

NAME: ADIOTORE WILLIAM

DPARTMENT: PETROLEEUM ENGINEERING

MATRIC NO: 16/ENG 07/003

COURSE: ENG 281

ASSIGNMENT 5

1)

```
commandwindow
clear
clc
close all
syms t
PY=vpa(pi)
Q(t)=0.25*sin(25*PY*t)
V(t)=0.5*cos(0.2*PY*t)
tn=(0:0.0001:0.35)

I=diff(Q(t))
In=subs(I,tn)
P=I*V(t)
Pn=subs(P,tn)
figure(1)
plot(tn,Pn,tn,In)
ylabel('variable')
xlabel('ttime')
legend('power (P) ', 'current (A) ')
grid on
grid minor
```

commandwindow

PY =

3.1415926535897932384626433832795

Q(t) =

$\sin(78.539816339744830961566084581988*t)/4$

V(t) =

$\cos(0.6283185307179586476925286766559*t)/2$

tn =

Columns 1 through 12

0 0.0001 0.0002 0.0003 0.0004 0.0005 0.0006 0.0007 0.0008 0.0009 0.0010
0.0011

Columns 13 through 24

0.0012 0.0013 0.0014 0.0015 0.0016 0.0017 0.0018 0.0019 0.0020 0.0021 0.0022
0.0023

Columns 25 through 36

0.0024 0.0025 0.0026 0.0027 0.0028 0.0029 0.0030 0.0031 0.0032 0.0033 0.0034
0.0035

Columns 37 through 48

0.0036 0.0037 0.0038 0.0039 0.0040 0.0041 0.0042 0.0043 0.0044 0.0045 0.0046
0.0047

Columns 49 through 60

0.0048 0.0049 0.0050 0.0051 0.0052 0.0053 0.0054 0.0055 0.0056 0.0057 0.0058
0.0059

Columns 61 through 72

0.0060 0.0061 0.0062 0.0063 0.0064 0.0065 0.0066 0.0067 0.0068 0.0069 0.0070
0.0071

Columns 73 through 84

0.0072 0.0073 0.0074 0.0075 0.0076 0.0077 0.0078 0.0079 0.0080 0.0081 0.0082
0.0083

Columns 85 through 96

0.0084 0.0085 0.0086 0.0087 0.0088 0.0089 0.0090 0.0091 0.0092 0.0093 0.0094
0.0095

Columns 97 through 108

0.0096 0.0097 0.0098 0.0099 0.0100 0.0101 0.0102 0.0103 0.0104 0.0105 0.0106
0.0107

Columns 109 through 120

0.0108 0.0109 0.0110 0.0111 0.0112 0.0113 0.0114 0.0115 0.0116 0.0117 0.0118
0.0119

Columns 121 through 132

0.0120 0.0121 0.0122 0.0123 0.0124 0.0125 0.0126 0.0127 0.0128 0.0129 0.0130
0.0131

Columns 133 through 144

0.0132 0.0133 0.0134 0.0135 0.0136 0.0137 0.0138 0.0139 0.0140 0.0141 0.0142
0.0143

Columns 145 through 156

0.0144 0.0145 0.0146 0.0147 0.0148 0.0149 0.0150 0.0151 0.0152 0.0153 0.0154
0.0155

Columns 157 through 168

0.0156 0.0157 0.0158 0.0159 0.0160 0.0161 0.0162 0.0163 0.0164 0.0165 0.0166
0.0167

Columns 169 through 180

0.0168 0.0169 0.0170 0.0171 0.0172 0.0173 0.0174 0.0175 0.0176 0.0177 0.0178
0.0179

Columns 181 through 192

0.0180 0.0181 0.0182 0.0183 0.0184 0.0185 0.0186 0.0187 0.0188 0.0189 0.0190
0.0191

Columns 193 through 204

0.0192 0.0193 0.0194 0.0195 0.0196 0.0197 0.0198 0.0199 0.0200 0.0201 0.0202
0.0203

Columns 205 through 216

0.0204 0.0205 0.0206 0.0207 0.0208 0.0209 0.0210 0.0211 0.0212 0.0213 0.0214
0.0215

Columns 217 through 228

0.0216 0.0217 0.0218 0.0219 0.0220 0.0221 0.0222 0.0223 0.0224 0.0225 0.0226
0.0227

Columns 229 through 240

0.0228 0.0229 0.0230 0.0231 0.0232 0.0233 0.0234 0.0235 0.0236 0.0237 0.0238
0.0239

Columns 241 through 252

0.0240 0.0241 0.0242 0.0243 0.0244 0.0245 0.0246 0.0247 0.0248 0.0249 0.0250
0.0251

Columns 253 through 264

0.0252 0.0253 0.0254 0.0255 0.0256 0.0257 0.0258 0.0259 0.0260 0.0261 0.0262
0.0263

Columns 265 through 276

0.0264 0.0265 0.0266 0.0267 0.0268 0.0269 0.0270 0.0271 0.0272 0.0273 0.0274
0.0275

Columns 277 through 288

0.0276 0.0277 0.0278 0.0279 0.0280 0.0281 0.0282 0.0283 0.0284 0.0285 0.0286
0.0287

Columns 289 through 300

0.0288 0.0289 0.0290 0.0291 0.0292 0.0293 0.0294 0.0295 0.0296 0.0297 0.0298
0.0299

Columns 301 through 312

0.0300 0.0301 0.0302 0.0303 0.0304 0.0305 0.0306 0.0307 0.0308 0.0309 0.0310
0.0311

Columns 313 through 324

0.0312 0.0313 0.0314 0.0315 0.0316 0.0317 0.0318 0.0319 0.0320 0.0321 0.0322
0.0323

Columns 325 through 336

0.0324 0.0325 0.0326 0.0327 0.0328 0.0329 0.0330 0.0331 0.0332 0.0333 0.0334
0.0335

Columns 337 through 348

0.0336 0.0337 0.0338 0.0339 0.0340 0.0341 0.0342 0.0343 0.0344 0.0345 0.0346
0.0347

Columns 349 through 360

0.0348 0.0349 0.0350 0.0351 0.0352 0.0353 0.0354 0.0355 0.0356 0.0357 0.0358
0.0359

Columns 361 through 372

0.0360 0.0361 0.0362 0.0363 0.0364 0.0365 0.0366 0.0367 0.0368 0.0369 0.0370
0.0371

Columns 373 through 384

0.0372 0.0373 0.0374 0.0375 0.0376 0.0377 0.0378 0.0379 0.0380 0.0381 0.0382
0.0383

Columns 385 through 396

0.0384 0.0385 0.0386 0.0387 0.0388 0.0389 0.0390 0.0391 0.0392 0.0393 0.0394
0.0395

Columns 397 through 408

0.0396 0.0397 0.0398 0.0399 0.0400 0.0401 0.0402 0.0403 0.0404 0.0405 0.0406
0.0407

Columns 409 through 420

0.0408 0.0409 0.0410 0.0411 0.0412 0.0413 0.0414 0.0415 0.0416 0.0417 0.0418
0.0419

Columns 421 through 432

0.0420 0.0421 0.0422 0.0423 0.0424 0.0425 0.0426 0.0427 0.0428 0.0429 0.0430
0.0431

Columns 433 through 444

0.0432 0.0433 0.0434 0.0435 0.0436 0.0437 0.0438 0.0439 0.0440 0.0441 0.0442
0.0443

Columns 445 through 456

0.0444 0.0445 0.0446 0.0447 0.0448 0.0449 0.0450 0.0451 0.0452 0.0453 0.0454
0.0455

Columns 457 through 468

0.0456 0.0457 0.0458 0.0459 0.0460 0.0461 0.0462 0.0463 0.0464 0.0465 0.0466
0.0467

Columns 469 through 480

0.0468 0.0469 0.0470 0.0471 0.0472 0.0473 0.0474 0.0475 0.0476 0.0477 0.0478
0.0479

Columns 481 through 492

0.0480 0.0481 0.0482 0.0483 0.0484 0.0485 0.0486 0.0487 0.0488 0.0489 0.0490
0.0491

Columns 493 through 504

0.0492 0.0493 0.0494 0.0495 0.0496 0.0497 0.0498 0.0499 0.0500 0.0501 0.0502
0.0503

Columns 505 through 516

0.0504 0.0505 0.0506 0.0507 0.0508 0.0509 0.0510 0.0511 0.0512 0.0513 0.0514
0.0515

Columns 517 through 528

0.0516 0.0517 0.0518 0.0519 0.0520 0.0521 0.0522 0.0523 0.0524 0.0525 0.0526
0.0527

Columns 529 through 540

0.0528 0.0529 0.0530 0.0531 0.0532 0.0533 0.0534 0.0535 0.0536 0.0537 0.0538
0.0539

Columns 541 through 552

0.0540 0.0541 0.0542 0.0543 0.0544 0.0545 0.0546 0.0547 0.0548 0.0549 0.0550
0.0551

Columns 553 through 564

0.0552 0.0553 0.0554 0.0555 0.0556 0.0557 0.0558 0.0559 0.0560 0.0561 0.0562
0.0563

Columns 565 through 576

0.0564 0.0565 0.0566 0.0567 0.0568 0.0569 0.0570 0.0571 0.0572 0.0573 0.0574
0.0575

Columns 577 through 588

0.0576 0.0577 0.0578 0.0579 0.0580 0.0581 0.0582 0.0583 0.0584 0.0585 0.0586
0.0587

Columns 589 through 600

0.0588 0.0589 0.0590 0.0591 0.0592 0.0593 0.0594 0.0595 0.0596 0.0597 0.0598
0.0599

Columns 601 through 612

0.0600 0.0601 0.0602 0.0603 0.0604 0.0605 0.0606 0.0607 0.0608 0.0609 0.0610
0.0611

Columns 613 through 624

0.0612 0.0613 0.0614 0.0615 0.0616 0.0617 0.0618 0.0619 0.0620 0.0621 0.0622
0.0623

Columns 625 through 636

0.0624 0.0625 0.0626 0.0627 0.0628 0.0629 0.0630 0.0631 0.0632 0.0633 0.0634
0.0635

Columns 637 through 648

0.0636 0.0637 0.0638 0.0639 0.0640 0.0641 0.0642 0.0643 0.0644 0.0645 0.0646
0.0647

Columns 649 through 660

0.0648 0.0649 0.0650 0.0651 0.0652 0.0653 0.0654 0.0655 0.0656 0.0657 0.0658
0.0659

Columns 661 through 672

0.0660 0.0661 0.0662 0.0663 0.0664 0.0665 0.0666 0.0667 0.0668 0.0669 0.0670
0.0671

Columns 673 through 684

0.0672 0.0673 0.0674 0.0675 0.0676 0.0677 0.0678 0.0679 0.0680 0.0681 0.0682
0.0683

Columns 685 through 696

0.0684 0.0685 0.0686 0.0687 0.0688 0.0689 0.0690 0.0691 0.0692 0.0693 0.0694
0.0695

Columns 697 through 708

0.0696 0.0697 0.0698 0.0699 0.0700 0.0701 0.0702 0.0703 0.0704 0.0705 0.0706
0.0707

Columns 709 through 720

0.0708 0.0709 0.0710 0.0711 0.0712 0.0713 0.0714 0.0715 0.0716 0.0717 0.0718
0.0719

Columns 721 through 732

0.0720 0.0721 0.0722 0.0723 0.0724 0.0725 0.0726 0.0727 0.0728 0.0729 0.0730
0.0731

Columns 733 through 744

0.0732 0.0733 0.0734 0.0735 0.0736 0.0737 0.0738 0.0739 0.0740 0.0741 0.0742
0.0743

Columns 745 through 756

0.0744 0.0745 0.0746 0.0747 0.0748 0.0749 0.0750 0.0751 0.0752 0.0753 0.0754
0.0755

Columns 757 through 768

0.0756 0.0757 0.0758 0.0759 0.0760 0.0761 0.0762 0.0763 0.0764 0.0765 0.0766
0.0767

Columns 769 through 780

0.0768 0.0769 0.0770 0.0771 0.0772 0.0773 0.0774 0.0775 0.0776 0.0777 0.0778
0.0779

Columns 781 through 792

0.0780 0.0781 0.0782 0.0783 0.0784 0.0785 0.0786 0.0787 0.0788 0.0789 0.0790
0.0791

Columns 793 through 804

0.0792 0.0793 0.0794 0.0795 0.0796 0.0797 0.0798 0.0799 0.0800 0.0801 0.0802
0.0803

Columns 805 through 816

0.0804 0.0805 0.0806 0.0807 0.0808 0.0809 0.0810 0.0811 0.0812 0.0813 0.0814
0.0815

Columns 817 through 828

0.0816 0.0817 0.0818 0.0819 0.0820 0.0821 0.0822 0.0823 0.0824 0.0825 0.0826
0.0827

Columns 829 through 840

0.0828 0.0829 0.0830 0.0831 0.0832 0.0833 0.0834 0.0835 0.0836 0.0837 0.0838
0.0839

Columns 841 through 852

0.0840 0.0841 0.0842 0.0843 0.0844 0.0845 0.0846 0.0847 0.0848 0.0849 0.0850
0.0851

Columns 853 through 864

0.0852 0.0853 0.0854 0.0855 0.0856 0.0857 0.0858 0.0859 0.0860 0.0861 0.0862
0.0863

Columns 865 through 876

0.0864 0.0865 0.0866 0.0867 0.0868 0.0869 0.0870 0.0871 0.0872 0.0873 0.0874
0.0875

Columns 877 through 888

0.0876 0.0877 0.0878 0.0879 0.0880 0.0881 0.0882 0.0883 0.0884 0.0885 0.0886
0.0887

Columns 889 through 900

0.0888 0.0889 0.0890 0.0891 0.0892 0.0893 0.0894 0.0895 0.0896 0.0897 0.0898
0.0899

Columns 901 through 912

0.0900 0.0901 0.0902 0.0903 0.0904 0.0905 0.0906 0.0907 0.0908 0.0909 0.0910
0.0911

Columns 913 through 924

0.0912 0.0913 0.0914 0.0915 0.0916 0.0917 0.0918 0.0919 0.0920 0.0921 0.0922
0.0923

Columns 925 through 936

0.0924 0.0925 0.0926 0.0927 0.0928 0.0929 0.0930 0.0931 0.0932 0.0933 0.0934
0.0935

Columns 937 through 948

0.0936 0.0937 0.0938 0.0939 0.0940 0.0941 0.0942 0.0943 0.0944 0.0945 0.0946
0.0947

Columns 949 through 960

0.0948 0.0949 0.0950 0.0951 0.0952 0.0953 0.0954 0.0955 0.0956 0.0957 0.0958
0.0959

Columns 961 through 972

0.0960 0.0961 0.0962 0.0963 0.0964 0.0965 0.0966 0.0967 0.0968 0.0969 0.0970
0.0971

Columns 973 through 984

0.0972 0.0973 0.0974 0.0975 0.0976 0.0977 0.0978 0.0979 0.0980 0.0981 0.0982
0.0983

Columns 985 through 996

0.0984 0.0985 0.0986 0.0987 0.0988 0.0989 0.0990 0.0991 0.0992 0.0993 0.0994
0.0995

Columns 997 through 1008

0.0996 0.0997 0.0998 0.0999 0.1000 0.1001 0.1002 0.1003 0.1004 0.1005 0.1006
0.1007

Columns 1009 through 1020

0.1008 0.1009 0.1010 0.1011 0.1012 0.1013 0.1014 0.1015 0.1016 0.1017 0.1018
0.1019

Columns 1021 through 1032

0.1020 0.1021 0.1022 0.1023 0.1024 0.1025 0.1026 0.1027 0.1028 0.1029 0.1030
0.1031

Columns 1033 through 1044

0.1032 0.1033 0.1034 0.1035 0.1036 0.1037 0.1038 0.1039 0.1040 0.1041 0.1042
0.1043

Columns 1045 through 1056

0.1044 0.1045 0.1046 0.1047 0.1048 0.1049 0.1050 0.1051 0.1052 0.1053 0.1054
0.1055

Columns 1057 through 1068

0.1056 0.1057 0.1058 0.1059 0.1060 0.1061 0.1062 0.1063 0.1064 0.1065 0.1066
0.1067

Columns 1069 through 1080

0.1068 0.1069 0.1070 0.1071 0.1072 0.1073 0.1074 0.1075 0.1076 0.1077 0.1078
0.1079

Columns 1081 through 1092

0.1080 0.1081 0.1082 0.1083 0.1084 0.1085 0.1086 0.1087 0.1088 0.1089 0.1090
0.1091

Columns 1093 through 1104

0.1092 0.1093 0.1094 0.1095 0.1096 0.1097 0.1098 0.1099 0.1100 0.1101 0.1102
0.1103

Columns 1105 through 1116

0.1104 0.1105 0.1106 0.1107 0.1108 0.1109 0.1110 0.1111 0.1112 0.1113 0.1114
0.1115

Columns 1117 through 1128

0.1116 0.1117 0.1118 0.1119 0.1120 0.1121 0.1122 0.1123 0.1124 0.1125 0.1126
0.1127

Columns 1129 through 1140

0.1128 0.1129 0.1130 0.1131 0.1132 0.1133 0.1134 0.1135 0.1136 0.1137 0.1138
0.1139

Columns 1141 through 1152

0.1140 0.1141 0.1142 0.1143 0.1144 0.1145 0.1146 0.1147 0.1148 0.1149 0.1150
0.1151

Columns 1153 through 1164

0.1152 0.1153 0.1154 0.1155 0.1156 0.1157 0.1158 0.1159 0.1160 0.1161 0.1162
0.1163

Columns 1165 through 1176

0.1164 0.1165 0.1166 0.1167 0.1168 0.1169 0.1170 0.1171 0.1172 0.1173 0.1174
0.1175

Columns 1177 through 1188

0.1176 0.1177 0.1178 0.1179 0.1180 0.1181 0.1182 0.1183 0.1184 0.1185 0.1186
0.1187

Columns 1189 through 1200

0.1188 0.1189 0.1190 0.1191 0.1192 0.1193 0.1194 0.1195 0.1196 0.1197 0.1198
0.1199

Columns 1201 through 1212

0.1200 0.1201 0.1202 0.1203 0.1204 0.1205 0.1206 0.1207 0.1208 0.1209 0.1210
0.1211

Columns 1213 through 1224

0.1212 0.1213 0.1214 0.1215 0.1216 0.1217 0.1218 0.1219 0.1220 0.1221 0.1222
0.1223

Columns 1225 through 1236

0.1224 0.1225 0.1226 0.1227 0.1228 0.1229 0.1230 0.1231 0.1232 0.1233 0.1234
0.1235

Columns 1237 through 1248

0.1236 0.1237 0.1238 0.1239 0.1240 0.1241 0.1242 0.1243 0.1244 0.1245 0.1246
0.1247

Columns 1249 through 1260

0.1248 0.1249 0.1250 0.1251 0.1252 0.1253 0.1254 0.1255 0.1256 0.1257 0.1258
0.1259

Columns 1261 through 1272

0.1260 0.1261 0.1262 0.1263 0.1264 0.1265 0.1266 0.1267 0.1268 0.1269 0.1270
0.1271

Columns 1273 through 1284

0.1272 0.1273 0.1274 0.1275 0.1276 0.1277 0.1278 0.1279 0.1280 0.1281 0.1282
0.1283

Columns 1285 through 1296

0.1284 0.1285 0.1286 0.1287 0.1288 0.1289 0.1290 0.1291 0.1292 0.1293 0.1294
0.1295

Columns 1297 through 1308

0.1296 0.1297 0.1298 0.1299 0.1300 0.1301 0.1302 0.1303 0.1304 0.1305 0.1306
0.1307

Columns 1309 through 1320

0.1308 0.1309 0.1310 0.1311 0.1312 0.1313 0.1314 0.1315 0.1316 0.1317 0.1318
0.1319

Columns 1321 through 1332

0.1320 0.1321 0.1322 0.1323 0.1324 0.1325 0.1326 0.1327 0.1328 0.1329 0.1330
0.1331

Columns 1333 through 1344

0.1332 0.1333 0.1334 0.1335 0.1336 0.1337 0.1338 0.1339 0.1340 0.1341 0.1342
0.1343

Columns 1345 through 1356

0.1344 0.1345 0.1346 0.1347 0.1348 0.1349 0.1350 0.1351 0.1352 0.1353 0.1354
0.1355

Columns 1357 through 1368

0.1356 0.1357 0.1358 0.1359 0.1360 0.1361 0.1362 0.1363 0.1364 0.1365 0.1366
0.1367

Columns 1369 through 1380

0.1368 0.1369 0.1370 0.1371 0.1372 0.1373 0.1374 0.1375 0.1376 0.1377 0.1378
0.1379

Columns 1381 through 1392

0.1380 0.1381 0.1382 0.1383 0.1384 0.1385 0.1386 0.1387 0.1388 0.1389 0.1390
0.1391

Columns 1393 through 1404

0.1392 0.1393 0.1394 0.1395 0.1396 0.1397 0.1398 0.1399 0.1400 0.1401 0.1402
0.1403

Columns 1405 through 1416

0.1404 0.1405 0.1406 0.1407 0.1408 0.1409 0.1410 0.1411 0.1412 0.1413 0.1414
0.1415

Columns 1417 through 1428

0.1416 0.1417 0.1418 0.1419 0.1420 0.1421 0.1422 0.1423 0.1424 0.1425 0.1426
0.1427

Columns 1429 through 1440

0.1428 0.1429 0.1430 0.1431 0.1432 0.1433 0.1434 0.1435 0.1436 0.1437 0.1438
0.1439

Columns 1441 through 1452

0.1440 0.1441 0.1442 0.1443 0.1444 0.1445 0.1446 0.1447 0.1448 0.1449 0.1450
0.1451

Columns 1453 through 1464

0.1452 0.1453 0.1454 0.1455 0.1456 0.1457 0.1458 0.1459 0.1460 0.1461 0.1462
0.1463

Columns 1465 through 1476

0.1464 0.1465 0.1466 0.1467 0.1468 0.1469 0.1470 0.1471 0.1472 0.1473 0.1474
0.1475

Columns 1477 through 1488

0.1476 0.1477 0.1478 0.1479 0.1480 0.1481 0.1482 0.1483 0.1484 0.1485 0.1486
0.1487

Columns 1489 through 1500

0.1488 0.1489 0.1490 0.1491 0.1492 0.1493 0.1494 0.1495 0.1496 0.1497 0.1498
0.1499

Columns 1501 through 1512

0.1500 0.1501 0.1502 0.1503 0.1504 0.1505 0.1506 0.1507 0.1508 0.1509 0.1510
0.1511

Columns 1513 through 1524

0.1512 0.1513 0.1514 0.1515 0.1516 0.1517 0.1518 0.1519 0.1520 0.1521 0.1522
0.1523

Columns 1525 through 1536

0.1524 0.1525 0.1526 0.1527 0.1528 0.1529 0.1530 0.1531 0.1532 0.1533 0.1534
0.1535

Columns 1537 through 1548

0.1536 0.1537 0.1538 0.1539 0.1540 0.1541 0.1542 0.1543 0.1544 0.1545 0.1546
0.1547

Columns 1549 through 1560

0.1548 0.1549 0.1550 0.1551 0.1552 0.1553 0.1554 0.1555 0.1556 0.1557 0.1558
0.1559

Columns 1561 through 1572

0.1560 0.1561 0.1562 0.1563 0.1564 0.1565 0.1566 0.1567 0.1568 0.1569 0.1570
0.1571

Columns 1573 through 1584

0.1572 0.1573 0.1574 0.1575 0.1576 0.1577 0.1578 0.1579 0.1580 0.1581 0.1582
0.1583

Columns 1585 through 1596

0.1584 0.1585 0.1586 0.1587 0.1588 0.1589 0.1590 0.1591 0.1592 0.1593 0.1594
0.1595

Columns 1597 through 1608

0.1596 0.1597 0.1598 0.1599 0.1600 0.1601 0.1602 0.1603 0.1604 0.1605 0.1606
0.1607

Columns 1609 through 1620

0.1608 0.1609 0.1610 0.1611 0.1612 0.1613 0.1614 0.1615 0.1616 0.1617 0.1618
0.1619

Columns 1621 through 1632

0.1620 0.1621 0.1622 0.1623 0.1624 0.1625 0.1626 0.1627 0.1628 0.1629 0.1630
0.1631

Columns 1633 through 1644

0.1632 0.1633 0.1634 0.1635 0.1636 0.1637 0.1638 0.1639 0.1640 0.1641 0.1642
0.1643

Columns 1645 through 1656

0.1644 0.1645 0.1646 0.1647 0.1648 0.1649 0.1650 0.1651 0.1652 0.1653 0.1654
0.1655

Columns 1657 through 1668

0.1656 0.1657 0.1658 0.1659 0.1660 0.1661 0.1662 0.1663 0.1664 0.1665 0.1666
0.1667

Columns 1669 through 1680

0.1668 0.1669 0.1670 0.1671 0.1672 0.1673 0.1674 0.1675 0.1676 0.1677 0.1678
0.1679

Columns 1681 through 1692

0.1680 0.1681 0.1682 0.1683 0.1684 0.1685 0.1686 0.1687 0.1688 0.1689 0.1690
0.1691

Columns 1693 through 1704

0.1692 0.1693 0.1694 0.1695 0.1696 0.1697 0.1698 0.1699 0.1700 0.1701 0.1702
0.1703

Columns 1705 through 1716

0.1704 0.1705 0.1706 0.1707 0.1708 0.1709 0.1710 0.1711 0.1712 0.1713 0.1714
0.1715

Columns 1717 through 1728

0.1716 0.1717 0.1718 0.1719 0.1720 0.1721 0.1722 0.1723 0.1724 0.1725 0.1726
0.1727

Columns 1729 through 1740

0.1728 0.1729 0.1730 0.1731 0.1732 0.1733 0.1734 0.1735 0.1736 0.1737 0.1738
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Columns 1741 through 1752

0.1740 0.1741 0.1742 0.1743 0.1744 0.1745 0.1746 0.1747 0.1748 0.1749 0.1750
0.1751

Columns 1753 through 1764

0.1752 0.1753 0.1754 0.1755 0.1756 0.1757 0.1758 0.1759 0.1760 0.1761 0.1762
0.1763

Columns 1765 through 1776

0.1764 0.1765 0.1766 0.1767 0.1768 0.1769 0.1770 0.1771 0.1772 0.1773 0.1774
0.1775

Columns 1777 through 1788

0.1776 0.1777 0.1778 0.1779 0.1780 0.1781 0.1782 0.1783 0.1784 0.1785 0.1786
0.1787

Columns 1789 through 1800

0.1788 0.1789 0.1790 0.1791 0.1792 0.1793 0.1794 0.1795 0.1796 0.1797 0.1798
0.1799

Columns 1801 through 1812

0.1800 0.1801 0.1802 0.1803 0.1804 0.1805 0.1806 0.1807 0.1808 0.1809 0.1810
0.1811

Columns 1813 through 1824

0.1812 0.1813 0.1814 0.1815 0.1816 0.1817 0.1818 0.1819 0.1820 0.1821 0.1822
0.1823

Columns 1825 through 1836

0.1824 0.1825 0.1826 0.1827 0.1828 0.1829 0.1830 0.1831 0.1832 0.1833 0.1834
0.1835

Columns 1837 through 1848

0.1836 0.1837 0.1838 0.1839 0.1840 0.1841 0.1842 0.1843 0.1844 0.1845 0.1846
0.1847

Columns 1849 through 1860

0.1848 0.1849 0.1850 0.1851 0.1852 0.1853 0.1854 0.1855 0.1856 0.1857 0.1858
0.1859

Columns 1861 through 1872

0.1860 0.1861 0.1862 0.1863 0.1864 0.1865 0.1866 0.1867 0.1868 0.1869 0.1870
0.1871

Columns 1873 through 1884

0.1872 0.1873 0.1874 0.1875 0.1876 0.1877 0.1878 0.1879 0.1880 0.1881 0.1882
0.1883

Columns 1885 through 1896

0.1884 0.1885 0.1886 0.1887 0.1888 0.1889 0.1890 0.1891 0.1892 0.1893 0.1894
0.1895

Columns 1897 through 1908

0.1896 0.1897 0.1898 0.1899 0.1900 0.1901 0.1902 0.1903 0.1904 0.1905 0.1906
0.1907

Columns 1909 through 1920

0.1908 0.1909 0.1910 0.1911 0.1912 0.1913 0.1914 0.1915 0.1916 0.1917 0.1918
0.1919

Columns 1921 through 1932

0.1920 0.1921 0.1922 0.1923 0.1924 0.1925 0.1926 0.1927 0.1928 0.1929 0.1930
0.1931

Columns 1933 through 1944

0.1932 0.1933 0.1934 0.1935 0.1936 0.1937 0.1938 0.1939 0.1940 0.1941 0.1942
0.1943

Columns 1945 through 1956

0.1944 0.1945 0.1946 0.1947 0.1948 0.1949 0.1950 0.1951 0.1952 0.1953 0.1954
0.1955

Columns 1957 through 1968

0.1956 0.1957 0.1958 0.1959 0.1960 0.1961 0.1962 0.1963 0.1964 0.1965 0.1966
0.1967

Columns 1969 through 1980

0.1968 0.1969 0.1970 0.1971 0.1972 0.1973 0.1974 0.1975 0.1976 0.1977 0.1978
0.1979

Columns 1981 through 1992

0.1980 0.1981 0.1982 0.1983 0.1984 0.1985 0.1986 0.1987 0.1988 0.1989 0.1990
0.1991

Columns 1993 through 2004

0.1992 0.1993 0.1994 0.1995 0.1996 0.1997 0.1998 0.1999 0.2000 0.2001 0.2002
0.2003

Columns 2005 through 2016

0.2004 0.2005 0.2006 0.2007 0.2008 0.2009 0.2010 0.2011 0.2012 0.2013 0.2014
0.2015

Columns 2017 through 2028

0.2016 0.2017 0.2018 0.2019 0.2020 0.2021 0.2022 0.2023 0.2024 0.2025 0.2026
0.2027

Columns 2029 through 2040

0.2028 0.2029 0.2030 0.2031 0.2032 0.2033 0.2034 0.2035 0.2036 0.2037 0.2038
0.2039

Columns 2041 through 2052

0.2040 0.2041 0.2042 0.2043 0.2044 0.2045 0.2046 0.2047 0.2048 0.2049 0.2050
0.2051

Columns 2053 through 2064

0.2052 0.2053 0.2054 0.2055 0.2056 0.2057 0.2058 0.2059 0.2060 0.2061 0.2062
0.2063

Columns 2065 through 2076

0.2064 0.2065 0.2066 0.2067 0.2068 0.2069 0.2070 0.2071 0.2072 0.2073 0.2074
0.2075

Columns 2077 through 2088

0.2076 0.2077 0.2078 0.2079 0.2080 0.2081 0.2082 0.2083 0.2084 0.2085 0.2086
0.2087

Columns 2089 through 2100

0.2088 0.2089 0.2090 0.2091 0.2092 0.2093 0.2094 0.2095 0.2096 0.2097 0.2098
0.2099

Columns 2101 through 2112

0.2100 0.2101 0.2102 0.2103 0.2104 0.2105 0.2106 0.2107 0.2108 0.2109 0.2110
0.2111

Columns 2113 through 2124

0.2112 0.2113 0.2114 0.2115 0.2116 0.2117 0.2118 0.2119 0.2120 0.2121 0.2122
0.2123

Columns 2125 through 2136

0.2124 0.2125 0.2126 0.2127 0.2128 0.2129 0.2130 0.2131 0.2132 0.2133 0.2134
0.2135

Columns 2137 through 2148

0.2136 0.2137 0.2138 0.2139 0.2140 0.2141 0.2142 0.2143 0.2144 0.2145 0.2146
0.2147

Columns 2149 through 2160

0.2148 0.2149 0.2150 0.2151 0.2152 0.2153 0.2154 0.2155 0.2156 0.2157 0.2158
0.2159

Columns 2161 through 2172

0.2160 0.2161 0.2162 0.2163 0.2164 0.2165 0.2166 0.2167 0.2168 0.2169 0.2170
0.2171

Columns 2173 through 2184

0.2172 0.2173 0.2174 0.2175 0.2176 0.2177 0.2178 0.2179 0.2180 0.2181 0.2182
0.2183

Columns 2185 through 2196

0.2184 0.2185 0.2186 0.2187 0.2188 0.2189 0.2190 0.2191 0.2192 0.2193 0.2194
0.2195

Columns 2197 through 2208

0.2196 0.2197 0.2198 0.2199 0.2200 0.2201 0.2202 0.2203 0.2204 0.2205 0.2206
0.2207

Columns 2209 through 2220

0.2208 0.2209 0.2210 0.2211 0.2212 0.2213 0.2214 0.2215 0.2216 0.2217 0.2218
0.2219

Columns 2221 through 2232

0.2220 0.2221 0.2222 0.2223 0.2224 0.2225 0.2226 0.2227 0.2228 0.2229 0.2230
0.2231

Columns 2233 through 2244

0.2232 0.2233 0.2234 0.2235 0.2236 0.2237 0.2238 0.2239 0.2240 0.2241 0.2242
0.2243

Columns 2245 through 2256

0.2244 0.2245 0.2246 0.2247 0.2248 0.2249 0.2250 0.2251 0.2252 0.2253 0.2254
0.2255

Columns 2257 through 2268

0.2256 0.2257 0.2258 0.2259 0.2260 0.2261 0.2262 0.2263 0.2264 0.2265 0.2266
0.2267

Columns 2269 through 2280

0.2268 0.2269 0.2270 0.2271 0.2272 0.2273 0.2274 0.2275 0.2276 0.2277 0.2278
0.2279

Columns 2281 through 2292

0.2280 0.2281 0.2282 0.2283 0.2284 0.2285 0.2286 0.2287 0.2288 0.2289 0.2290
0.2291

Columns 2293 through 2304

0.2292 0.2293 0.2294 0.2295 0.2296 0.2297 0.2298 0.2299 0.2300 0.2301 0.2302
0.2303

Columns 2305 through 2316

0.2304 0.2305 0.2306 0.2307 0.2308 0.2309 0.2310 0.2311 0.2312 0.2313 0.2314
0.2315

Columns 2317 through 2328

0.2316 0.2317 0.2318 0.2319 0.2320 0.2321 0.2322 0.2323 0.2324 0.2325 0.2326
0.2327

Columns 2329 through 2340

0.2328 0.2329 0.2330 0.2331 0.2332 0.2333 0.2334 0.2335 0.2336 0.2337 0.2338
0.2339

Columns 2341 through 2352

0.2340 0.2341 0.2342 0.2343 0.2344 0.2345 0.2346 0.2347 0.2348 0.2349 0.2350
0.2351

Columns 2353 through 2364

0.2352 0.2353 0.2354 0.2355 0.2356 0.2357 0.2358 0.2359 0.2360 0.2361 0.2362
0.2363

Columns 2365 through 2376

0.2364 0.2365 0.2366 0.2367 0.2368 0.2369 0.2370 0.2371 0.2372 0.2373 0.2374
0.2375

Columns 2377 through 2388

0.2376 0.2377 0.2378 0.2379 0.2380 0.2381 0.2382 0.2383 0.2384 0.2385 0.2386
0.2387

Columns 2389 through 2400

0.2388 0.2389 0.2390 0.2391 0.2392 0.2393 0.2394 0.2395 0.2396 0.2397 0.2398
0.2399

Columns 2401 through 2412

0.2400 0.2401 0.2402 0.2403 0.2404 0.2405 0.2406 0.2407 0.2408 0.2409 0.2410
0.2411

Columns 2413 through 2424

0.2412 0.2413 0.2414 0.2415 0.2416 0.2417 0.2418 0.2419 0.2420 0.2421 0.2422
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Columns 2425 through 2436

0.2424 0.2425 0.2426 0.2427 0.2428 0.2429 0.2430 0.2431 0.2432 0.2433 0.2434
0.2435

Columns 2437 through 2448

0.2436 0.2437 0.2438 0.2439 0.2440 0.2441 0.2442 0.2443 0.2444 0.2445 0.2446
0.2447

Columns 2449 through 2460

0.2448 0.2449 0.2450 0.2451 0.2452 0.2453 0.2454 0.2455 0.2456 0.2457 0.2458
0.2459

Columns 2461 through 2472

0.2460 0.2461 0.2462 0.2463 0.2464 0.2465 0.2466 0.2467 0.2468 0.2469 0.2470
0.2471

Columns 2473 through 2484

0.2472 0.2473 0.2474 0.2475 0.2476 0.2477 0.2478 0.2479 0.2480 0.2481 0.2482
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Columns 2485 through 2496

0.2484 0.2485 0.2486 0.2487 0.2488 0.2489 0.2490 0.2491 0.2492 0.2493 0.2494
0.2495

Columns 2497 through 2508

0.2496 0.2497 0.2498 0.2499 0.2500 0.2501 0.2502 0.2503 0.2504 0.2505 0.2506
0.2507

Columns 2509 through 2520

0.2508 0.2509 0.2510 0.2511 0.2512 0.2513 0.2514 0.2515 0.2516 0.2517 0.2518
0.2519

Columns 2521 through 2532

0.2520 0.2521 0.2522 0.2523 0.2524 0.2525 0.2526 0.2527 0.2528 0.2529 0.2530
0.2531

Columns 2533 through 2544

0.2532 0.2533 0.2534 0.2535 0.2536 0.2537 0.2538 0.2539 0.2540 0.2541 0.2542
0.2543

Columns 2545 through 2556

0.2544 0.2545 0.2546 0.2547 0.2548 0.2549 0.2550 0.2551 0.2552 0.2553 0.2554
0.2555

Columns 2557 through 2568

0.2556 0.2557 0.2558 0.2559 0.2560 0.2561 0.2562 0.2563 0.2564 0.2565 0.2566
0.2567

Columns 2569 through 2580

0.2568 0.2569 0.2570 0.2571 0.2572 0.2573 0.2574 0.2575 0.2576 0.2577 0.2578
0.2579

Columns 2581 through 2592

0.2580 0.2581 0.2582 0.2583 0.2584 0.2585 0.2586 0.2587 0.2588 0.2589 0.2590
0.2591

Columns 2593 through 2604

0.2592 0.2593 0.2594 0.2595 0.2596 0.2597 0.2598 0.2599 0.2600 0.2601 0.2602
0.2603

Columns 2605 through 2616

0.2604 0.2605 0.2606 0.2607 0.2608 0.2609 0.2610 0.2611 0.2612 0.2613 0.2614
0.2615

Columns 2617 through 2628

0.2616 0.2617 0.2618 0.2619 0.2620 0.2621 0.2622 0.2623 0.2624 0.2625 0.2626
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Columns 2629 through 2640

0.2628 0.2629 0.2630 0.2631 0.2632 0.2633 0.2634 0.2635 0.2636 0.2637 0.2638
0.2639

Columns 2641 through 2652

0.2640 0.2641 0.2642 0.2643 0.2644 0.2645 0.2646 0.2647 0.2648 0.2649 0.2650
0.2651

Columns 2653 through 2664

0.2652 0.2653 0.2654 0.2655 0.2656 0.2657 0.2658 0.2659 0.2660 0.2661 0.2662
0.2663

Columns 2665 through 2676

0.2664 0.2665 0.2666 0.2667 0.2668 0.2669 0.2670 0.2671 0.2672 0.2673 0.2674
0.2675

Columns 2677 through 2688

0.2676 0.2677 0.2678 0.2679 0.2680 0.2681 0.2682 0.2683 0.2684 0.2685 0.2686
0.2687

Columns 2689 through 2700

0.2688 0.2689 0.2690 0.2691 0.2692 0.2693 0.2694 0.2695 0.2696 0.2697 0.2698
0.2699

Columns 2701 through 2712

0.2700 0.2701 0.2702 0.2703 0.2704 0.2705 0.2706 0.2707 0.2708 0.2709 0.2710
0.2711

Columns 2713 through 2724

0.2712 0.2713 0.2714 0.2715 0.2716 0.2717 0.2718 0.2719 0.2720 0.2721 0.2722
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Columns 2725 through 2736

0.2724 0.2725 0.2726 0.2727 0.2728 0.2729 0.2730 0.2731 0.2732 0.2733 0.2734
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Columns 2737 through 2748

0.2736 0.2737 0.2738 0.2739 0.2740 0.2741 0.2742 0.2743 0.2744 0.2745 0.2746
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Columns 2749 through 2760

0.2748 0.2749 0.2750 0.2751 0.2752 0.2753 0.2754 0.2755 0.2756 0.2757 0.2758
0.2759

Columns 2761 through 2772

0.2760 0.2761 0.2762 0.2763 0.2764 0.2765 0.2766 0.2767 0.2768 0.2769 0.2770
0.2771

Columns 2773 through 2784

0.2772 0.2773 0.2774 0.2775 0.2776 0.2777 0.2778 0.2779 0.2780 0.2781 0.2782
0.2783

Columns 2785 through 2796

0.2784 0.2785 0.2786 0.2787 0.2788 0.2789 0.2790 0.2791 0.2792 0.2793 0.2794
0.2795

Columns 2797 through 2808

0.2796 0.2797 0.2798 0.2799 0.2800 0.2801 0.2802 0.2803 0.2804 0.2805 0.2806
0.2807

Columns 2809 through 2820

0.2808 0.2809 0.2810 0.2811 0.2812 0.2813 0.2814 0.2815 0.2816 0.2817 0.2818
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Columns 2821 through 2832

0.2820 0.2821 0.2822 0.2823 0.2824 0.2825 0.2826 0.2827 0.2828 0.2829 0.2830
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Columns 2833 through 2844

0.2832 0.2833 0.2834 0.2835 0.2836 0.2837 0.2838 0.2839 0.2840 0.2841 0.2842
0.2843

Columns 2845 through 2856

0.2844 0.2845 0.2846 0.2847 0.2848 0.2849 0.2850 0.2851 0.2852 0.2853 0.2854
0.2855

Columns 2857 through 2868

0.2856 0.2857 0.2858 0.2859 0.2860 0.2861 0.2862 0.2863 0.2864 0.2865 0.2866
0.2867

Columns 2869 through 2880

0.2868 0.2869 0.2870 0.2871 0.2872 0.2873 0.2874 0.2875 0.2876 0.2877 0.2878
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Columns 2881 through 2892

0.2880 0.2881 0.2882 0.2883 0.2884 0.2885 0.2886 0.2887 0.2888 0.2889 0.2890
0.2891

Columns 2893 through 2904

0.2892 0.2893 0.2894 0.2895 0.2896 0.2897 0.2898 0.2899 0.2900 0.2901 0.2902
0.2903

Columns 2905 through 2916

0.2904 0.2905 0.2906 0.2907 0.2908 0.2909 0.2910 0.2911 0.2912 0.2913 0.2914
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Columns 2917 through 2928

0.2916 0.2917 0.2918 0.2919 0.2920 0.2921 0.2922 0.2923 0.2924 0.2925 0.2926
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Columns 2929 through 2940

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0.2939

Columns 2941 through 2952

0.2940 0.2941 0.2942 0.2943 0.2944 0.2945 0.2946 0.2947 0.2948 0.2949 0.2950
0.2951

Columns 2953 through 2964

0.2952 0.2953 0.2954 0.2955 0.2956 0.2957 0.2958 0.2959 0.2960 0.2961 0.2962
0.2963

Columns 2965 through 2976

0.2964 0.2965 0.2966 0.2967 0.2968 0.2969 0.2970 0.2971 0.2972 0.2973 0.2974
0.2975

Columns 2977 through 2988

0.2976 0.2977 0.2978 0.2979 0.2980 0.2981 0.2982 0.2983 0.2984 0.2985 0.2986
0.2987

Columns 2989 through 3000

0.2988 0.2989 0.2990 0.2991 0.2992 0.2993 0.2994 0.2995 0.2996 0.2997 0.2998
0.2999

Columns 3001 through 3012

0.3000 0.3001 0.3002 0.3003 0.3004 0.3005 0.3006 0.3007 0.3008 0.3009 0.3010
0.3011

Columns 3013 through 3024

0.3012 0.3013 0.3014 0.3015 0.3016 0.3017 0.3018 0.3019 0.3020 0.3021 0.3022
0.3023

Columns 3025 through 3036

0.3024 0.3025 0.3026 0.3027 0.3028 0.3029 0.3030 0.3031 0.3032 0.3033 0.3034
0.3035

Columns 3037 through 3048

0.3036 0.3037 0.3038 0.3039 0.3040 0.3041 0.3042 0.3043 0.3044 0.3045 0.3046
0.3047

Columns 3049 through 3060

0.3048 0.3049 0.3050 0.3051 0.3052 0.3053 0.3054 0.3055 0.3056 0.3057 0.3058
0.3059

Columns 3061 through 3072

0.3060 0.3061 0.3062 0.3063 0.3064 0.3065 0.3066 0.3067 0.3068 0.3069 0.3070
0.3071

Columns 3073 through 3084

0.3072 0.3073 0.3074 0.3075 0.3076 0.3077 0.3078 0.3079 0.3080 0.3081 0.3082
0.3083

Columns 3085 through 3096

0.3084 0.3085 0.3086 0.3087 0.3088 0.3089 0.3090 0.3091 0.3092 0.3093 0.3094
0.3095

Columns 3097 through 3108

0.3096 0.3097 0.3098 0.3099 0.3100 0.3101 0.3102 0.3103 0.3104 0.3105 0.3106
0.3107

Columns 3109 through 3120

0.3108 0.3109 0.3110 0.3111 0.3112 0.3113 0.3114 0.3115 0.3116 0.3117 0.3118
0.3119

Columns 3121 through 3132

0.3120 0.3121 0.3122 0.3123 0.3124 0.3125 0.3126 0.3127 0.3128 0.3129 0.3130
0.3131

Columns 3133 through 3144

0.3132 0.3133 0.3134 0.3135 0.3136 0.3137 0.3138 0.3139 0.3140 0.3141 0.3142
0.3143

Columns 3145 through 3156

0.3144 0.3145 0.3146 0.3147 0.3148 0.3149 0.3150 0.3151 0.3152 0.3153 0.3154
0.3155

Columns 3157 through 3168

0.3156 0.3157 0.3158 0.3159 0.3160 0.3161 0.3162 0.3163 0.3164 0.3165 0.3166
0.3167

Columns 3169 through 3180

0.3168 0.3169 0.3170 0.3171 0.3172 0.3173 0.3174 0.3175 0.3176 0.3177 0.3178
0.3179

Columns 3181 through 3192

0.3180 0.3181 0.3182 0.3183 0.3184 0.3185 0.3186 0.3187 0.3188 0.3189 0.3190
0.3191

Columns 3193 through 3204

0.3192 0.3193 0.3194 0.3195 0.3196 0.3197 0.3198 0.3199 0.3200 0.3201 0.3202
0.3203

Columns 3205 through 3216

0.3204 0.3205 0.3206 0.3207 0.3208 0.3209 0.3210 0.3211 0.3212 0.3213 0.3214
0.3215

Columns 3217 through 3228

0.3216 0.3217 0.3218 0.3219 0.3220 0.3221 0.3222 0.3223 0.3224 0.3225 0.3226
0.3227

Columns 3229 through 3240

0.3228 0.3229 0.3230 0.3231 0.3232 0.3233 0.3234 0.3235 0.3236 0.3237 0.3238
0.3239

Columns 3241 through 3252

0.3240 0.3241 0.3242 0.3243 0.3244 0.3245 0.3246 0.3247 0.3248 0.3249 0.3250
0.3251

Columns 3253 through 3264

0.3252 0.3253 0.3254 0.3255 0.3256 0.3257 0.3258 0.3259 0.3260 0.3261 0.3262
0.3263

Columns 3265 through 3276

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Columns 3277 through 3288

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Columns 3289 through 3300

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Columns 3301 through 3312

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Columns 3313 through 3324

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Columns 3325 through 3336

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Columns 3337 through 3348

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Columns 3349 through 3360

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Columns 3361 through 3372

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Columns 3373 through 3384

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Columns 3385 through 3396

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Columns 3397 through 3408

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Columns 3421 through 3432

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Columns 3433 through 3444

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Columns 3445 through 3456

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Columns 3457 through 3468

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Columns 3469 through 3480

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Columns 3481 through 3492

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