

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-mice
#> Test passed

#> test-semmcci-mc-simple-med-defined-none-mi-mice
#> 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 0.0325 2000 -0.1196 -0.1036 -0.0836 0.0438 0.0638 0.0855
#> b    0.0817 0.0333 2000 -0.0206 0.0016 0.0174 0.1479 0.1661 0.1924
#> a    0.1098 0.0314 2000 0.0129 0.0287 0.0494 0.1714 0.1926 0.2007
#> y~~y 1.0476 0.0475 2000 0.9066 0.9258 0.9555 1.1408 1.1675 1.1847
#> m~~m 0.9615 0.0432 2000 0.8337 0.8472 0.8765 1.0465 1.0712 1.0968
#> x~~x 1.0040 0.0443 2000 0.8709 0.8895 0.9171 1.0919 1.1170 1.1396
#> y~1 -0.0038 0.0326 2000 -0.1104 -0.0867 -0.0666 0.0608 0.0810 0.0990
#> m~1 -0.0050 0.0306 2000 -0.1108 -0.0798 -0.0633 0.0548 0.0743 0.0963
#> x~1 -0.0258 0.0327 2000 -0.1428 -0.1101 -0.0892 0.0370 0.0593 0.0724
#> Standardized Monte Carlo Confidence Intervals
#>      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> cp  -0.0194 0.0316 2000 -0.1118 -0.1024 -0.0799 0.0431 0.0605 0.0879
#> b    0.0785 0.0320 2000 -0.0187 0.0015 0.0165 0.1417 0.1612 0.1810
#> a    0.1115 0.0317 2000 0.0127 0.0293 0.0511 0.1715 0.1919 0.2065
#> y~~y 0.9938 0.0054 2000 0.9656 0.9736 0.9787 0.9993 0.9997 1.0000
#> m~~m 0.9876 0.0072 2000 0.9573 0.9632 0.9706 0.9974 0.9991 0.9998
#> 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 0.1062 100 0.2590 0.2867 0.3504 0.7405 0.7917 0.8095
#> visual=~x3      0.7294 0.1089 100 0.4433 0.4443 0.4891 0.9091 0.9518 0.9535
#> textual=~x5      1.1131 0.0718 100 0.9446 0.9459 0.9742 1.2382 1.2707 1.2796
#> textual=~x6      0.9261 0.0570 100 0.7542 0.7556 0.7915 1.0341 1.0496 1.0499
#> speed=~x8        1.1800 0.1621 100 0.8194 0.8197 0.8780 1.4679 1.4842 1.4915
#> speed=~x9        1.0815 0.1654 100 0.5967 0.6152 0.7648 1.3517 1.4139 1.4329
#> x1~~x1           0.5491 0.1086 100 0.2835 0.2846 0.3230 0.7364 0.7603 0.7735
#> x2~~x2           1.1338 0.1036 100 0.9355 0.9389 0.9576 1.3140 1.3996 1.4293
#> x3~~x3           0.8443 0.0782 100 0.6534 0.6588 0.6794 0.9840 1.0219 1.0241
#> x4~~x4           0.3712 0.0469 100 0.2543 0.2550 0.2640 0.4508 0.4706 0.4752
#> x5~~x5           0.4463 0.0594 100 0.3178 0.3196 0.3383 0.5521 0.5574 0.5581
#> x6~~x6           0.3562 0.0437 100 0.2581 0.2603 0.2707 0.4317 0.4494 0.4567
#> x7~~x7           0.7994 0.0853 100 0.6020 0.6122 0.6367 0.9625 0.9794 0.9883
#> x8~~x8           0.4877 0.0664 100 0.3388 0.3442 0.3563 0.6219 0.6677 0.6715
#> x9~~x9           0.5661 0.0680 100 0.4235 0.4300 0.4526 0.7162 0.7474 0.7542
#> visual~~visual   0.8093 0.1495 100 0.4298 0.4381 0.5486 1.1164 1.1816 1.1870
#> textual~~textual 0.9795 0.1210 100 0.6784 0.7011 0.7415 1.1803 1.1920 1.1940
#> speed~~speed     0.3837 0.0818 100 0.1566 0.1793 0.2167 0.5407 0.5644 0.5789
#> visual~~textual  0.4082 0.0712 100 0.2402 0.2421 0.2849 0.5293 0.6021 0.6235
#> visual~~speed    0.2622 0.0573 100 0.1453 0.1458 0.1584 0.3750 0.3948 0.3970
#> textual~~speed   0.1735 0.0486 100 0.0569 0.0615 0.0789 0.2623 0.2736 0.2777
#> Standardized Monte Carlo Confidence Intervals
#>
      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.4236 0.0645 100 0.2107 0.2388 0.2946 0.5315 0.5835 0.5936
#> visual=~x3      0.5811 0.0565 100 0.4350 0.4455 0.4670 0.6712 0.6902 0.6940
#> textual=~x5      0.8551 0.0216 100 0.7894 0.7974 0.8121 0.8932 0.9048 0.9113
#> textual=~x6      0.8380 0.0267 100 0.7629 0.7679 0.7777 0.8834 0.8851 0.8853
#> speed=~x8        0.7230 0.0466 100 0.5829 0.5880 0.6240 0.8011 0.8203 0.8282
#> speed=~x9        0.6650 0.0582 100 0.4768 0.4814 0.5132 0.7468 0.7490 0.7491
#> x1~~x1           0.4042 0.0867 100 0.2154 0.2163 0.2370 0.5750 0.6152 0.6329
#> x2~~x2           0.8206 0.0536 100 0.6477 0.6594 0.7175 0.9130 0.9420 0.9554
#> x3~~x3           0.6623 0.0642 100 0.5183 0.5237 0.5495 0.7819 0.8014 0.8107
#> x4~~x4           0.2748 0.0413 100 0.1785 0.1812 0.1942 0.3651 0.3833 0.3887
#> x5~~x5           0.2689 0.0369 100 0.1695 0.1813 0.2021 0.3405 0.3640 0.3768
#> x6~~x6           0.2977 0.0444 100 0.2162 0.2166 0.2196 0.3952 0.4102 0.4179
#> x7~~x7           0.6757 0.0631 100 0.5266 0.5305 0.5453 0.8021 0.8423 0.8604
#> x8~~x8           0.4772 0.0665 100 0.3140 0.3271 0.3581 0.6106 0.6542 0.6602
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#> x9~~x9          0.5578 0.0736 100 0.4389 0.4390 0.4422 0.7366 0.7682 0.7726
#> 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 0.0649 100 0.3204 0.3245 0.3312 0.5904 0.6410 0.6456
#> visual~~speed    0.4705 0.0825 100 0.2831 0.2914 0.3223 0.6545 0.6739 0.6818
#> textual~~speed   0.2830 0.0697 100 0.1068 0.1200 0.1392 0.3964 0.4232 0.4389
#> 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]]$visible
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#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
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#> [[1]][[2]]$visible
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#>
#> [[1]][[3]]$visible
#> [1] TRUE
#>
#>

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#> [[1]][[4]]
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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  0.4193 20000   3.8401   4.1365   4.3938
#> alien67=~powerless67  0.9787  0.0613 20000   0.7821   0.8197   0.8598
#> alien71=~powerless71  0.9221  0.0591 20000   0.7241   0.7724   0.8052
#> alien71~alien67      0.6070  0.0515 20000   0.4344   0.4769   0.5069
#> alien71~ses        -0.2268  0.0522 20000  -0.3911  -0.3601  -0.3298
#> alien67~ses        -0.5750  0.0569 20000  -0.7713  -0.7232  -0.6874
#> anomia67~~anomia71    1.6229  0.3094 20000   0.6397   0.8237   1.0141
#> powerless67~~powerless71  0.3387  0.2598 20000  -0.4836  -0.3233  -0.1660
#> education~~education  2.8013  0.5017 20000   1.0315   1.5127   1.8211
#> sei~~sei          264.5971 18.1205 20000 206.3884 217.8885 229.0100
#> anomia67~~anomia67    4.7307  0.4518 20000   3.2021   3.5441   3.8538
#> powerless67~~powerless67  2.5634  0.4018 20000   1.3037   1.5370   1.7685
#> anomia71~~anomia71    4.3992  0.5133 20000   2.7376   3.0593   3.3741
#> powerless71~~powerless71  3.0699  0.4312 20000   1.6621   1.9775   2.2251
#> ses~~ses           6.7983  0.6461 20000   4.6227   5.1180   5.5307
#> alien67~~alien67      4.8415  0.4614 20000   3.3283   3.6710   3.9347
#> alien71~~alien71      4.0832  0.4032 20000   2.7543   3.0390   3.2760
#>
#>          97.5%      99.5%      99.95%
#> ses=~sei          6.0451  6.2990  6.6086
#> alien67=~powerless67  1.0996  1.1370  1.1734
#> alien71=~powerless71  1.0381  1.0745  1.1205
#> alien71~alien67      0.7086  0.7394  0.7745
#> alien71~ses        -0.1241 -0.0893 -0.0605
#> alien67~ses        -0.4633 -0.4297 -0.3975
#> anomia67~~anomia71    2.2236  2.4077  2.6159
#> powerless67~~powerless71  0.8502  1.0068  1.1695
#> education~~education  3.7885  4.1077  4.4690
#> sei~~sei          300.0243 311.6564 323.2718
#> anomia67~~anomia67    5.6224  5.9001  6.2360
#> powerless67~~powerless67  3.3408  3.6200  3.8951

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#> anomia71~~nomia71      5.3991  5.6836  6.0265
#> powerless71~~powerless71 3.9257  4.1783  4.5290
#> ses~~ses                8.0673  8.4340  8.8802
#> alien67~~alien67       5.7423  6.0648  6.3662
#> alien71~~alien71       4.8713  5.1175  5.3726
#>
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#>
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#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$value
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#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
#> [1] TRUE
#>

```

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#>
#> [[1]][[9]]$visible
#> [1] TRUE
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#>
#> [[1]][[10]]
#> [[1]][[10]]$value
#> [[1]][[10]]$value[[1]]
#>      est      se    R   0.05%    0.5%    2.5%  97.5%  99.5% 99.95%
#> cp  -0.0194 0.0316 2000 -0.1118 -0.1024 -0.0799 0.0431 0.0605 0.0879
#> b    0.0785 0.0320 2000 -0.0187  0.0015  0.0165 0.1417 0.1612 0.1810
#> a    0.1115 0.0317 2000  0.0127  0.0293  0.0511 0.1715 0.1919 0.2065
#> y~~y  0.9938 0.0054 2000  0.9656  0.9736  0.9787 0.9993 0.9997 1.0000
#> m~~m  0.9876 0.0072 2000  0.9573  0.9632  0.9706 0.9974 0.9991 0.9998
#> x~~x  1.0000 0.0000 2000  1.0000  1.0000  1.0000 1.0000 1.0000 1.0000
#>
#>
#> [[1]][[10]]$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,] 0.4019584315 0.398230205 0.7222350562
#> [2,] 0.9087417578 1.614480124 2.0291513111
#> [3,] 0.1096125701 -0.794145067 -0.3040326236
#> [4,] -1.6162914412 -1.926731406 -3.0847377230
#> [5,] 1.6072765537 3.000500882 3.6693934450
#> [6,] 0.4309569117 -0.020779704 0.5258626135
#> [7,] -0.4184667557 -0.678453126 -0.8983325885
#> [8,] 2.1600120755 3.643386995 4.7154182429
#> [9,] -1.5237912361 -1.836834107 -2.9195026170
#> [10,] -0.6485874326 -0.202804433 -0.9213232691
#> [11,] -1.0396905806 -1.644167706 -2.2089171873
#> [12,] -0.6217727736 -0.825616733 -1.2335206870
#> [13,] 0.2975119021 0.695790663 0.7571259606
#> [14,] 0.5058884918 0.179775125 0.7306002988
#> [15,] 1.6424091644 2.042415994 3.1815060939
#> [16,] -0.9142149464 -3.318947154 -2.9818841048
#> [17,] 0.2601989558 1.802344040 1.3246882728
#> [18,] 0.5419118452 1.791613015 1.6700232302
#> [19,] 0.2079669470 -0.232311833 0.1304072002
#> [20,] -1.0227563117 -1.183450488 -1.9321217326
#> [21,] 1.4701596203 2.902962663 3.4442817976
#> [22,] -1.7098208689 -3.461454564 -4.0530741087
#> [23,] -0.4981177472 0.307161149 -0.4506810938
#> [24,] 0.7733697278 1.266212759 1.6670713440
#> [25,] -0.4414064738 0.274476771 -0.3981017539
#> [26,] 0.7990332211 1.947614479 2.0772226230
#> [27,] -0.9992959831 -1.583490441 -2.1248726062
#> [28,] -1.6468492265 -3.310187788 -3.8906030275
#> [29,] -0.8590502438 0.211150136 -0.9540386478
#> [30,] -0.4044553557 -0.027669259 -0.5197028596
#> [31,] 1.3463587711 2.085632319 2.8363205430
#> [32,] -1.2450313140 -3.388052237 -3.4327557952
#> [33,] -0.0533720764 0.372869004 0.1403727953
#> [34,] 2.1756759324 3.630149568 4.7276045356
#> [35,] 0.7056079288 1.374375307 1.6425994485
#> [36,] -0.3720158607 -1.153676096 -1.1041381218
#> [37,] -0.9453404487 -2.680397842 -2.6663288377
#> [38,] -0.6862794589 -0.625171934 -1.2027207366
#> [39,] -0.0589414774 -1.006357545 -0.6319851233
#> [40,] -0.9832403834 -2.205927365 -2.4502780339

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#> [41,] -0.4972473755 -0.212703492 -0.7380988680
#> [42,] -0.1367276033  0.190635489 -0.0647018179
#> [43,] -1.6327636674 -1.421224547 -2.8247431107
#> [44,] -0.2750412344 -1.649160292 -1.2581857247
#> [45,]  2.7581887240  4.613514644  5.9997125513
#> [46,]  0.8426357037  0.626905666  1.3986559331
#> [47,] -1.3115937066 -0.799351695 -2.0791373243
#> [48,] -3.1912846957 -6.022660025 -7.3217910831
#> [49,] -0.9912529756 -2.191305625 -2.4521551193
#> [50,]  0.3136712025  0.317210317  0.5671800370
#> [51,]  0.8042699747  0.678429468  1.3794082046
#> [52,] -2.7280120768 -3.555761151 -5.3750739848
#> [53,] -0.3432911502 -0.673172071 -0.8016593778
#> [54,]  0.4209393302  0.619291538  0.8685836342
#> [55,] -0.5601302768 -1.080103014 -1.2978829814
#> [56,]  0.3086363886  1.216447410  1.0599406641
#> [57,]  1.5136178574  2.582027490  3.3203677489
#> [58,] -0.8812888451 -1.023755147 -1.6670904590
#> [59,]  0.4472342759  0.110495099  0.6190121738
#> [60,]  0.1638425089  0.185640998  0.3073312480
#> [61,] -0.3877795454  0.349408752 -0.2896459557
#> [62,] -1.4870182053 -0.937795693 -2.3747187187
#> [63,] -0.4339021496 -0.974902157 -1.0820970105
#> [64,] -0.8080180631  0.424695032 -0.7718940827
#> [65,]  1.9727519656  2.924069085  4.0827173816
#> [66,]  0.7300993172  0.008304531  0.9150276240
#> [67,] -0.7773762547 -1.990768572 -2.0741655421
#> [68,] -0.9319633916 -2.464096679 -2.5296098311
#> [69,] -0.7597914161 -0.295206716 -1.1112717665
#> [70,]  0.3877535207  0.478832608  0.7492527813
#> [71,]  1.9606316378  3.284473144  4.2676127435
#> [72,]  0.3661252409  1.411935078  1.2401155613
#> [73,]  0.4167791762 -0.538972955  0.2206077076
#> [74,] -0.5674581942 -2.017686632 -1.8273403986
#> [75,] -0.0723178629 -0.169608085 -0.1843042863
#> [76,] -0.8285278704 -2.029018897 -2.1591778923
#> [77,]  0.3555867846  0.754442195  0.8620932992
#> [78,]  0.4322973940  1.758674168  1.5150565645
#> [79,]  0.4203691025  1.333057139  1.2639825967
#> [80,] -0.8596732074 -0.763035088 -1.4954474828
#> [81,] -0.1471702187 -0.896627579 -0.6811090275
#> [82,]  0.0648804004 -0.067883615  0.0432319719
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#> [84,] -2.2218174395 -4.253810034 -5.1312475010
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#> [1768,] -1.0182408797 -1.672680434 -2.1979932176
#> [1769,] -0.4251550568 -0.702359468 -0.9199397827
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#> [1771,] -1.4974142209 -1.824658527 -2.8798540798
#> [1772,] -0.2125038240 0.209294444 -0.1488382806
#> [1773,] -2.2903585068 -3.999731361 -5.0757137884
#> [1774,] -0.5909834487 -0.758247944 -1.1577401695
#> [1775,] 3.4756536048 5.632961196 7.4601267781
#> [1776,] 1.2317211991 1.206619290 2.2055544002
#> [1777,] -0.5072213445 -1.427260547 -1.4245645183
#> [1778,] 0.0850550981 1.532383608 0.9564707170
#> [1779,] 0.0914901243 0.379377935 0.3246251889
#> [1780,] -0.0807150504 -0.603409074 -0.4355167943
#> [1781,] -0.4299611861 -1.402508603 -1.3144863838
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#> [1784,] -1.4079910684 -1.248038726 -2.4483453850
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#> [1786,] 0.4143260311 1.048318160 1.0984287979
#> [1787,] 0.0096890865 -0.559177580 -0.2982380518
#> [1788,] -1.7976829166 -3.831200269 -4.3678296760
#> [1789,] -1.5994545235 -2.281286727 -3.2605057889
#> [1790,] -1.0412869073 -1.914394773 -2.3608724822
#> [1791,] -0.2609427745 0.105440630 -0.2668751827
#> [1792,] 0.4556000065 0.629619649 0.9175364599
#> [1793,] 0.2657835524 0.552969746 0.6383017261
#> [1794,] 1.8997787126 1.972965823 3.4638987341
#> [1795,] -0.5904624167 -0.478978272 -1.0021074777

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#> [1796,] -0.3643527299 -0.660025358 -0.8206268624
#> [1797,]  0.3142111060  0.954006655  0.9212485916
#> [1798,] -0.1723250277 -0.057615182 -0.2468598083
#> [1799,] -0.3734106109 -1.172565646 -1.1163602561
#> [1800,] -0.2347002512 -0.383345194 -0.5054069591
#> [1801,] -1.1509077728 -2.464670485 -2.8029474473
#> [1802,]  0.8250323480  1.300883576  1.7507344296
#> [1803,]  1.1476289708  1.914618411  2.4936029761
#> [1804,] -0.9335988171 -1.765444940 -2.1439267090
#> [1805,] -1.9521178285 -4.763134720 -5.0775914635
#> [1806,]  2.0016757941  3.895861687  4.6580890132
#> [1807,] -2.1036027552 -2.740865017 -4.1442150601
#> [1808,] -1.6642915399 -3.252468736 -3.8803215791
#> [1809,]  0.3900329975  0.322545457  0.6653624171
#> [1810,]  1.2061063642  1.434599738  2.3001328272
#> [1811,]  0.5662690155  0.170384799  0.8006823425
#> [1812,]  0.4016284976  1.359419059  1.2552432064
#> [1813,] -1.8788470219 -2.652615857 -3.8149746561
#> [1814,] -0.5531127406 -0.644971580 -1.0476525292
#> [1815,]  0.0319614459  0.906675805  0.5430223821
#> [1816,]  0.0075590246 -0.521654453 -0.2800704314
#> [1817,]  0.1234714747  0.191861010  0.2604412381
#> [1818,]  0.0202999110  0.165498913  0.1171585424
#> [1819,]  0.4569702699  0.777431481  1.0012745283
#> [1820,]  0.7701319141  1.286674577  1.6743893087
#> [1821,]  0.5910535386  1.143509746  1.3716317398
#> [1822,] -0.4038252239 -2.138909407 -1.6905669867
#> [1823,]  0.6537878540  2.209636214  2.0415157050
#> [1824,]  0.2907018510  0.214462162  0.4815167997
#> [1825,] -0.6552108721 -1.350765539 -1.5666529141
#> [1826,] -0.6942932496 -0.542110365 -1.1666180766
#> [1827,] -0.6341118276 -0.892800178 -1.2861912345
#> [1828,] -0.6929363857 -0.809196953 -1.3131479693
#> [1829,] -0.0183220436  0.338750138  0.1651449293
#> [1830,]  2.7263237994  3.931111699  5.5812725767
#> [1831,] -0.9198540882 -1.875989603 -2.1881349721
#> [1832,] -0.8619848396 -1.687934135 -2.0116102883
#> [1833,]  2.3431864526  4.173117948  5.2378114553
#> [1834,]  0.3307092582 -0.339339929  0.2240682463
#> [1835,]  0.5684592960  1.100280231  1.3194666094
#> [1836,] -0.2679567209 -0.686392000 -0.7150553878
#> [1837,]  1.0856273992  1.001031760  1.9092859398
#> [1838,] -0.5388417342 -0.631420573 -1.0223366339
#> [1839,]  0.6105995013  0.241097035  0.8952038844
#> [1840,] -0.9774178522 -0.421619691 -1.4528014020

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#> [1841,] 0.6349027607 0.260060873 0.9360336892
#> [1842,] -0.6896329689 -0.359440244 -1.0594325326
#> [1843,] -1.3481904706 -2.450846063 -3.0412829721
#> [1844,] 0.1739588639 -0.177194624 0.1185875577
#> [1845,] 0.1903101922 -0.263613707 0.0910183577
#> [1846,] 0.8034190284 2.148583368 2.1942209541
#> [1847,] 2.1255872837 2.131005091 3.8331825932
#> [1848,] -1.3856705867 -2.860669011 -3.3154544899
#> [1849,] -0.0161052728 0.765024592 0.4044736720
#> [1850,] -3.8351531616 -6.392938674 -8.3301710748
#> [1851,] -0.3601392608 -1.207681001 -1.1192987052
#> [1852,] 0.8444550940 0.883088101 1.5430952017
#> [1853,] 0.3339643996 0.888717084 0.9096475675
#> [1854,] 1.8128077513 2.831390473 3.8318374591
#> [1855,] -0.2907737818 -1.123047969 -0.9858335786
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#> [1857,] 0.8699112389 1.705262981 2.0311111307
#> [1858,] 1.8187338079 2.221949915 3.5010131376
#> [1859,] -2.2067197888 -4.282243077 -5.1282001869
#> [1860,] 1.8461333439 4.026402623 4.5365755042
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#> [1862,] -0.3909903268 -0.873049336 -0.9720627913
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#> [1865,] 0.3471712558 -1.064911848 -0.1580660148
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#> [1867,] 1.0511056676 1.833209024 2.3280615847
#> [1868,] 1.0729989229 1.018340449 1.9031440852
#> [1869,] 1.2828851412 1.700716297 2.5435579442
#> [1870,] 2.2362271639 3.439893757 4.6975266766
#> [1871,] -0.1991775872 -0.742775398 -0.6605796361
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#> [1874,] 1.4942941593 1.087253342 2.4667344225
#> [1875,] 0.3277168130 0.470996868 0.6700397236
#> [1876,] -1.7906053828 -3.632129009 -4.2485279209
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#> [1880,] 1.7527497868 2.363687249 3.4973906949
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#> [1882,] 0.9557178383 0.154347754 1.2774171923
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#> [1886,] -0.2284690237 -1.121161666 -0.9070939967
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#> [1898,] 0.2576365496 1.066798745 0.9132961613
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#> [1900,] 0.5085764891 0.561465757 0.9457744967
#> [1901,] -1.3280612411 -2.464692897 -3.0238666462
#> [1902,] -1.9365419753 -2.806794960 -3.9724820330
#> [1903,] 1.0849507357 2.191765152 2.5692493331
#> [1904,] -0.9036453394 -2.183405737 -2.3385260767
#> [1905,] 0.4525907202 1.229993802 1.2469664597
#> [1906,] -0.2014295392 -1.257454193 -0.9490129573
#> [1907,] -1.0869815189 -2.859177357 -2.9421675089
#> [1908,] 0.3393479349 1.921123768 1.4893032115
#> [1909,] -0.3384156508 -1.486291665 -1.2468270602
#> [1910,] -0.6742254942 -0.866806680 -1.3217868558
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#> [1912,] -1.2458833426 -2.719944182 -3.0630462594
#> [1913,] 0.5540316982 2.040030404 1.8229976897
#> [1914,] 0.8946452685 0.850944865 1.5878431751
#> [1915,] 0.6786875162 0.563454739 1.1590032797
#> [1916,] 0.3202638370 0.134699238 0.4741149100
#> [1917,] -0.2458033854 -1.063349158 -0.8966260705
#> [1918,] 2.1798504766 3.885751155 4.8746582862
#> [1919,] -0.2810972562 0.790593877 0.0882239562
#> [1920,] -1.1015719780 -1.341135118 -2.1179116286
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#> [1924,] -0.1380346477 -1.031320407 -0.7444660371
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#> [1933,] -1.0983155123 -2.717616056 -2.8777401724
#> [1934,] -0.3158407724 -0.056587059 -0.4252504500
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#> [1936,] 0.8037113854 1.980488744 2.1013000389
#> [1937,] 2.0715933285 3.521979285 4.5377856729
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#> [1943,] -0.1283448551 -0.366578581 -0.3634791810
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#> [1946,] -1.1646969162 -2.606748426 -2.8989895361
#> [1947,] -0.9583835151 -2.494496421 -2.5794257701
#> [1948,] -0.1281911063 -0.840946817 -0.6265419696
#> [1949,] 0.4771352720 0.526372215 0.8870924935
#> [1950,] 1.2047557068 0.918966702 2.0122938382
#> [1951,] -0.3529059626 -2.082141901 -1.5955681175
#> [1952,] -0.7096153384 -2.011283013 -2.0010537174
#> [1953,] -0.5883052313 -1.713331257 -1.6844317384
#> [1954,] 0.4362902875 2.827821022 2.1133673622
#> [1955,] 2.7434122506 3.571026144 5.4027491197
#> [1956,] -1.7884541174 -4.120932643 -4.5171108884
#> [1957,] -1.3437354794 -2.094824863 -2.8381508289
#> [1958,] -0.2661467331 -1.171314468 -0.9819100371
#> [1959,] 2.1103587614 3.583846162 4.6204589035
#> [1960,] 1.7606104421 2.764513412 3.7296345106
#> [1961,] -1.8057779810 -3.024300576 -3.9301285099
#> [1962,] 0.2932016639 0.790665018 0.8044024761
#> [1963,] 2.1831363576 4.248732675 5.0801952589
#> [1964,] -0.2617072168 0.566641031 -0.0118815133
#> [1965,] 0.5454604937 0.725045266 1.0825478767
#> [1966,] 0.4696745293 0.032247694 0.6035706782
#> [1967,] -0.0334873933 -0.519986838 -0.3303290205
#> [1968,] 0.1646375333 0.425605097 0.4414926558
#> [1969,] -0.2929283805 -0.114182147 -0.4286420268
#> [1970,] -1.8658218079 -2.364520275 -3.6388514935
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#> [1973,] -1.6225221209 -1.530960519 -2.8728709812
#> [1974,] -0.1163674717 -0.028580924 -0.1609690798
#> [1975,] -0.2597719254 1.203165159 0.3437759969

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#> [1976,] 0.1183041942 1.016625974 0.7117077690
#> [1977,] 1.6395480994 2.642668843 3.5110536041
#> [1978,] -0.2441611999 -0.504877541 -0.5846499333
#> [1979,] -1.5697382080 -2.554871821 -3.3752784222
#> [1980,] 2.1419805618 5.457090457 5.6994627989
#> [1981,] -0.8682107071 -1.121414864 -1.7049793417
#> [1982,] -0.4579588686 -1.541007752 -1.4262601522
#> [1983,] 0.6350584099 -0.062208445 0.7573818018
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#> [1987,] 1.8465948158 3.123583842 4.0361243262
#> [1988,] 0.0828385623 0.575918110 0.4229084360
#> [1989,] 0.5355936469 1.976442182 1.7647170150
#> [1990,] -2.1253383449 -2.927337899 -4.2748035395
#> [1991,] -1.4701722088 -2.855395225 -3.4178995590
#> [1992,] 0.5645279508 0.874215461 1.1891078197
#> [1993,] 1.7493592312 2.834878054 3.7546539104
#> [1994,] 0.1804263943 -0.705528743 -0.1665508796
#> [1995,] -0.4314495403 -0.457781000 -0.7920580653
#> [1996,] 0.4762071544 1.168719136 1.2424107976
#> [1997,] -0.4094672233 -0.460794282 -0.7663188098
#> [1998,] 0.3231508885 -0.617688235 0.0601714576
#> [1999,] -0.0866453646 0.255902360 0.0339700933
#> [2000,] -0.2089621619 -1.079762973 -0.8597947962
#>
#> [[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/>