

# semmcci: Internal Tests

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## Tests

```
#> test-semmcci-mc-latent-med-defined-none
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-latent-med-defined

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-latent-med-std-defined-none

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-latent-med-std-defined

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-moment

#> Test passed

#> test-semmcci-mc-simple-med-defined-equality

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-defined-inequality

#> Test passed
#> Test passed
#> Test passed
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#> test-semmcci-mc-simple-med-defined-none-mi-adj
#> Test passed

#> test-semmcci-mc-simple-med-defined-none-mi
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-defined-none
#> Test passed
#> Test passed
#> Test passed
#> Monte Carlo Confidence Intervals
#>      est      se      R    0.05%    0.5%    2.5%   97.5%   99.5%  99.95%
#> cp   -0.0199 0.0319 2000  -0.1248 -0.1017 -0.0849  0.0410  0.0621  0.0865
#> b     0.0817 0.0334 2000  -0.0249 -0.0011  0.0180  0.1503  0.1690  0.1927
#> a     0.1098 0.0313 2000  -0.0008  0.0315  0.0510  0.1694  0.1921  0.2151
#> y~~y  1.0476 0.0453 2000   0.9064  0.9347  0.9597  1.1354  1.1649  1.1817
#> m~~m  0.9615 0.0435 2000   0.8062  0.8382  0.8760  1.0452  1.0752  1.0999
#> x~~x  1.0040 0.0458 2000   0.8603  0.8929  0.9170  1.0930  1.1262  1.1486
#> y~1   -0.0038 0.0322 2000  -0.1040 -0.0866 -0.0677  0.0602  0.0759  0.0925
#> m~1   -0.0050 0.0308 2000  -0.0986 -0.0850 -0.0636  0.0536  0.0739  0.0980
#> x~1   -0.0258 0.0325 2000  -0.1259 -0.1113 -0.0904  0.0374  0.0591  0.0874
#> Standardized Monte Carlo Confidence Intervals
#>      est      se      R    0.05%    0.5%    2.5%   97.5%   99.5%  99.95%
#> cp   -0.0194 0.0311 2000  -0.1201 -0.0991 -0.0820  0.0406  0.0601  0.0864
#> b     0.0785 0.0320 2000  -0.0235 -0.0012  0.0174  0.1426  0.1633  0.1863
#> a     0.1115 0.0315 2000  -0.0007  0.0319  0.0520  0.1700  0.1951  0.2193
#> y~~y  0.9938 0.0054 2000   0.9634  0.9721  0.9787  0.9993  0.9998  1.0000
#> m~~m  0.9876 0.0072 2000   0.9519  0.9619  0.9711  0.9973  0.9990  1.0000
#> x~~x  1.0000 0.0000 2000   1.0000  1.0000  1.0000  1.0000  1.0000  1.0000

#> test-semmcci-mc-simple-med-defined
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-std-defined-none-random-x
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-std-defined-none
#> Test passed
#> Test passed
#> Test passed

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#> test-semmcci-mc-simple-med-std-defined

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-methods

#> Monte Carlo Confidence Intervals
#>
      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.5535 0.1082 100 0.2546 0.2714 0.3458 0.7581 0.7924 0.8056
#> visual=~x3      0.7294 0.1117 100 0.4317 0.4701 0.5172 0.9242 0.9492 0.9537
#> textual=~x5      1.1131 0.0659 100 0.9399 0.9636 1.0087 1.2359 1.2488 1.2584
#> textual=~x6      0.9261 0.0585 100 0.7955 0.7973 0.8080 1.0249 1.0501 1.0551
#> speed=~x8       1.1800 0.1766 100 0.7415 0.7515 0.8319 1.4879 1.5684 1.6221
#> speed=~x9       1.0815 0.1450 100 0.7172 0.7223 0.7650 1.3327 1.3467 1.3503
#> x1~~x1          0.5491 0.1240 100 0.1411 0.1524 0.2988 0.7490 0.7751 0.7845
#> x2~~x2          1.1338 0.1042 100 0.9031 0.9080 0.9237 1.3455 1.3540 1.3560
#> x3~~x3          0.8443 0.0966 100 0.6410 0.6583 0.6903 1.0630 1.0883 1.0953
#> x4~~x4          0.3712 0.0462 100 0.2701 0.2716 0.2794 0.4469 0.4655 0.4783
#> x5~~x5          0.4463 0.0620 100 0.2944 0.3122 0.3413 0.5625 0.5828 0.5903
#> x6~~x6          0.3562 0.0428 100 0.2424 0.2497 0.2683 0.4229 0.4450 0.4462
#> x7~~x7          0.7994 0.0801 100 0.6113 0.6291 0.6613 0.9595 1.0020 1.0100
#> x8~~x8          0.4877 0.0784 100 0.2795 0.2937 0.3316 0.6217 0.6934 0.6982
#> x9~~x9          0.5661 0.0655 100 0.3790 0.3887 0.4459 0.6810 0.6919 0.6951
#> visual~~visual  0.8093 0.1496 100 0.5271 0.5364 0.5760 1.1599 1.2177 1.2467
#> textual~~textual 0.9795 0.1219 100 0.6899 0.7052 0.7480 1.1941 1.2913 1.3601
#> speed~~speed    0.3837 0.0880 100 0.1681 0.1825 0.2200 0.5351 0.6114 0.6362
#> visual~~textual 0.4082 0.0736 100 0.2258 0.2277 0.2654 0.5622 0.5746 0.5819
#> visual~~speed   0.2622 0.0522 100 0.1312 0.1341 0.1566 0.3520 0.3622 0.3704
#> textual~~speed  0.1735 0.0461 100 0.0697 0.0749 0.0889 0.2628 0.2786 0.2810
#> Standardized Monte Carlo Confidence Intervals
#>
      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.4236 0.0597 100 0.2258 0.2463 0.2825 0.5033 0.5140 0.5190
#> visual=~x3      0.5811 0.0602 100 0.3760 0.3988 0.4648 0.6698 0.6904 0.7047
#> textual=~x5      0.8551 0.0222 100 0.8035 0.8050 0.8087 0.8915 0.8982 0.9013
#> textual=~x6      0.8380 0.0231 100 0.7771 0.7823 0.7913 0.8855 0.8881 0.8890
#> speed=~x8       0.7230 0.0539 100 0.5673 0.5712 0.6015 0.7985 0.8245 0.8306
#> speed=~x9       0.6650 0.0523 100 0.5518 0.5529 0.5577 0.7569 0.8002 0.8067
#> x1~~x1          0.4042 0.0913 100 0.1085 0.1202 0.2031 0.5429 0.5745 0.5965
#> x2~~x2          0.8206 0.0466 100 0.7307 0.7357 0.7467 0.9202 0.9388 0.9489
#> x3~~x3          0.6623 0.0676 100 0.5033 0.5232 0.5513 0.7839 0.8403 0.8585
#> x4~~x4          0.2748 0.0370 100 0.1889 0.1903 0.2122 0.3386 0.3534 0.3632
#> x5~~x5          0.2689 0.0379 100 0.1876 0.1933 0.2053 0.3460 0.3520 0.3543
#> x6~~x6          0.2977 0.0388 100 0.2097 0.2112 0.2159 0.3739 0.3880 0.3961
#> x7~~x7          0.6757 0.0596 100 0.5356 0.5501 0.5882 0.8074 0.8291 0.8400
#> x8~~x8          0.4772 0.0756 100 0.3101 0.3201 0.3623 0.6381 0.6737 0.6781
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#> x9~~x9          0.5578 0.0695 100 0.3492 0.3597 0.4270 0.6889 0.6943 0.6955
#> visual~~visual  1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> textual~~textual 1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> speed~~speed    1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> visual~~textual  0.4585 0.0673 100 0.2858 0.2990 0.3167 0.5912 0.6091 0.6114
#> visual~~speed    0.4705 0.0763 100 0.3009 0.3131 0.3324 0.6295 0.6792 0.6974
#> textual~~speed   0.2830 0.0660 100 0.1442 0.1555 0.1712 0.4279 0.4586 0.4694
#> Monte Carlo Confidence Intervals
#> Standardized Monte Carlo Confidence Intervals

#> test-semmcci-npd

#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> [[1]]
#> [[1]][[1]]
#> [[1]][[1]]$value
#> [[1]][[1]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
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#>
#> [[1]][[2]]$visible
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#> [[1]][[3]]
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#> [[1]][[3]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[3]]$visible
#> [1] TRUE
#>
#>

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#> [[1]][[4]]
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#> [[1]][[4]]$value[[1]]
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#>
#>
#> [[1]][[4]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[5]]
#> [[1]][[5]]$value
#> [[1]][[5]]$value[[1]]
#> Monte Carlo Confidence Intervals
#>
#>               est      se      R      0.05%      0.5%      2.5%
#> ses=~sei          5.2195  0.4222 20000   3.8428   4.1454   4.4030
#> alien67=~powerless67  0.9787  0.0609 20000   0.7767   0.8203   0.8592
#> alien71=~powerless71  0.9221  0.0591 20000   0.7288   0.7701   0.8073
#> alien71~alien67      0.6070  0.0510 20000   0.4372   0.4787   0.5065
#> alien71~ses        -0.2268  0.0519 20000  -0.3968  -0.3611  -0.3281
#> alien67~ses        -0.5750  0.0568 20000  -0.7644  -0.7231  -0.6856
#> anomia67~~anomia71    1.6229  0.3119 20000   0.6127   0.8182   1.0007
#> powerless67~~powerless71  0.3387  0.2607 20000  -0.5061  -0.3271  -0.1714
#> education~~education  2.8013  0.5083 20000   1.1637   1.5014   1.8175
#> sei~~sei          264.5971 18.1429 20000 204.5220 217.5003 228.7223
#> anomia67~~anomia67     4.7307  0.4520 20000   3.2141   3.5634   3.8482
#> powerless67~~powerless67  2.5634  0.3996 20000   1.3102   1.5373   1.7828
#> anomia71~~anomia71     4.3992  0.5126 20000   2.7245   3.0959   3.3907
#> powerless71~~powerless71  3.0699  0.4325 20000   1.6855   1.9422   2.2194
#> ses~~ses           6.7983  0.6585 20000   4.5914   5.0733   5.4932
#> alien67~~alien67      4.8415  0.4675 20000   3.2856   3.6411   3.9184
#> alien71~~alien71      4.0832  0.4037 20000   2.7407   3.0335   3.2945
#>
#>          97.5%      99.5%      99.95%
#> ses=~sei          6.0498  6.3360  6.6551
#> alien67=~powerless67  1.0980  1.1352  1.1742
#> alien71=~powerless71  1.0387  1.0738  1.1110
#> alien71~alien67      0.7080  0.7401  0.7821
#> alien71~ses        -0.1242 -0.0931 -0.0617
#> alien67~ses        -0.4640 -0.4265 -0.3901
#> anomia67~~anomia71    2.2313  2.4072  2.6656
#> powerless67~~powerless71  0.8526  0.9991  1.2036
#> education~~education  3.8036  4.1069  4.5869
#> sei~~sei          299.6380 310.5472 322.8922
#> anomia67~~anomia67     5.6112  5.8993  6.2304
#> powerless67~~powerless67  3.3484  3.6132  3.8614

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#> anomia71~~nomia71      5.4075  5.6952  6.0814
#> powerless71~~powerless71 3.9260  4.1836  4.4464
#> ses~~ses               8.0862  8.4662  8.8360
#> alien67~~alien67       5.7521  6.0303  6.3329
#> alien71~~alien71       4.8772  5.1232  5.4709
#>
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#>
#> [[1]][[6]]
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#>
#>
#> [[1]][[6]]$visible
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#>
#>
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#> [[1]][[7]]$value
#> [[1]][[7]]$value[[1]]
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#>
#> [[1]][[7]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$value
#> [[1]][[8]]$value[[1]]
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#>
#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
#> [1] TRUE
#>
#>

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#>
#> [[1]][[9]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[10]]
#> [[1]][[10]]$value
#> [[1]][[10]]$value[[1]]
#>      est      se    R   0.05%    0.5%    2.5%  97.5%  99.5% 99.95%
#> cp  -0.0194 0.0311 2000 -0.1201 -0.0991 -0.0820 0.0406 0.0601 0.0864
#> b    0.0785 0.0320 2000 -0.0235 -0.0012 0.0174 0.1426 0.1633 0.1863
#> a    0.1115 0.0315 2000 -0.0007 0.0319 0.0520 0.1700 0.1951 0.2193
#> y~~y 0.9938 0.0054 2000 0.9634 0.9721 0.9787 0.9993 0.9998 1.0000
#> m~~m 0.9876 0.0072 2000 0.9519 0.9619 0.9711 0.9973 0.9990 1.0000
#> x~~x 1.0000 0.0000 2000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#>
#>
#> [[1]][[10]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[11]]
#> [[1]][[11]]$value
#> [[1]][[11]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[11]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[12]]
#> [[1]][[12]]$value
#> [[1]][[12]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[12]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[13]]
#> [[1]][[13]]$value
#> [[1]][[13]]$value[[1]]
#> [1] TRUE
#>

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#> [[1]][[16]]
#> [[1]][[16]]$value
#> [[1]][[16]]$value[[1]]
#> [[1]][[16]]$value[[1]]$thetahatstar
#>           y1           y2           y3
#> [1,] -1.0224599377 -3.058060041 -2.9720819763
#> [2,]  0.0615679412 -0.160091349 -0.0120700289
#> [3,]  1.1461756196  2.666337921  2.9089635322
#> [4,]  0.5693834956  0.889881906  1.2038568062
#> [5,] -1.4724013317 -2.285296756 -3.1042984483
#> [6,]  1.3882805382  2.387354184  3.0560391341
#> [7,] -0.5571923713 -0.598706748 -1.0270647006
#> [8,]  1.9836260300  3.430974531  4.3775884178
#> [9,] -1.1726206390 -0.275525321 -1.6151390374
#> [10,] -0.7496639197 -1.611031083 -1.8288704179
#> [11,] -0.6983659782 -1.249932641 -1.5645084146
#> [12,] -0.5604328551 -0.787339678 -1.1357888968
#> [13,] -2.3963427328 -3.103395262 -4.7104449493
#> [14,] -0.4175132805 -0.485288420 -0.7899453002
#> [15,]  0.8796562791 -0.426349083  0.8603075475
#> [16,]  0.2152841663  0.869667845  0.7510842071
#> [17,]  1.1222001770  2.397159619  2.7296839566
#> [18,]  0.7902496656  1.575038079  1.8595054053
#> [19,] -0.1090701838  1.108469804  0.4791460372
#> [20,] -0.4954717133 -1.269593977 -1.3224146226
#> [21,] -1.2687566428 -2.414984624 -2.9223290114
#> [22,]  0.4485443966  0.301206863  0.7264829119
#> [23,] -0.2470738337  0.509437699 -0.0253794372
#> [24,]  0.8647651683  1.129990922  1.7054421783
#> [25,]  1.4807728948  2.209250166  3.0725349429
#> [26,]  2.6074693705  3.971477449  5.4554648289
#> [27,]  1.4811786046  2.091139539  3.0074944019
#> [28,]  1.7813750525  1.932930195  3.2940336875
#> [29,]  1.4324343358  2.055983778  2.9272013172
#> [30,] -1.2635558109  0.030701690 -1.5585901718
#> [31,]  1.3332892416  3.261521277  3.4725922456
#> [32,] -0.0537568134 -0.802700457 -0.5124987962
#> [33,] -1.7180601615 -1.676355727 -3.0726932222
#> [34,] -1.3792974646 -1.860230055 -2.7523056022
#> [35,]  1.3585530820  1.760494718  2.6710888441
#> [36,]  0.1577030570  0.016020800  0.2055433687
#> [37,]  1.5065932118  2.922971131  3.5008176053
#> [38,]  0.3059999951  1.313507525  1.1105174350
#> [39,]  0.7610101866  1.210522018  1.6207532191
#> [40,] -1.1554218895 -1.451248396 -2.2461696289

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#> [41,] -0.3642035129 -1.375776027 -1.2176524464
#> [42,]  1.2323987777  1.289273154  2.2522687606
#> [43,] -0.3206312862 -0.249832209 -0.5384670901
#> [44,] -1.2253778742 -0.863662657 -2.0073178311
#> [45,]  1.6468264205  1.816282733  3.0615198299
#> [46,] -2.2521150413 -4.776129788 -5.4588935876
#> [47,]  0.8869956374  1.027862624  1.6764861901
#> [48,]  1.4759579659  2.808363306  3.3990135342
#> [49,] -1.4612300906 -2.734876636 -3.3398661487
#> [50,] -0.4952735204 -1.095225394 -1.2254002168
#> [51,] -0.6411342747  1.025612984 -0.2303090977
#> [52,]  2.9497809535  5.868373272  6.9350181536
#> [53,] -0.7438440241 -0.801758440 -1.3725006928
#> [54,] -0.5952143312 -0.821733033 -1.1982475601
#> [55,] -1.7531961642 -2.065407844 -3.3324147373
#> [56,]  1.2500715189  1.982979863  2.6592844881
#> [57,]  0.0016536127 -0.748196824 -0.4131558902
#> [58,] -2.3655260887 -5.047032871 -5.7506547194
#> [59,]  0.6456532568  2.236323639  2.0461824319
#> [60,] -1.8342966307 -2.988560603 -3.9458564955
#> [61,]  1.9164993432  3.848777881  4.5257461751
#> [62,] -1.1691570425 -1.645811271 -2.3712713343
#> [63,] -1.5068887025 -2.505344319 -3.2694206804
#> [64,] -3.3263188803 -5.949458729 -7.4495523022
#> [65,] -1.0191119815  0.050685565 -1.2426834885
#> [66,] -0.8356374412 -0.958187969 -1.5737770509
#> [67,]  0.4462573519  1.223938841  1.2357086291
#> [68,]  1.5951982203  2.627537880  3.4473531583
#> [69,]  1.1838503432  2.010747981  2.5921181753
#> [70,] -0.2524817666 -1.518343276 -1.1574565614
#> [71,]  0.0225414522 -0.028109491  0.0125091404
#> [72,]  2.6781291110  2.970442249  4.9880434593
#> [73,]  1.0107394847  2.525322332  2.6618196864
#> [74,] -1.6887452892 -1.332246018 -2.8451716932
#> [75,]  2.0430338200  3.383425146  4.4252808023
#> [76,]  0.2039048641  1.033116263  0.8276014779
#> [77,]  0.4667591190 -0.001088382  0.5814350946
#> [78,] -0.9288728250 -1.030509048 -1.7301748435
#> [79,]  0.0883313934 -0.132218538  0.0367716931
#> [80,]  0.6722832321  2.211024908  2.0653497311
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#> [1759,] -1.5364767572 -3.347275699 -3.7735530472
#> [1760,] -1.1529454462 -1.962788779 -2.5269650501
#> [1761,] -2.0107911926 -3.963216572 -4.7068348702
#> [1762,] -0.0547259121 -0.090222668 -0.1183118996
#> [1763,] -0.7711463047 -1.109240923 -1.5771859843
#> [1764,] -0.3176702691 -0.146710683 -0.4775466329
#> [1765,] 3.1069947308 5.644337940 7.0067302980
#> [1766,] 1.3472871020 2.018886177 2.8004368384
#> [1767,] -0.0477919812 -0.040529634 -0.0820878758
#> [1768,] 0.1311450639 -0.577772069 -0.1571040882
#> [1769,] 0.6433276469 -0.161870754 0.7123849628
#> [1770,] 0.7787421535 0.331043348 1.1547907803
#> [1771,] -0.1486981987 -0.929631189 -0.7013300092
#> [1772,] -0.5370497583 -0.550791112 -0.9753561016
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#> [1774,] 0.2341746553 0.426633723 0.5287748727
#> [1775,] -0.7645647108 -1.404017525 -1.7325675431
#> [1776,] 0.3777613392 -0.827441125 0.0118655036
#> [1777,] 0.2086239166 0.673494095 0.6339107937
#> [1778,] -1.8052150453 -3.635077963 -4.2683824184
#> [1779,] 1.4480207942 2.527668924 3.2084028209
#> [1780,] -1.1082449559 -1.623715283 -2.2830528566
#> [1781,] -0.9541303698 -1.895687374 -2.2418082348
#> [1782,] 0.1844362577 -0.116685859 0.1652324853
#> [1783,] 2.7355513947 2.961259551 5.0545518633
#> [1784,] -0.3612208103 -0.125134322 -0.5198792928
#> [1785,] 0.6952882670 0.997769224 1.4207304323
#> [1786,] 0.8604344991 1.808170490 2.0764031882
#> [1787,] -1.4144265707 -3.023603234 -3.4417342875
#> [1788,] -0.3724606525 -0.425619639 -0.7006519166
#> [1789,] 0.0598110557 -0.739636112 -0.3358839085
#> [1790,] -0.8826903686 -1.034464742 -1.6747815069
#> [1791,] 0.3148826916 1.481240796 1.2146789194
#> [1792,] 0.0598089216 -0.749241046 -0.3412169059
#> [1793,] -1.9513126109 -3.145634359 -4.1789423941
#> [1794,] 0.7733136335 2.469554174 2.3348054998
#> [1795,] 1.4339184034 3.171256197 3.5479814178

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#> [1796,] -0.4943444700 -1.410027079 -1.3989434652
#> [1797,]  0.9771428889  0.847925328  1.6890403084
#> [1798,]  2.3758786828  5.019825948  5.7484654898
#> [1799,]  1.3194759704  1.526902765  2.4927267294
#> [1800,] -0.7944208441 -2.039488791 -2.1224574793
#> [1801,] -1.4326925632 -1.473098635 -2.6040464714
#> [1802,]  0.7969107462  1.561297445  1.8601861602
#> [1803,] -1.6075710905 -2.736800795 -3.5234182186
#> [1804,]  1.3360820291  2.620250993  3.1201966361
#> [1805,] -0.4606178714 -2.439454525 -1.9281762172
#> [1806,]  0.8005281843  2.283787105  2.2656485438
#> [1807,]  0.4403271818  1.141835702  1.1827500229
#> [1808,]  0.1527239486 -0.783838827 -0.2445540821
#> [1809,] -1.5787239187 -2.057702805 -3.1105754314
#> [1810,]  0.2481103019  1.307098404  1.0347733745
#> [1811,]  0.6158298630  1.054547507  1.3531569935
#> [1812,] -0.5877582046 -0.405983053 -0.9582260897
#> [1813,] -0.9680235106 -2.086135774 -2.3648235861
#> [1814,] -1.3668263990 -2.288533801 -2.9744450846
#> [1815,] -1.2959366017 -1.971600741 -2.7101623746
#> [1816,] -0.0824163205  0.039635687 -0.0807753237
#> [1817,]  0.3118613307  0.053946532  0.4188227851
#> [1818,]  2.1376923497  2.937744017  4.2959836915
#> [1819,] -1.9882486456 -2.861045116 -4.0670657615
#> [1820,]  0.0690632904 -0.283210543 -0.0710494793
#> [1821,]  0.1790145044  0.557489027  0.5326105050
#> [1822,] -0.0406387255 -0.427007481 -0.2876469360
#> [1823,]  1.9537107757  3.202317117  4.2133894147
#> [1824,]  0.0151522836 -0.892860571 -0.4766056461
#> [1825,]  0.3485423179  0.463817568  0.6920244926
#> [1826,] -2.0852313852 -4.782654689 -5.2544141192
#> [1827,] -1.6268813077 -1.624551735 -2.9302460045
#> [1828,]  0.7063685460  1.076202869  1.4780747036
#> [1829,] -0.9881836151 -1.867022767 -2.2683642800
#> [1830,] -0.6954610814 -0.444502955 -1.1139063132
#> [1831,]  0.5756828838  0.729755365  1.1228484884
#> [1832,] -0.3699377610 -0.086333874 -0.5092165283
#> [1833,] -0.1011125257 -1.308422354 -0.8522048828
#> [1834,] -2.4517639478 -3.863215259 -5.2012223601
#> [1835,] -1.1903598619 -2.210306851 -2.7109822305
#> [1836,]  1.0389225984  3.530043054  3.2545413895
#> [1837,] -2.9152494893 -4.949363320 -6.3819460758
#> [1838,]  0.4369006183  0.697389414  0.9318280863
#> [1839,] -2.1550021690 -4.741393293 -5.3185185162
#> [1840,]  0.2656505244  1.032241126  0.9041113928

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#> [1841,] -1.5559803612 -1.756841974 -2.9152495144
#> [1842,] -1.2173678792 -2.489435269 -2.8995652624
#> [1843,] -1.9071475538 -3.838733311 -4.5085103689
#> [1844,] 0.6508675787 2.139009636 1.9986793873
#> [1845,] 1.5652284188 2.388402247 3.2772711631
#> [1846,] -0.6413520621 -1.140636237 -1.4327582959
#> [1847,] -1.3434245445 -1.531410243 -2.5250915737
#> [1848,] 0.9325145455 1.787145610 2.1546176077
#> [1849,] -0.5181034042 -2.026553059 -1.7707164778
#> [1850,] 1.7833164790 1.154939567 2.8647023811
#> [1851,] -1.2578191370 -2.302883071 -2.8464784967
#> [1852,] 0.1959924386 1.216726639 0.9196309165
#> [1853,] -1.6019378256 -2.138474530 -3.1843476255
#> [1854,] -0.6643108079 -0.703225503 -1.2186427398
#> [1855,] 1.8851154598 2.017643347 3.4704081120
#> [1856,] -0.4570513939 -0.800106631 -1.0139594475
#> [1857,] 0.4025367254 2.023420551 1.6248687755
#> [1858,] 0.7819423350 0.554175736 1.2826104743
#> [1859,] -1.6373567996 -3.756222163 -4.1262965681
#> [1860,] 1.2496145800 3.093510052 3.2750124537
#> [1861,] -0.1458645127 -1.292130288 -0.8989682834
#> [1862,] 0.1147307968 0.391051237 0.3600840276
#> [1863,] -0.7346681308 -1.019472132 -1.4818805248
#> [1864,] -0.0270298820 1.959980181 1.0540012289
#> [1865,] 0.2313288789 0.355951060 0.4860003291
#> [1866,] -0.7272137000 -0.892745274 -1.4022569014
#> [1867,] 1.9825524522 2.384106799 3.7952819269
#> [1868,] 0.1768983035 -0.875238352 -0.2651320645
#> [1869,] -0.3232341218 -1.158296148 -1.0458722237
#> [1870,] 0.2002322108 0.417185837 0.4812061556
#> [1871,] 1.7660265543 3.373876423 4.0745592502
#> [1872,] 1.6916953995 3.050687567 3.8025135328
#> [1873,] -2.0877879612 -3.540911228 -4.5684864855
#> [1874,] 0.9256477002 0.374303600 1.3619866291
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#> [1876,] -2.4927363019 -3.842080330 -5.2405850493
#> [1877,] 1.3969678267 1.042236774 2.3203881605
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#> [1880,] 0.5752956194 1.763069902 1.6958118832
#> [1881,] -0.3605962277 -0.610305186 -0.7883499670
#> [1882,] -1.8189742665 -3.106927948 -3.9924387407
#> [1883,] -0.1377580416 0.142791951 -0.0925379139
#> [1884,] 0.0955972905 0.327698231 0.3010666694
#> [1885,] -1.0883536139 -1.152326610 -1.9966477815

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#> [1886,] 0.2223948830 -0.747005401 -0.1372348388
#> [1887,] 1.0332091874 1.974647648 2.3842375536
#> [1888,] -0.2138183554 0.814607982 0.1854461961
#> [1889,] 1.3250710561 2.361483311 2.9628609476
#> [1890,] 1.3075552435 2.157116024 2.8276037986
#> [1891,] 0.9716534078 2.021151110 2.3332862261
#> [1892,] -1.3931003469 -2.047091450 -2.8732177657
#> [1893,] -0.8500093939 0.307313450 -0.8893982792
#> [1894,] 1.1313795162 1.575410258 2.2850939147
#> [1895,] -1.2128970406 -3.237961161 -3.3093907489
#> [1896,] -0.6593355065 -1.146002636 -1.4581614111
#> [1897,] -0.0030576494 0.736758921 0.4050575279
#> [1898,] -0.2663732411 0.228588142 -0.2053051504
#> [1899,] -0.3596169675 -0.206520125 -0.5630450467
#> [1900,] 0.4558256436 -0.343718226 0.3776560559
#> [1901,] 0.5635263668 1.539924366 1.5572994352
#> [1902,] -0.4135918803 -1.110054381 -1.1317743450
#> [1903,] -1.8714935814 -3.049365187 -4.0259843325
#> [1904,] 0.8968534053 1.548798587 1.9778762745
#> [1905,] -0.2626211159 -0.523442507 -0.6179718507
#> [1906,] -1.1759144334 -1.649307756 -2.3816380656
#> [1907,] -2.1221723274 -3.115626847 -4.3753480632
#> [1908,] 0.5370231329 1.767502760 1.6505469238
#> [1909,] -0.0635088602 -0.189305684 -0.1842509821
#> [1910,] -0.7961776801 -1.874917331 -2.0333179479
#> [1911,] 0.7802647479 1.044656872 1.5527150523
#> [1912,] 1.6597171667 3.402989697 3.9581502607
#> [1913,] -0.1396916244 -1.683562817 -1.1084994826
#> [1914,] -0.7508845214 -0.603589461 -1.2713045629
#> [1915,] 2.4554553307 4.251615010 5.4213710397
#> [1916,] 1.7663803439 2.837620670 3.7774009280
#> [1917,] -0.1739070596 -0.958265982 -0.7486560555
#> [1918,] -0.0355279873 -0.021233466 -0.0560863601
#> [1919,] -0.4063852316 -2.211548557 -1.7340709513
#> [1920,] -0.0450586039 -0.301076565 -0.2232720482
#> [1921,] 0.0538770621 -0.129279905 -0.0045613368
#> [1922,] -1.3185568738 -2.358760420 -2.9532268047
#> [1923,] -0.0714675757 -0.581294237 -0.4117125730
#> [1924,] -1.0487332347 -0.674322299 -1.6819695969
#> [1925,] 1.5587902289 3.207268266 3.7236792279
#> [1926,] 1.0823880310 1.368970248 2.1094369700
#> [1927,] 1.7546847584 2.937414175 3.8181979881
#> [1928,] 1.8774488285 3.396512083 4.2260623974
#> [1929,] -0.6809581496 -0.965057127 -1.3847072240
#> [1930,] 0.4070144601 2.229895121 1.7450371613

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#> [1931,] -1.8684590287 -1.554000491 -3.1923355087
#> [1932,]  0.2263605749 -0.398000132  0.0613936101
#> [1933,]  1.0277637869  2.247802886  2.5290369704
#> [1934,] -1.5795711788 -2.531420319 -3.3745253343
#> [1935,] -2.0795491305 -4.071070633 -4.8524291047
#> [1936,]  0.2561682469  1.659824346  1.2405695975
#> [1937,]  0.2787032746  1.076630703  0.9450222627
#> [1938,]  0.9161263572  1.888361569  2.1903524907
#> [1939,]  0.2270866720  0.008192944  0.2877191894
#> [1940,] -0.9451248470 -1.263166234 -1.8795557808
#> [1941,] -0.3468836898 -1.163390876 -1.0781901134
#> [1942,] -0.4130186398 -1.164196709 -1.1611062508
#> [1943,]  0.2616186516 -0.241355674  0.1922908287
#> [1944,]  0.3451681578  1.477153678  1.2501760986
#> [1945,] -0.4632127696 -1.146634209 -1.2139508548
#> [1946,]  0.1193647758 -0.740045594 -0.2618488797
#> [1947,]  0.2472092492 -0.286284148  0.1493891755
#> [1948,] -1.3200271398 -1.418947290 -2.4335032575
#> [1949,] -0.8259294330 -0.194577538 -1.1378995443
#> [1950,]  0.3645134925  0.488125343  0.7254300190
#> [1951,] -0.2545004326  0.446533907 -0.0695492256
#> [1952,]  0.4395072787  0.503905237  0.8277029211
#> [1953,]  0.2191094320  1.921692804  1.3396840417
#> [1954,] -0.6729812805 -0.342879998 -1.0294779740
#> [1955,] -0.5014356737 -1.145403448 -1.2609310159
#> [1956,] -0.8038698581 -2.510934293 -2.3958727222
#> [1957,] -1.9942914954 -3.626221736 -4.4992420599
#> [1958,] -0.1692497632 -0.159881261 -0.2997784086
#> [1959,] -0.5793280825 -1.872881329 -1.7617810265
#> [1960,]  0.8293215735  1.382094745  1.8011518052
#> [1961,]  0.0010757612  1.371188390  0.7622936001
#> [1962,]  0.5002694137 -0.239083798  0.4911442571
#> [1963,] -1.8651995876 -2.622168517 -3.7810595851
#> [1964,]  1.0832747474  2.361659444  2.6614436288
#> [1965,] -0.3710678988 -3.100045475 -2.1831095475
#> [1966,] -1.0457443814 -1.147477862 -1.9408240851
#> [1967,]  0.5308463006  0.868913212  1.1441649628
#> [1968,]  0.9381752389  1.307480611  1.8954823853
#> [1969,]  0.1438015734  0.684049148  0.5589362666
#> [1970,] -1.3501456620 -1.690318913 -2.6216603293
#> [1971,] -0.7410319107 -0.894278578 -1.4203388475
#> [1972,]  0.6428554910  1.043219398  1.3805707738
#> [1973,]  1.4534799391  2.288778332  3.0826359865
#> [1974,] -0.1529239732 -0.122196884 -0.2585072300
#> [1975,]  0.3265288075  1.509073940  1.2446476178

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#> [1976,] 2.0405647157 4.561481607 5.0759738927
#> [1977,] -1.1156521762 -1.865950249 -2.4267197732
#> [1978,] 2.0866232915 2.016250530 3.7209113130
#> [1979,] 1.5889858852 2.542583758 3.3924605223
#> [1980,] -1.4020521102 -3.072217483 -3.4532824603
#> [1981,] -0.1250993239 -0.538379004 -0.4547741116
#> [1982,] -1.6787983821 -2.757314000 -3.6236211682
#> [1983,] -1.3957252356 -3.311568730 -3.5782228979
#> [1984,] 1.1626135511 3.470130515 3.3755325341
#> [1985,] 1.6474625821 2.330505438 3.3476851825
#> [1986,] -2.1434646682 -3.197777871 -4.4474895567
#> [1987,] 1.4656234947 1.685171447 2.7628022033
#> [1988,] -0.1076983586 -1.219121289 -0.8108589302
#> [1989,] 0.5557444417 1.652067679 1.6098303766
#> [1990,] 0.6325070758 1.552771685 1.6504466964
#> [1991,] -0.5801769310 -2.427466235 -2.0706109272
#> [1992,] -0.8744505344 -1.611612783 -1.9847996005
#> [1993,] 1.6168624138 1.775780673 3.0016783773
#> [1994,] -1.2480287512 -2.381584736 -2.8779462143
#> [1995,] 0.0520290750 -0.222170216 -0.0584159727
#> [1996,] 1.0887183503 1.744294518 2.3256200048
#> [1997,] -1.5442437869 -2.229861757 -3.1631204211
#> [1998,] 0.4194792014 0.561108895 0.8344739525
#> [1999,] 0.0788029180 0.453733050 0.3500684773
#> [2000,] 0.9901645005 1.150094630 1.8729693039
#>
#> [[1]][[16]]$value[[1]]$decomposition
#> [1] "eigen"
#>
#>
#>
#> [[1]][[16]]$visible
#> [1] TRUE

```

## Environment

```
ls()  
#> [1] "i"      "root"   "tex_file"
```

## Class

```
#> [[1]]  
#> [1] "character"  
#>  
#> [[2]]  
#> [1] "root_criterion"  
#>  
#> [[3]]  
#> [1] "character"
```

## References

R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>