

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

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

#> test-semccci-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 0.0326 2000 -0.1219 -0.1086 -0.0843 0.0461 0.0609 0.0867
#> b    0.0817 0.0335 2000 -0.0293 -0.0060 0.0164 0.1493 0.1707 0.1970
#> a    0.1098 0.0311 2000 0.0200 0.0303 0.0477 0.1696 0.1926 0.2068
#> y~~y 1.0476 0.0471 2000 0.8903 0.9296 0.9570 1.1412 1.1704 1.1989
#> m~~m 0.9615 0.0423 2000 0.8382 0.8510 0.8784 1.0424 1.0642 1.0949
#> x~~x 1.0040 0.0448 2000 0.8497 0.8872 0.9202 1.0891 1.1235 1.1380
#> y~1 -0.0038 0.0330 2000 -0.1104 -0.0885 -0.0702 0.0607 0.0798 0.1111
#> m~1 -0.0050 0.0322 2000 -0.1090 -0.0878 -0.0687 0.0594 0.0805 0.0902
#> x~1 -0.0258 0.0320 2000 -0.1175 -0.1012 -0.0859 0.0365 0.0579 0.0845
#> Standardized Monte Carlo Confidence Intervals
#>      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> cp  -0.0194 0.0318 2000 -0.1228 -0.1059 -0.0819 0.0441 0.0576 0.0824
#> b    0.0785 0.0321 2000 -0.0281 -0.0060 0.0156 0.1449 0.1640 0.1892
#> a    0.1115 0.0313 2000 0.0212 0.0315 0.0490 0.1711 0.1956 0.2052
#> y~~y 0.9938 0.0055 2000 0.9610 0.9713 0.9780 0.9991 0.9997 1.0000
#> m~~m 0.9876 0.0071 2000 0.9579 0.9617 0.9707 0.9976 0.9990 0.9995
#> x~~x 1.0000 0.0000 2000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000

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

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

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

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

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

#> test-semccci-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 0.1105 100 0.2861 0.2918 0.3095 0.7311 0.7565 0.7637
#> visual=~x3      0.7294 0.1095 100 0.4956 0.4972 0.5146 0.9399 0.9814 0.9950
#> textual=~x5      1.1131 0.0582 100 0.9477 0.9605 0.9819 1.2057 1.2278 1.2382
#> textual=~x6      0.9261 0.0495 100 0.8048 0.8140 0.8342 1.0208 1.0521 1.0567
#> speed=~x8       1.1800 0.1614 100 0.7234 0.7328 0.8622 1.4650 1.5273 1.5701
#> speed=~x9       1.0815 0.1659 100 0.6284 0.6751 0.7416 1.3510 1.3647 1.3669
#> x1~~x1          0.5491 0.1213 100 0.2431 0.2634 0.3081 0.7646 0.8158 0.8293
#> x2~~x2          1.1338 0.1094 100 0.8059 0.8452 0.9204 1.3553 1.3711 1.3745
#> x3~~x3          0.8443 0.0956 100 0.6243 0.6280 0.6770 1.0270 1.0594 1.0609
#> x4~~x4          0.3712 0.0486 100 0.2738 0.2776 0.2824 0.4614 0.4943 0.5016
#> x5~~x5          0.4463 0.0562 100 0.3104 0.3294 0.3531 0.5575 0.5842 0.5921
#> x6~~x6          0.3562 0.0406 100 0.2662 0.2671 0.2709 0.4262 0.4405 0.4415
#> x7~~x7          0.7994 0.0878 100 0.5759 0.5811 0.6202 0.9613 0.9908 1.0137
#> x8~~x8          0.4877 0.0632 100 0.2928 0.2948 0.3490 0.5814 0.6166 0.6285
#> x9~~x9          0.5661 0.0679 100 0.4097 0.4182 0.4444 0.6903 0.7045 0.7101
#> visual~~visual  0.8093 0.1507 100 0.3516 0.4046 0.5196 1.1125 1.2097 1.2136
#> textual~~textual 0.9795 0.1181 100 0.7217 0.7378 0.7749 1.2193 1.2567 1.2728
#> speed~~speed    0.3837 0.0897 100 0.1855 0.1885 0.2275 0.5512 0.6085 0.6352
#> visual~~textual 0.4082 0.0804 100 0.2073 0.2111 0.2334 0.5776 0.6220 0.6364
#> visual~~speed   0.2622 0.0651 100 0.0992 0.1066 0.1522 0.3714 0.3984 0.4032
#> textual~~speed  0.1735 0.0464 100 0.0408 0.0498 0.0920 0.2708 0.2744 0.2773
#> Standardized Monte Carlo Confidence Intervals
#>
      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.4236 0.0710 100 0.2450 0.2465 0.2594 0.5616 0.6044 0.6193
#> visual=~x3      0.5811 0.0543 100 0.4322 0.4377 0.4564 0.6835 0.6972 0.6973
#> textual=~x5      0.8551 0.0216 100 0.7904 0.7906 0.8066 0.8892 0.8934 0.8967
#> textual=~x6      0.8380 0.0206 100 0.7830 0.7907 0.8028 0.8790 0.8816 0.8820
#> speed=~x8       0.7230 0.0514 100 0.5612 0.5612 0.6165 0.8109 0.8207 0.8266
#> speed=~x9       0.6650 0.0495 100 0.5352 0.5406 0.5534 0.7445 0.7531 0.7542
#> x1~~x1          0.4042 0.0928 100 0.1687 0.1882 0.2361 0.5875 0.6619 0.7017
#> x2~~x2          0.8206 0.0599 100 0.6164 0.6344 0.6844 0.9327 0.9392 0.9400
#> x3~~x3          0.6623 0.0616 100 0.5137 0.5140 0.5327 0.7916 0.8084 0.8132
#> x4~~x4          0.2748 0.0386 100 0.1988 0.1997 0.2041 0.3460 0.3632 0.3639
#> x5~~x5          0.2689 0.0367 100 0.1959 0.2019 0.2093 0.3493 0.3749 0.3752
#> x6~~x6          0.2977 0.0346 100 0.2221 0.2228 0.2274 0.3555 0.3746 0.3869
#> x7~~x7          0.6757 0.0663 100 0.5253 0.5292 0.5387 0.8013 0.8251 0.8301
#> x8~~x8          0.4772 0.0729 100 0.3167 0.3265 0.3425 0.6196 0.6851 0.6851
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#> x9~~x9          0.5578 0.0645 100 0.4312 0.4329 0.4457 0.6937 0.7077 0.7136
#> 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 0.0710 100 0.2740 0.2810 0.2992 0.5867 0.6381 0.6400
#> visual~~speed    0.4705 0.0832 100 0.2320 0.2768 0.3297 0.6167 0.6644 0.6683
#> textual~~speed   0.2830 0.0681 100 0.1014 0.1067 0.1691 0.4154 0.4245 0.4267
#> 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]]
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#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
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#>
#> [[1]][[2]]$visible
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#> [[1]][[3]]$value[[1]]
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#>
#>
#> [[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  0.4255 20000   3.8228   4.1125   4.3786
#> alien67=~powerless67  0.9787  0.0615 20000   0.7757   0.8186   0.8597
#> alien71=~powerless71  0.9221  0.0595 20000   0.7226   0.7701   0.8062
#> alien71~alien67      0.6070  0.0508 20000   0.4398   0.4747   0.5062
#> alien71~ses        -0.2268  0.0522 20000  -0.4001  -0.3604  -0.3294
#> alien67~ses        -0.5750  0.0566 20000  -0.7506  -0.7194  -0.6855
#> anomia67~~anomia71    1.6229  0.3131 20000   0.6073   0.8294   1.0096
#> powerless67~~powerless71  0.3387  0.2613 20000  -0.5144  -0.3315  -0.1766
#> education~~education   2.8013  0.5081 20000   1.1664   1.4804   1.7913
#> sei~~sei          264.5971 18.0802 20000 206.5723 218.2530 228.8190
#> anomia67~~anomia67     4.7307  0.4546 20000   3.2544   3.5380   3.8492
#> powerless67~~powerless67  2.5634  0.4041 20000   1.2086   1.5219   1.7701
#> anomia71~~anomia71     4.3992  0.5135 20000   2.7609   3.0748   3.3954
#> powerless71~~powerless71  3.0699  0.4344 20000   1.6362   1.9146   2.2136
#> ses~~ses           6.7983  0.6507 20000   4.7564   5.1202   5.5414
#> alien67~~alien67      4.8415  0.4614 20000   3.3593   3.6506   3.9426
#> alien71~~alien71      4.0832  0.4054 20000   2.6931   3.0453   3.2753
#>
#>          97.5%      99.5%      99.95%
#> ses=~sei          6.0558  6.3029  6.5990
#> alien67=~powerless67  1.1002  1.1374  1.1826
#> alien71=~powerless71  1.0399  1.0772  1.1155
#> alien71~alien67      0.7053  0.7352  0.7655
#> alien71~ses        -0.1247  -0.0932  -0.0605
#> alien67~ses        -0.4638  -0.4276  -0.3885
#> anomia67~~anomia71    2.2439  2.4214  2.6103
#> powerless67~~powerless71  0.8456  1.0011  1.1671
#> education~~education   3.7922  4.1009  4.5158
#> sei~~sei          299.9977 310.6247 321.9617
#> anomia67~~anomia67     5.6243  5.9003  6.1896
#> powerless67~~powerless67  3.3471  3.6110  3.8486

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#> anomia71~~nomia71      5.4106  5.7222  6.1345
#> powerless71~~powerless71 3.9321  4.1763  4.4709
#> ses~~ses               8.0707  8.4749  8.8686
#> alien67~~alien67       5.7375  6.0106  6.3277
#> alien71~~alien71       4.8670  5.1226  5.4000
#>
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#> [[1]][[6]]$visible
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#>
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#> [[1]][[7]]$value[[1]]
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#>
#> [[1]][[7]]$visible
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#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$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]]$value[[1]]
#>      est      se    R   0.05%    0.5%    2.5%  97.5%  99.5% 99.95%
#> cp  -0.0194 0.0318 2000 -0.1228 -0.1059 -0.0819 0.0441 0.0576 0.0824
#> b    0.0785 0.0321 2000 -0.0281 -0.0060 0.0156 0.1449 0.1640 0.1892
#> a    0.1115 0.0313 2000 0.0212 0.0315 0.0490 0.1711 0.1956 0.2052
#> y~~y 0.9938 0.0055 2000 0.9610 0.9713 0.9780 0.9991 0.9997 1.0000
#> m~~m 0.9876 0.0071 2000 0.9579 0.9617 0.9707 0.9976 0.9990 0.9995
#> x~~x 1.0000 0.0000 2000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#>
#>
#> [[1]][[10]]$visible
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#>
#>
#> [[1]][[11]]
#> [[1]][[11]]$value
#> [[1]][[11]]$value[[1]]
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#>
#>
#> [[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,] -1.393306131 -3.8505629382 -3.8743255422
#> [2,] -0.304832812 -1.2820864596 -1.0916246059
#> [3,] -1.178133372 -1.7950031603 -2.4652598864
#> [4,]  1.026230404  1.5926341614  2.1635336613
#> [5,]  0.507710205  2.0715275836  1.7827153481
#> [6,] -0.510628943 -2.1231571998 -1.8150072307
#> [7,] -0.293044545  0.1819481633 -0.2644469579
#> [8,] -0.298189622 -1.0359253953 -0.9467315992
#> [9,]  0.384136944  0.3386499722  0.6669474902
#> [10,] -1.337733231 -1.5520152021 -2.5294295120
#> [11,]  0.320928404 -1.3380515723 -0.3423714269
#> [12,]  0.071882900  1.6117451346  0.9840875792
#> [13,]  0.956765366  1.2316775193  1.8765963527
#> [14,]  1.267678736  2.4383621474  2.9339584302
#> [15,] -0.546186736 -0.3653954081 -0.8838628728
#> [16,]  0.568723606 -0.0043060741  0.7067970465
#> [17,] -0.495249087  0.5287438772 -0.3241347959
#> [18,]  2.043989285  3.4026400106  4.4371356934
#> [19,]  0.656303590  0.4599000692  1.0736224734
#> [20,]  1.270567089  1.4117593107  2.3678385558
#> [21,]  1.465249942  2.9659107556  3.4730930849
#> [22,]  1.647014738  3.2495796864  3.8571744583
#> [23,]  1.791476675  2.3806593043  3.5551011143
#> [24,]  0.574212544 -0.4046958762  0.4914420627
#> [25,]  1.375400861  0.6362202861  2.0681724417
#> [26,] -0.113687291  0.5286267641  0.1515999884
#> [27,] -0.119866200  0.4874060456  0.1210192422
#> [28,]  0.528102969  1.8061510875  1.6608718648
#> [29,] -0.138151505  0.3164536760  0.0033464314
#> [30,] -1.753448301 -3.6977194734 -4.2385937588
#> [31,] -1.092867049 -1.7105900743 -2.3120887923
#> [32,] -0.713140968 -1.2917692370 -1.6061500844
#> [33,]  1.223452102  2.1252885183  2.7050659639
#> [34,] -0.159009532  0.0706220525 -0.1590893615
#> [35,]  0.746098786  1.5282304153  1.7784738649
#> [36,]  0.799129518  0.5120811424  1.2806818034
#> [37,] -0.759564832 -0.8869492743 -1.4393815653
#> [38,]  0.372269985  0.4506731571  0.7143178119
#> [39,] -0.226976439 -0.7052699747 -0.6744302975
#> [40,] -0.981346678 -2.5351277325 -2.6306090428

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#> [41,] 0.997386130 2.1824193407 2.4548715215
#> [42,] 0.505520397 1.4648202075 1.4432875106
#> [43,] 0.668592989 0.8324504423 1.2956969635
#> [44,] -0.076607998 1.0935592292 0.5113509756
#> [45,] 0.083784862 1.1464096032 0.7406873466
#> [46,] -1.304915860 -1.9250335287 -2.6955164733
#> [47,] -0.641950380 -1.4679458311 -1.6151475073
#> [48,] -0.981752921 -1.7905765686 -2.2179208967
#> [49,] -0.082412081 0.4904711724 0.1694247818
#> [50,] 0.104083011 0.0216761793 0.1418187637
#> [51,] 1.012249594 2.2848123229 2.5302297759
#> [52,] -0.257857874 -0.3202742973 -0.4992823350
#> [53,] 1.806334002 1.6156278433 3.1490674681
#> [54,] 1.718015556 2.8045402983 3.6987328029
#> [55,] 1.787288082 3.5601445966 4.2044429797
#> [56,] 1.036235204 0.5014812551 1.5704652646
#> [57,] 1.317518654 2.5285419903 3.0461538284
#> [58,] 1.157664692 1.5116613283 2.2824930056
#> [59,] 0.731122454 1.9542670818 1.9962311969
#> [60,] 0.425133756 1.7874874448 1.5221138158
#> [61,] -0.193153871 -1.2616040172 -0.9409963463
#> [62,] -0.141347347 -0.3744434574 -0.3840577009
#> [63,] 0.768302098 2.1769860098 2.1661931355
#> [64,] 0.915491852 1.9881823640 2.2449576383
#> [65,] -1.594125044 -2.1712271294 -3.1927815682
#> [66,] -1.288049112 -2.0832270024 -2.7622747372
#> [67,] -1.624077981 -2.9037157982 -3.6366328127
#> [68,] 1.615748392 2.3169153477 3.3005963033
#> [69,] 1.139271621 2.5445861480 2.8327872497
#> [70,] -0.658312611 -1.1232440131 -1.4442557980
#> [71,] -0.552124983 0.0711390657 -0.6490093895
#> [72,] 0.716040390 0.7403920664 1.3037743595
#> [73,] -0.340129594 -0.1801493775 -0.5241100285
#> [74,] -0.413410052 0.3485625958 -0.3220762558
#> [75,] -0.916121239 -0.5947852036 -1.4724653853
#> [76,] -1.361855632 -3.2148046324 -3.4822881697
#> [77,] 1.060663404 1.9463203734 2.4027519502
#> [78,] -0.646444856 -2.0706937795 -1.9552519029
#> [79,] 0.561200494 1.3056061119 1.4243622987
#> [80,] 0.142824924 0.7758614831 0.6086704070
#> [81,] -0.793483595 -1.4211433637 -1.7781329249
#> [82,] -0.895985150 -0.9710912990 -1.6561902201
#> [83,] -0.865000158 -1.6283375167 -1.9822967005
#> [84,] 0.571948951 1.2363983865 1.3993580149
#> [85,] 1.335141616 2.7918220003 3.2142386855

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#> [1779,] -1.592933873 -2.4268039987 -3.3331306636
#> [1780,] -1.319245458 -1.8107364332 -2.6499550874
#> [1781,] -1.612757884 -3.2423288719 -3.8104329610
#> [1782,]  1.571005623  1.8841110849  3.0046147378
#> [1783,]  1.259426576  1.0635904923  2.1607274451
#> [1784,]  0.959175312  2.1466195047  2.3873560014
#> [1785,] -0.763159908 -0.0968161419 -1.0053737453
#> [1786,]  1.685637347  2.3065992365  3.3820213948
#> [1787,] -1.896378380 -3.9893950540 -4.5786923876
#> [1788,]  0.006062282 -1.5540148530 -0.8548536375
#> [1789,]  0.460380017  1.2609018100  1.2738322047
#> [1790,]  0.426542478  0.0518560376  0.5606677003
#> [1791,]  0.694677617 -0.2339448744  0.7364192095
#> [1792,]  1.077655231  1.0352978407  1.9183610491
#> [1793,] -0.088049212 -0.0494951466 -0.1372633055
#> [1794,] -0.577290801 -0.4757916854 -0.9839143193
#> [1795,]  0.351983269  0.6285813134  0.7877522686

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#> [1796,] -0.685357943 -1.7223039806 -1.8104339767
#> [1797,] -0.766046765 -2.4604585445 -2.3206961698
#> [1798,] 1.419286355 1.0599435732 2.3580454420
#> [1799,] -0.583812808 -0.9393979668 -1.2493292050
#> [1800,] -0.353395138 -0.8329790909 -0.9029450490
#> [1801,] 1.194385253 1.6051482395 2.3801641188
#> [1802,] 0.086345520 0.4108825528 0.3356937166
#> [1803,] -0.776587313 -0.1124771191 -1.0308086318
#> [1804,] 0.626251078 0.6420802343 1.1372499685
#> [1805,] 0.210564343 -0.3069384873 0.0922314311
#> [1806,] -1.360353463 -2.6056037601 -3.1423340181
#> [1807,] -0.383618039 -1.1309412556 -1.1059889164
#> [1808,] 1.245669155 2.8578282905 3.1392990786
#> [1809,] -0.424058084 -0.8450530869 -0.9977608635
#> [1810,] -0.516274428 -1.5662395902 -1.5129810789
#> [1811,] -1.312384134 -1.5398329626 -2.4910590719
#> [1812,] 0.356095595 1.3364556803 1.1857208920
#> [1813,] -1.143513621 -0.0438282657 -1.4502610138
#> [1814,] -1.703659793 -3.3805087976 -4.0004698617
#> [1815,] 0.903772231 1.0080854533 1.6864307585
#> [1816,] 0.521988188 0.7637353229 1.0747497524
#> [1817,] 0.676402570 0.3789579353 1.0537659968
#> [1818,] 1.156385220 2.1686008638 2.6454714675
#> [1819,] 0.513155150 0.9440337572 1.1637932158
#> [1820,] 0.089947497 0.4691962205 0.3725469527
#> [1821,] 0.057548455 -0.0859722389 0.0240507564
#> [1822,] -0.816942464 -1.6868750908 -1.9548556397
#> [1823,] -2.458257450 -5.0259607678 -5.8545947003
#> [1824,] 0.699495289 1.0897525591 1.4770234030
#> [1825,] 0.553011892 0.1628818662 0.7799871657
#> [1826,] 0.977032416 1.4335725196 2.0139122226
#> [1827,] -1.457375518 -1.6178201201 -2.7151399780
#> [1828,] -0.642836227 -1.2614120250 -1.5016345246
#> [1829,] -0.993876242 -1.0156072902 -1.8029629271
#> [1830,] 0.038905828 1.0143805180 0.6114534912
#> [1831,] 0.510128611 0.2764188370 0.7895208545
#> [1832,] 0.183195772 0.1339939906 0.3028024457
#> [1833,] 0.878359796 1.0979296910 1.7046017611
#> [1834,] 0.123923885 0.0743843938 0.1958107814
#> [1835,] 0.638310937 1.5636136813 1.6637008468
#> [1836,] -1.205624676 -3.0869142313 -3.2164975367
#> [1837,] -1.360664529 -2.0554796824 -2.8374260809
#> [1838,] 0.563218613 0.0105709706 0.7081885693
#> [1839,] -2.637381649 -5.1281409971 -6.1346646726
#> [1840,] -0.736699824 -1.2394449761 -1.6064897228

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#> [1841,] 0.338859927 0.5908175856 0.7504304408
#> [1842,] -1.333286252 -1.3192764691 -2.3947239668
#> [1843,] 0.573727270 1.0457944239 1.2957983237
#> [1844,] 1.364326941 1.7450607424 2.6697235179
#> [1845,] -1.170797882 -3.3954912561 -3.3443165636
#> [1846,] -0.796707575 -1.4251150141 -1.7843572630
#> [1847,] -1.831191048 -2.1506973457 -3.4770048690
#> [1848,] 0.567925359 0.3779598327 0.9179432221
#> [1849,] 0.161279446 0.2335384161 0.3307162223
#> [1850,] 0.835991794 2.3103525580 2.3246136555
#> [1851,] 2.527351497 3.9446850746 5.3406908287
#> [1852,] -1.345615147 -1.2887942333 -2.3931814837
#> [1853,] -0.478713856 -0.8381774268 -1.0620997941
#> [1854,] 0.453772985 1.5262007680 1.4128231849
#> [1855,] 0.089096979 -1.0937186083 -0.4958659199
#> [1856,] -0.627204361 -0.7851220628 -1.2178209188
#> [1857,] -1.325642521 -2.2639618884 -2.9094532463
#> [1858,] 0.077169955 0.3871782732 0.3110970906
#> [1859,] -0.045303693 0.8798532091 0.4317889126
#> [1860,] -0.278963917 -0.3507568443 -0.5425176784
#> [1861,] -0.990949205 -1.9836903441 -2.3365585345
#> [1862,] -0.343164841 -0.0532502960 -0.4574712424
#> [1863,] 0.310095486 1.2277123591 1.0680117037
#> [1864,] 2.354762552 3.5252191086 4.8926898860
#> [1865,] -1.313269487 -2.7238364256 -3.1492354395
#> [1866,] -0.865853736 -0.9035837381 -1.5811530918
#> [1867,] 1.931373766 3.1073172918 4.1328146928
#> [1868,] -1.057130606 -1.3173551824 -2.0492972753
#> [1869,] 0.358281374 0.4679425300 0.7064580776
#> [1870,] -1.242898109 -2.0044622432 -2.6622612140
#> [1871,] 0.149564940 0.6921404383 0.5706133950
#> [1872,] -0.426471901 -1.1855524580 -1.1897337401
#> [1873,] -0.771687953 -0.4627681296 -1.2190960750
#> [1874,] -1.599921420 -2.1992863381 -3.2155812163
#> [1875,] 1.358800969 1.4427627562 2.4950700182
#> [1876,] -2.094607512 -2.3925193301 -3.9396809038
#> [1877,] -0.979602589 -1.5410785688 -2.0767785316
#> [1878,] 2.818596019 3.9459181687 5.7045511236
#> [1879,] -2.254966693 -3.0893091356 -4.5263347001
#> [1880,] -1.442998610 -3.1985195724 -3.5744342819
#> [1881,] -0.145264037 0.1552265680 -0.0949970456
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#> [1885,] 0.370937375 0.3442992223 0.6536229939

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#> [1886,] -2.367002194 -2.4000316298 -4.2835205285
#> [1887,] -1.796847293 -3.2630212560 -4.0514721072
#> [1888,] -1.216929367 -1.6952435757 -2.4582753084
#> [1889,] -0.989269389 -1.1898089343 -1.8938928939
#> [1890,] 0.196429927 0.7621272089 0.6678928048
#> [1891,] -0.443141670 -0.5703935958 -0.8691331880
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#> [1893,] -1.426734335 -3.5526709722 -3.7506922623
#> [1894,] 0.217963169 0.4908575241 0.5442010008
#> [1895,] -0.013287029 -0.8192388133 -0.4712118960
#> [1896,] 1.731884706 3.1992593301 3.9350798860
#> [1897,] 0.615697751 1.0489198279 1.3498691263
#> [1898,] 1.070363337 3.1523765717 3.0841582642
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#> [1900,] -2.243598339 -3.7986109553 -4.9057914086
#> [1901,] -1.844818149 -3.2976153100 -4.1304890373
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#> [1903,] -1.627929545 -2.9513491041 -3.6678701247
#> [1904,] -0.930267947 -1.1779330207 -1.8137286648
#> [1905,] 0.183812135 -0.4811513900 -0.0378088936
#> [1906,] -0.301237587 -1.9521876814 -1.4590195556
#> [1907,] -2.991221801 -5.6392249473 -6.8595263192
#> [1908,] 1.228296877 2.9361798776 3.1611180538
#> [1909,] 0.499576989 0.7663833463 1.0482729865
#> [1910,] -1.497028405 -2.2846330544 -3.1346395799
#> [1911,] -1.478113002 -2.7263081428 -3.3561636404
#> [1912,] 1.234288547 1.1732010048 2.1902100811
#> [1913,] 0.766860159 0.3661330179 1.1594474731
#> [1914,] 1.319161993 2.7228284498 3.1560238895
#> [1915,] -0.663434417 -1.9904317626 -1.9318954789
#> [1916,] -1.241028390 -3.0968802516 -3.2661759697
#> [1917,] -1.204008274 -1.6992310546 -2.4443758520
#> [1918,] -0.820517967 -1.0183412437 -1.5883059237
#> [1919,] -0.052977251 -0.5387617283 -0.3650517541
#> [1920,] -0.124941227 -0.0568723292 -0.1873609237
#> [1921,] -0.092968553 -0.5629154043 -0.4283243703
#> [1922,] -0.341922865 -1.0361319115 -1.0013806684
#> [1923,] -1.443923283 -3.4735751869 -3.7282316809
#> [1924,] 0.178554438 0.4210670434 0.4563283221
#> [1925,] -0.246443577 0.1326620055 -0.2336882553
#> [1926,] 1.501108245 2.2856354606 3.1402833508
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#> [1929,] 0.896063042 1.9361782755 2.1918702159
#> [1930,] 0.577006377 0.1270862912 0.7900427543

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#> [1931,] 2.190560076 2.4823502005 4.1091841659
#> [1932,] -2.146784462 -2.7097216338 -4.1807784936
#> [1933,] -0.795441034 -2.1565612705 -2.1886999595
#> [1934,] 0.364600601 -0.0150454902 0.4462998960
#> [1935,] -1.222008642 -1.9309430280 -2.5954123886
#> [1936,] -1.210491368 -1.1095569033 -2.1252156724
#> [1937,] 1.126092636 2.6808161381 2.8919552657
#> [1938,] 0.710919779 2.5674792451 2.3113459507
#> [1939,] -1.031055420 -1.2497892340 -1.9792857775
#> [1940,] -1.254526625 -2.7797535972 -3.1070159779
#> [1941,] 0.331251020 1.1498538551 1.0511840137
#> [1942,] -0.501194924 -1.2431972623 -1.3149022781
#> [1943,] 0.120597180 -1.2164339935 -0.5246877130
#> [1944,] 0.751809013 1.0113753360 1.4987614721
#> [1945,] 0.729037330 2.3867442722 2.2336378238
#> [1946,] -0.710969570 -2.0527808424 -2.0257719744
#> [1947,] 0.495172749 0.6363283137 0.9706058910
#> [1948,] 0.048112994 -0.0341277068 0.0410564742
#> [1949,] -0.655289925 -1.8591588182 -1.8488884766
#> [1950,] 2.135011109 3.2020346561 4.4393104789
#> [1951,] -1.213025060 -2.8843420489 -3.1133065838
#> [1952,] 0.902187892 2.0810393350 2.2798996018
#> [1953,] 0.896729640 2.0608745863 2.2619026821
#> [1954,] 0.386516562 0.7030909592 0.8721643144
#> [1955,] 0.146169717 0.1443901324 0.2624011340
#> [1956,] 0.332878234 -0.3730609639 0.2080591528
#> [1957,] -0.659118242 -0.3844868935 -1.0352811322
#> [1958,] -0.532396623 -1.4824320895 -1.4865754732
#> [1959,] -1.636662923 -2.7293608616 -3.5555662883
#> [1960,] 0.534490032 0.0776441875 0.7095874410
#> [1961,] -0.053327139 -0.7336682898 -0.4736530379
#> [1962,] -0.096788019 0.5409133531 0.1794915779
#> [1963,] 0.065612579 0.1184949503 0.1475772835
#> [1964,] -0.041313370 -0.1154779630 -0.1156023644
#> [1965,] 0.179929276 0.9060890951 0.7272096486
#> [1966,] 1.120836103 1.7799667652 2.3854667913
#> [1967,] -1.043117478 -0.8884714027 -1.7938106491
#> [1968,] 2.884626775 3.6010899855 5.5955249246
#> [1969,] -0.244409582 -0.3947123810 -0.5238226098
#> [1970,] -0.139737329 0.2351718930 -0.0437390450
#> [1971,] 1.657380822 2.9190322920 3.6866607893
#> [1972,] -1.804673642 -3.1322925058 -3.9886824207
#> [1973,] 1.221277358 2.3013870375 2.8000814077
#> [1974,] -0.668636995 -1.4994121381 -1.6658876547
#> [1975,] 0.134813368 -0.7292690602 -0.2366042749

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#> [1976,] 1.855003429 1.7159118904 3.2654106984
#> [1977,] 1.063570312 2.7859322582 2.8723262487
#> [1978,] 1.177507291 2.6837771034 2.9577115038
#> [1979,] 1.005967729 2.0243816595 2.3778683044
#> [1980,] -0.518303675 -0.3575265024 -0.8447263512
#> [1981,] 0.562227138 0.1292218115 0.7727984685
#> [1982,] -0.936709200 -1.3191937470 -1.9001545644
#> [1983,] -0.067783453 0.1246668388 -0.0153397079
#> [1984,] -0.278953772 0.1721013690 -0.2523406096
#> [1985,] -0.548393851 -0.2813374589 -0.8399664578
#> [1986,] 0.948075010 0.9639092300 1.7171594666
#> [1987,] 0.965128143 1.7884122537 2.1959890327
#> [1988,] 0.153511828 -0.5971026899 -0.1399408755
#> [1989,] 0.201096333 0.0347522804 0.2700490860
#> [1990,] 0.794291544 1.7763913749 1.9762881944
#> [1991,] -2.499939900 -5.1358118769 -5.9675346317
#> [1992,] 0.535044612 -0.2858700082 0.5085438327
#> [1993,] -1.346794575 -1.6749846788 -2.6089717342
#> [1994,] 1.260567995 2.2912511466 2.8434510352
#> [1995,] 1.708244316 3.9641278832 4.3300708259
#> [1996,] 0.598486196 1.3545566679 1.4980223175
#> [1997,] -1.025379374 -1.5391472513 -2.1327894491
#> [1998,] -0.621996452 -0.4929669043 -1.0491928813
#> [1999,] 0.389708941 0.5626934050 0.7982303820
#> [2000,] 1.299641995 2.4951989244 3.0053579938
#>
#> [[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/>