

Test dataArray.R function

Test functions in dataArray.R file

```
#Load Libraries and functions
setwd("C:/Users/Christina/Desktop/mse-r/MSE-R")
source("mse.R")

#Import file
filename<-"import/precomp_testdata.dat"
x<-import(filename)
g(header,noM,noU,noD,noAttr,distanceMatrices,matchMatrix,mate)%=%x

#Create inequality members
ineqmembers<-Cineqmembers(mate)
#Create Data Array
dataArray<-CdataArray(distanceMatrices,ineqmembers)
print(dataArray)
```

```
## [[1]]
##           .1           .2           .3           .4
##  6.846391 -17.362465 -28.466257  27.397567  -6.213640
##
## [[2]]
##           .1           .2           .3           .4
## -3.899989 10.602598 -1.747366  9.530355  -7.418089
##
## [[3]]
##           .1           .2           .3           .4
## -11.426525  1.119005 -20.491635  22.467441  -5.094940
##
## [[4]]
##           .1           .2           .3           .4
## -11.93678  24.44412 -19.68614  12.65272  37.43511
##
## [[5]]
##           .1           .2           .3           .4
## -6.805142  2.157726 -14.732876  7.603381 -14.857580
##
## [[6]]
##           .1           .2           .3           .4
## -7.244756 27.312936  4.840195 28.987544 16.293786
##
## [[7]]
##           .1           .2           .3           .4
## 28.5878142 -15.0395738  0.3590352 20.7569265 -12.7584160
##
## [[8]]
##           .1           .2           .3           .4
## 17.321485  9.432977 -16.494329 27.175000 15.109135
##
```

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## [[9]]
##          .1          .2          .3          .4
## -18.72809046 -10.80328106 -17.18013257 -13.43205365 -0.07090325
##
## [[10]]
##          .1          .2          .3          .4
##   5.799844 -11.107398 -4.670802 -5.472148 12.961362
##
## [[11]]
##          .1          .2          .3          .4
## -25.72518 -37.68526 -3.11308 1.18108 -34.97051
##
## [[12]]
##          .1          .2          .3          .4
## 10.7700848 -7.6701382 -1.4104778 0.3953414 -6.9544673
##
## [[13]]
##          .1          .2          .3          .4
##   2.743694 -20.752516 7.943831 -18.313524 -5.165462
##
## [[14]]
##          .1          .2          .3          .4
## -1.872335 5.528472 17.456296 -1.800498 -28.064075
##
## [[15]]
##          .1          .2          .3          .4
## 31.583090 -15.029491 -2.414898 26.237011 1.320912
##
## [[16]]
##          .1          .2          .3          .4
## 21.599398 -24.588508 3.977351 12.696196 -4.102237
##
## [[17]]
##          .1          .2          .3          .4
## -2.729019 -20.364872 20.465186 -5.504774 -34.355776
##
## [[18]]
##          .1          .2          .3          .4
## -55.073615 -3.403511 -8.571209 6.231728 22.672447
##
## [[19]]
##          .1          .2          .3          .4
##   5.452631 13.821478 -22.574964 8.826650 20.436291
##
## [[20]]
##          .1          .2          .3          .4
## -29.696516 3.302618 -7.415614 4.946571 16.880992
##
## [[21]]
##          .1          .2          .3          .4
## 15.1497224 7.2203378 -0.6402651 -3.6339873 31.7993850
##
## [[22]]
##          .1          .2          .3          .4

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```

## -3.553345 -12.840468 4.732799 26.058432 27.162885
##
## [[23]]
## .1 .2 .3 .4
## 16.564521 18.222944 3.274364 36.458259 23.189519
##
## [[24]]
## .1 .2 .3 .4
## -8.185796 2.952879 22.949110 -21.570407 7.079671
##
## [[25]]
## .1 .2 .3 .4
## -53.789050 9.556918 -6.059265 -20.911964 24.444103
##
## [[26]]
## .1 .2 .3 .4
## -14.9173490 46.2284543 4.8576932 -0.5551203 -3.7270005
##
## [[27]]
## .1 .2 .3 .4
## -6.347346 8.055251 7.750499 5.218035 9.054305
##
## [[28]]
## .1 .2 .3 .4
## 3.989787 24.907055 -21.640669 19.255445 -19.768743
##
## [[29]]
## .1 .2 .3 .4
## -1.322780 -5.396391 -10.074002 -34.263438 -8.746603
##
## [[30]]
## .1 .2 .3 .4
## -9.5255432 0.8617253 -10.5379161 -26.3806327 13.0140688
##
## [[31]]
## .1 .2 .3 .4
## -14.632227 45.906256 -2.514451 10.868039 21.116410
##
## [[32]]
## .1 .2 .3 .4
## 10.756458 -10.154654 -8.649419 5.866658 12.030574
##
## [[33]]
## .1 .2 .3 .4
## 0.1355026 48.5982624 0.7019607 25.9337064 36.8680059
##
## [[34]]
## .1 .2 .3 .4
## 13.28774 12.35420 12.76480 24.07620 14.42238
##
## [[35]]
## .1 .2 .3 .4
## 10.288895 1.905781 -5.396674 13.697748 1.999385
##

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## [[36]]
##          .1          .2          .3          .4
## -32.832078  45.415790 -2.955879 -2.463084  12.034592
##
## [[37]]
##          .1          .2          .3          .4
## -14.006546 -4.360258  3.167036  3.341286  19.704171
##
## [[38]]
##          .1          .2          .3          .4
## 10.621918 16.589771 -1.164542 52.951567 -6.018778
##
## [[39]]
##          .1          .2          .3          .4
## -21.861407 13.205749  5.082841  6.541500 -10.668098
##
## [[40]]
##          .1          .2          .3          .4
## 27.56466 38.84350 17.34533 15.77352 23.68260
##
## [[41]]
##          .1          .2          .3          .4
## 12.001620 17.409237 -1.119324  8.397181 37.313037
##
## [[42]]
##          .1          .2          .3          .4
## -9.673076 22.066087 -1.336767 -6.848546  4.278496
##
## [[43]]
##          .1          .2          .3          .4
## 37.512648 26.622137 -19.609297 43.626625 -5.620562
##
## [[44]]
##          .1          .2          .3          .4
## 17.571693 -7.876123 -3.119843 11.953564 11.888466
##
## [[45]]
##          .1          .2          .3          .4
## 6.6233225 -3.4315468 -0.9232394 51.8303898 18.6634837
##
## [[46]]
##          .1          .2          .3          .4
## -0.1927787 17.3655012 10.7477101 14.6777601 20.7250817
##
## [[47]]
##          .1          .2          .3          .4
## 2.5776567 -32.3778088 20.2971071 -15.5269929  0.4481406
##
## [[48]]
##          .1          .2          .3          .4
## 17.46119 24.02079 -19.18729 -14.31887 25.47335
##
## [[49]]
##          .1          .2          .3          .4

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```

## -21.298803  -1.909185  18.065350  13.395478   8.792046
##
## [[50]]
##           .1           .2           .3           .4
## -2.65466248  -0.08167787 -23.48220266   7.47332535 -27.93826221
##
## [[51]]
##           .1           .2           .3           .4
## -4.724751 -45.873622 -22.839303  25.604638   2.274577
##
## [[52]]
##           .1           .2           .3           .4
## -20.44683 -17.77701 -27.30937 -27.30577 -10.61373
##
## [[53]]
##           .1           .2           .3           .4
## -4.344083 -19.805698  27.503520 -16.231023  16.056015
##
## [[54]]
##           .1           .2           .3           .4
##  0.4921755 -16.4287351 -23.5636917   9.3142182 -0.8931647
##
## [[55]]
##           .1           .2           .3           .4
## -8.443350  9.299360 -2.245099  4.256938  4.983888
##
## [[56]]
##           .1           .2           .3           .4
## -24.9750577  33.1252774  10.8996568   0.1480077 -8.1299262
##
## [[57]]
##           .1           .2           .3           .4
## -0.5949503  6.3492762 -1.4467360 -3.7166944  2.8374448
##
## [[58]]
##           .1           .2           .3           .4
## -21.7357750   2.0023014   0.5505034  -6.6875202 -26.0729922
##
## [[59]]
##           .1           .2           .3           .4
## -0.6835568  9.3632934 12.9546855   8.3333173 34.4582509
##
## [[60]]
##           .1           .2           .3           .4
## -24.76306  14.96228  20.20350 -20.85839  22.87800
##
## [[61]]
##           .1           .2           .3           .4
## 16.455311  3.223787 -8.992664 -8.404990 12.196296
##
## [[62]]
##           .1           .2           .3           .4
## -12.853175   1.290955 -10.416904   6.637616   5.099679
##

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```

## [[63]]
##           .1           .2           .3           .4
##  0.4676557 14.1917768  1.7675828 32.7569175 -12.8597772
##
## [[64]]
##           .1           .2           .3           .4
##  7.880509 -46.902199 -11.251869  3.984028 -16.591970
##
## [[65]]
##           .1           .2           .3           .4
## -6.6034730 -37.3641315  0.1059729  6.8673085 -6.0108334
##
## [[66]]
##           .1           .2           .3           .4
## 13.77559 10.67505 18.24765  5.86132 25.07188
##
## [[67]]
##           .1           .2           .3           .4
##  0.817574 16.332860 34.349389 -7.742411 15.882866
##
## [[68]]
##           .1           .2           .3           .4
## -11.1366001  0.3514265 -14.7108411 10.5821425 25.2875563
##
## [[69]]
##           .1           .2           .3           .4
## -27.50987 -1.51189 16.79111 -4.56776 27.46869
##
## [[70]]
##           .1           .2           .3           .4
##  7.555758  6.190431  5.820747 -7.254219 12.359115
##
## [[71]]
##           .1           .2           .3           .4
## -16.931818 23.929108 -19.770821 -2.696569 -12.304777
##
## [[72]]
##           .1           .2           .3           .4
## -21.499204 -13.107885 -3.127497 15.176583 32.495334
##
## [[73]]
##           .1           .2           .3           .4
## -41.040167 32.791354 -17.220640 -29.944293  9.713356
##
## [[74]]
##           .1           .2           .3           .4
##  9.067017  3.419514 -8.208726 -20.631639  6.911940
##
## [[75]]
##           .1           .2           .3           .4
## -32.806099 22.702500 -39.142531 -3.908234 24.107928
##
## [[76]]
##           .1           .2           .3           .4

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```

## -4.571771 -19.512329 -9.848632 2.522520 -4.874243
##
## [[77]]
## .1 .2 .3 .4
## -4.281715 -18.230642 11.141593 30.315037 45.715786
##
## [[78]]
## .1 .2 .3 .4
## -11.118642 -8.613543 13.337524 -8.427378 8.368277
##
## [[79]]
## .1 .2 .3 .4
## 10.80533 -23.57832 15.80854 15.82515 -3.82675
##
## [[80]]
## .1 .2 .3 .4
## 9.945179 6.499854 -15.575402 2.169121 6.551921
##
## [[81]]
## .1 .2 .3 .4
## -33.015274 -16.670126 10.649743 13.582702 -1.971473
##
## [[82]]
## .1 .2 .3 .4
## -14.524129 18.889570 4.588387 -3.927695 -2.961302
##
## [[83]]
## .1 .2 .3 .4
## -11.536279 -29.970581 -3.515045 11.536438 -10.567278
##
## [[84]]
## .1 .2 .3 .4
## -21.957123 1.813378 -3.515560 7.873052 -6.952115
##
## [[85]]
## .1 .2 .3 .4
## -16.5136129 -14.2769113 -0.1524136 -1.8904933 0.2732701
##
## [[86]]
## .1 .2 .3 .4
## 9.033874 -21.599329 10.086624 39.807873 23.487614
##
## [[87]]
## .1 .2 .3 .4
## -11.926529 19.576462 1.653058 31.980548 25.125165
##
## [[88]]
## .1 .2 .3 .4
## -8.162054 -9.969698 30.717301 4.537117 -18.203219
##
## [[89]]
## .1 .2 .3 .4
## -8.424042 16.814274 -2.597653 20.174099 14.638851
##

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```

## [[90]]
##           .1           .2           .3           .4
## -6.044203 -10.886824 -9.284233 16.818038 24.645734
##
## [[91]]
##           .1           .2           .3           .4
## 19.415274 -9.070369 1.682762 5.240301 21.454675
##
## [[92]]
##           .1           .2           .3           .4
## 9.472079 -3.896611 34.191169 6.988445 26.711801
##
## [[93]]
##           .1           .2           .3           .4
## 10.022793 -16.717529 -7.594378 1.678789 -24.779066
##
## [[94]]
##           .1           .2           .3           .4
## -21.25899859 34.01525040 -2.50850784 -0.30272710 -0.05310234
##
## [[95]]
##           .1           .2           .3           .4
## 24.9167779 -28.1326758 0.5427747 13.7469017 4.1110337
##
## [[96]]
##           .1           .2           .3           .4
## 21.02314 34.86229 -11.41537 -38.82935 -22.26917
##
## [[97]]
##           .1           .2           .3           .4
## -20.228105 -5.508145 14.932674 -17.434711 10.331656
##
## [[98]]
##           .1           .2           .3           .4
## 23.504640 33.848158 1.381882 20.192136 -28.979417
##
## [[99]]
##           .1           .2           .3           .4
## -2.362383 -6.885438 -5.823792 21.206677 1.146935
##
## [[100]]
##           .1           .2           .3           .4
## 12.800475 -3.449378 -2.281613 24.719935 1.966540
##
## [[101]]
##           .1           .2           .3           .4
## 27.962330 -28.844887 -6.770569 7.227583 -13.381829
##
## [[102]]
##           .1           .2           .3           .4
## -7.482985 -13.603927 -28.851119 13.349116 15.048228
##
## [[103]]
##           .1           .2           .3           .4

```



```

## 24.14862 -30.74435 -10.86683 12.95876 -16.31978
##
## [[104]]
##          .1          .2          .3          .4
## 8.154381 17.225956 -4.648071 -1.957660 -21.232262
##
## [[105]]
##          .1          .2          .3          .4
## -16.336288 -31.677388 -2.218787 31.079558 2.952761
##
## [[106]]
##          .1          .2          .3          .4
## 40.205092 -2.701757 2.599485 4.804569 -4.077594
##
## [[107]]
##          .1          .2          .3          .4
## 14.33742 -11.13084 -4.62754 2.44165 -11.66848
##
## [[108]]
##          .1          .2          .3          .4
## -1.750107 3.142342 13.514304 -9.147570 -15.213717
##
## [[109]]
##          .1          .2          .3          .4
## -41.745403 14.378385 7.472671 16.503883 -28.814872
##
## [[110]]
##          .1          .2          .3          .4
## -13.030779 -2.187297 -3.620706 13.000828 -4.660811
##
## [[111]]
##          .1          .2          .3          .4
## -32.646000 -11.358696 12.231064 -24.533439 2.721257
##
## [[112]]
##          .1          .2          .3          .4
## -14.765294 -28.163744 3.299099 -8.827800 22.120024
##
## [[113]]
##          .1          .2          .3          .4
## 19.979411 8.920705 6.197716 -10.452115 10.969368
##
## [[114]]
##          .1          .2          .3          .4
## 23.134999 -28.259409 13.845534 -11.723892 1.651807
##
## [[115]]
##          .1          .2          .3          .4
## -11.932283 9.516606 -46.349213 24.480724 -28.907292
##
## [[116]]
##          .1          .2          .3          .4
## 21.656225 -18.024757 -7.203145 3.588306 -37.436558
##

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```

## [[117]]
##          .1          .2          .3          .4
## 12.14449 15.85994 -23.47150 -10.98687 -53.62952
##
## [[118]]
##          .1          .2          .3          .4
##  3.068470 -39.881515  -9.175270   2.262587 -28.061972
##
## [[119]]
##          .1          .2          .3          .4
## 13.980646  -8.585019 -25.137815  -4.187725 -54.219766
##
## [[120]]
##          .1          .2          .3          .4
## -2.8910443 -5.1703971 -18.0736065   0.8077907 -18.8077104
##
## [[121]]
##          .1          .2          .3          .4
##  0.655303737  0.005995717 -23.470424428  23.171927079  -4.564608644
##
## [[122]]
##          .1          .2          .3          .4
##  3.493739 11.581192 -3.498705  1.251756 -3.692343
##
## [[123]]
##          .1          .2          .3          .4
## -11.1735734 -24.2783843  -8.0380804  27.7351725   0.9570198
##
## [[124]]
##          .1          .2          .3          .4
## -4.8861213 10.2625213  0.5404266  6.7109469 11.0698297
##
## [[125]]
##          .1          .2          .3          .4
## -37.676510  -3.923486 -32.970161  37.741164 -37.837667
##
## [[126]]
##          .1          .2          .3          .4
##  3.792569 -15.917022  -7.374102  -3.711970 -21.841663
##
## [[127]]
##          .1          .2          .3          .4
## -6.684124 -39.155792 -26.617219  30.048079   2.103697
##
## [[128]]
##          .1          .2          .3          .4
## 46.774282 -26.898330   2.597660  -1.844942 -15.503258
##
## [[129]]
##          .1          .2          .3          .4
## 17.2108218 -44.5569516  -6.8524451   0.2086216 -49.5104614
##
## [[130]]
##          .1          .2          .3          .4

```

```

## 15.3266564 -16.3433334 -13.0319887 0.8691129 4.9914522
##
## [[131]]
##          .1          .2          .3          .4
## 3.232337 -3.130455 1.386621 -39.863710 -4.030445
##
## [[132]]
##          .1          .2          .3          .4
## 14.25612 15.00472 -24.67881 -23.80482 -26.77765
##
## [[133]]
##          .1          .2          .3          .4
## 5.5785171 -19.0519565 8.0152861 -14.5273181 0.7497617
##
## [[134]]
##          .1          .2          .3          .4
## -1.661432 -17.961892 16.566931 -4.395259 -3.173331
##
## [[135]]
##          .1          .2          .3          .4
## 19.0768474 0.5449369 -15.2209942 9.3321598 -37.7890700

```