 651	0.53725117	0.232733740
## 652	1.02279099	1.159805774
## 653	0.21457118	1.156115017
## 654	0.80854979	0.757060115
## 655	0.45320028	0.526491308
## 656	0.68096453	0.471944544
## 657	0.47393980	0.186024315
## 658	0.44066193	0.578567629
## 659	0.67864008	0.649026452
## 660	0.39302032	0.765807654
## 661	0.39062360	0.388124167
## 662	0.64224253	0.627926228
## 663	0.67424118	1.537070617
## 664	0.69824919	0.696871802
## 665	0.44739483	0.397211848
## 666	0.50617817	0.527032263
## 667	0.12630219	0.999631424
## 668	0.79134116	1.159138859
## 669	1.03189068	0.810206404
## 670	0.50087452	0.732530308
## 671	0.22101233	0.793188625
## 672	0.90283127	0.903565684
## 673	0.60430341	1.197280503
## 674	0.51221088	1.055097511
## 675	1.00384800	0.990517452
## 676	0.40711112	1.051668231
## 677	0.62537065	0.817759592
## 678	0.41817921	0.673392799
## 679	0.31106363	0.510430207
## 680	0.52480621	0.545653762
## 681	0.64434870	0.636429368
## 682	1.45525744	0.954793903
## 683	0.59597181	0.302542750
## 684	1.42151197	1.086063825
## 685	0.73659704	0.755111826



## 686	0.33302579	0.644402150
## 687	0.59832243	0.865572143
## 688	0.42099740	0.528020353
## 689	0.55243856	0.636347053
## 690	0.44984829	0.517489524
## 691	0.57031355	0.923002103
## 692	0.40583206	0.537088924
## 693	0.71047124	0.334944776
## 694	0.69055494	0.357302530
## 695	0.42987582	1.035719376
## 696	0.68370745	1.108162854
## 697	0.58011427	0.816434135
## 698	0.75735796	0.947172212
## 699	0.62878346	0.927711639
## 700	0.45925580	0.503673327
## 701	0.62841679	0.544293387
## 702	0.71903259	0.892023460
## 703	0.53806685	0.873156675
## 704	0.44528978	0.550651423
## 705	0.90969792	0.946525578
## 706	0.72930726	0.490239380
## 707	0.67305896	0.619499551
## 708	0.61987511	0.850091897
## 709	0.79150419	0.372362559
## 710	0.28297721	0.961848897
## 711	0.42903060	0.716004959
## 712	0.59719354	0.400541826
## 713	0.26968152	0.622620943
## 714	0.43253914	0.544434513
## 715	0.40022426	0.201213747
## 716	0.55569218	0.507596760
## 717	0.75033472	0.520772058
## 718	0.44914853	0.241182958
## 719	0.58393191	0.639070143
## 720	0.60579967	0.424895497
## 721	0.94842407	0.705430997
## 722	0.38804633	0.984194777
## 723	0.99814804	1.020530041
## 724	0.49797533	0.784681397
## 725	0.30239967	0.881383728
## 726	0.74380679	0.518111094
## 727	0.54414970	0.886854742
## 728	0.33634207	0.384488983
## 729	0.70117321	0.872899241
## 730	0.60504408	0.472104594
## 731	0.72891012	0.981803607
## 732	1.21229199	1.597596072
## 733	0.44957346	0.646794199
## 734	1.25879544	1.520563596
## 735	0.48723408	0.588452309
## 736	0.35058886	0.792952359
## 737	0.26968098	0.712849879
## 738	0.30955516	1.001591509
## 739	1.75476089	1.569510133

## 740	0.54994547	0.327610866
## 741	0.88442567	1.325144109
## 742	0.46611613	0.609489730
## 743	0.79291634	0.605946166
## 744	0.83914230	0.820174047
## 745	0.72991481	0.192813036
## 746	0.44903282	0.494236381
## 747	0.42859561	0.770584289
## 748	0.61787818	0.928098393
## 749	0.52042290	0.603481121
## 750	0.74589018	0.367340212
## 751	0.55435265	0.268501766
## 752	0.50431500	0.620675917
## 753	0.79097534	0.495399276
## 754	0.18321367	0.579672202
## 755	1.00006873	1.221564582
## 756	0.74495065	0.441110467
## 757	0.51162570	0.591531925
## 758	0.79501970	0.647888378
## 759	0.53687848	0.443878842
## 760	1.17834666	1.174725190
## 761	0.67683088	0.960863113
## 762	0.34868781	0.355837975
## 763	1.45261636	1.159898013
## 764	0.83171269	1.180879464
## 765	0.49485338	0.820602936
## 766	0.60758371	0.256502403
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## 769	0.71888293	1.068308551
## 770	0.58428782	0.617252616
## 771	0.68957627	0.768845371
## 772	0.49935025	0.247993976
## 773	0.56491798	0.662583152
## 774	0.37308083	0.075258534
## 775	0.49478610	0.644496305
## 776	0.56871235	0.759413619
## 777	0.49529010	0.759351810
## 778	0.91019750	0.781915120
## 779	0.63936711	1.014082225
## 780	0.59354604	0.478910368
## 781	0.81835357	0.306968799
## 782	0.49620709	1.017629914
## 783	0.63599461	1.099462111
## 784	0.42802857	0.618537377
## 785	0.45214395	0.354297374
## 786	0.81047118	0.901169547
## 787	0.69846595	1.071069974
## 788	0.91683675	0.514226575
## 789	0.43407159	0.751791986
## 790	0.92212777	0.694519046
## 791	0.55764960	0.597009790
## 792	0.47164828	1.193186914
## 793	0.46790505	1.153147932

## 794	0.32567760	0.566532144
## 795	0.11437252	0.820319847
## 796	0.28498099	0.533090067
## 797	0.79009520	0.338303455
## 798	0.81570899	1.365805031
## 799	0.48639628	1.591848650
## 800	0.57344299	1.321018330
## 801	0.61402475	1.320612521
## 802	0.32385993	0.458806394
## 803	0.31878343	0.700945563
## 804	0.45329716	0.610077142
## 805	0.43304424	0.381188734
## 806	0.57182388	0.945379742
## 807	0.72680274	0.967148381
## 808	0.95232850	0.446383780
## 809	0.78195247	1.785604709
## 810	0.29490744	0.360260033
## 811	0.47961456	0.298596641
## 812	0.59241903	0.983249569
## 813	1.05095417	0.914144671
## 814	0.84024202	1.178623593
## 815	0.54240916	0.220640059
## 816	1.39492954	0.949071419
## 817	0.58837490	0.636069249
## 818	0.79453641	0.794031672
## 819	0.86241727	0.520884934
## 820	0.46420329	1.183031208
## 821	0.40249064	0.711047001
## 822	0.54723908	1.064846102
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## 824	0.63218620	0.701280271
## 825	0.66377849	0.388189528
## 826	0.41527353	0.860659785
## 827	0.42961583	0.520157229
## 828	0.86639727	0.838105082
## 829	0.39349597	0.291079870
## 830	0.60734244	0.759187359
## 831	0.48143289	0.281357772
## 832	0.55863683	0.344338093
## 833	0.55023657	1.365337714
## 834	0.32313127	0.927889217
## 835	0.36175676	0.512070721
## 836	0.66896877	1.473764399
## 837	0.91629548	1.252857293
## 838	0.52758922	0.255536185
## 839	0.94358079	0.724111425
## 840	0.66335705	0.606795668
## 841	0.51443453	0.448264220
## 842	0.73728631	0.656642191
## 843	0.04564265	0.319263032
## 844	0.59501970	1.808767740
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## 847	0.36912481	0.588242137

## 848	0.64519740	1.033756198
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## 850	1.09206725	0.440516316
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## 852	1.14003084	0.594331757
## 853	0.89422903	0.533404315
## 854	0.79605751	0.423435392
## 855	0.80589724	0.397849856
## 856	0.65869594	0.800178116
## 857	0.59711777	0.922565585
## 858	0.79786264	1.066906058
## 859	0.88961814	0.796428313
## 860	0.42798015	0.800924633
## 861	0.64549515	0.662485527
## 862	0.50299241	0.550019247
## 863	0.43228953	0.021694197
## 864	0.47836470	0.542286781
## 865	0.27377648	0.846322470
## 866	0.45024661	0.592907933
## 867	0.68545226	0.243705029
## 868	0.62679843	0.434808388
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## 870	0.55979411	0.108832597
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## 873	0.67226348	0.684014083
## 874	0.55085267	0.578684706
## 875	0.82303927	0.589928019
## 876	0.51271778	0.634733110
## 877	0.40766525	0.802414762
## 878	0.58255798	0.550579424
## 879	0.25338565	0.347823474
## 880	0.21871237	0.782906878
## 881	0.13927700	0.387276731
## 882	0.25319113	0.500477804
## 883	0.21587541	0.140105731
## 884	0.61086752	1.121463719
## 885	1.33308511	0.568322150
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## 887	0.42394103	0.426224968
## 888	0.73141227	0.346976502
## 889	0.45829737	0.593066830
## 890	0.63209163	1.142452441
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## 892	0.77550830	0.624183435
## 893	0.24632791	1.190223605
## 894	0.71799962	0.869564695
## 895	0.53553163	0.342921806
## 896	0.70205319	0.941849327
## 897	0.85940077	0.372309604
## 898	1.17584817	1.744301380
## 899	0.57774324	0.845287938
## 900	0.84838792	1.016955751
## 901	0.28060346	0.421594578

## 902	0.60562693	0.239892117
## 903	0.46941663	1.038463322
## 904	0.43361183	1.169271825
## 905	0.43556775	0.448453642
## 906	0.97760472	0.631922751
## 907	0.28775349	0.516269919
## 908	0.53748968	0.692268917
## 909	0.93731578	0.582181371
## 910	0.74978030	0.709141423
## 911	0.88254691	0.661415015
## 912	0.50333354	1.094775792
## 913	0.62585184	0.507514674
## 914	0.60477352	0.997491253
## 915	0.50433254	0.811450495
## 916	0.90306509	0.339013401
## 917	0.84688812	0.379072709
## 918	0.34302706	0.326350084
## 919	0.79088197	0.636468163
## 920	0.34591088	0.352199974
## 921	0.76306626	0.584862700
## 922	1.06222385	1.098056373
## 923	1.21772744	0.907908938
## 924	0.54425953	0.484955394
## 925	0.41810508	0.596014228
## 926	0.92061521	0.543858865
## 927	0.70805095	0.829947937
## 928	0.82566151	0.617451627
## 929	0.15676857	0.408823036
## 930	0.65950150	0.453856185
## 931	0.51318574	0.509783852
## 932	1.03617334	0.934718683
## 933	0.99922533	0.640170318
## 934	0.68010044	0.514957313
## 935	0.29752368	0.263696811
## 936	0.61689103	1.084229040
## 937	0.62583506	1.137522386
## 938	0.69031463	1.041720785
## 939	0.56707336	0.504296883
## 940	0.59994573	0.989629059
## 941	1.22851474	1.237257585
## 942	1.08921631	0.556968140
## 943	0.82856985	1.035267448
## 944	0.65678496	0.414889579
## 945	0.96560167	0.807883445
## 946	0.34204079	0.243156592
## 947	0.85044232	0.713928501
## 948	1.26954439	1.460558500
## 949	0.18696198	0.719835026
## 950	0.67196351	0.568414773
## 951	0.92475185	0.838889576
## 952	0.23639056	0.350166227
## 953	0.69892104	0.293417781
## 954	0.45244981	0.749416318
## 955	0.60581552	0.440244778

## 956	0.15124511	0.411246513
## 957	0.67220724	0.488974708
## 958	1.09525783	0.834656699
## 959	0.83594719	0.661092435
## 960	0.17439870	0.686767396
## 961	0.51456968	0.378396571
## 962	0.18635012	0.597784445
## 963	0.47845941	0.178527596
## 964	1.47322273	0.668703024
## 965	1.05408453	1.283949428
## 966	0.74157843	1.078585862
## 967	0.38119739	1.090823940
## 968	0.89770506	0.560990893
## 969	0.11052690	0.168898662
## 970	0.58851253	0.435188003
## 971	0.61495236	0.528271438
## 972	0.24519550	0.410550423
## 973	0.33337631	0.120117044
## 974	0.78034649	0.519683217
## 975	0.48001075	0.580990912
## 976	1.28705223	1.124178055
## 977	0.73201387	1.082610572
## 978	0.22657628	0.607118089
## 979	0.68713197	0.717372532
## 980	0.86829198	0.725586894
## 981	0.71815025	1.531307915
## 982	0.33434889	0.342325908
## 983	1.18089136	0.852197055
## 984	0.13095115	0.343854975
## 985	0.65745379	0.566231506
## 986	1.78201915	0.823907693
## 987	0.72380057	0.370480103
## 988	0.33566275	0.123847281
## 989	0.85422890	0.861473133
## 990	0.53529269	0.173007489
## 991	0.70836084	0.782411012
## 992	0.53245296	0.199155176
## 993	0.35410564	0.363735073
## 994	0.50709762	1.007212327
## 995	0.59033968	0.774579403
## 996	0.64737214	1.717809140
## 997	0.62700225	0.582743778
## 998	0.50773481	1.204920636
## 999	0.80339679	0.429615867
## 1000	1.16817956	1.533486028

**test.main**

