

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 0.0325 2000 -0.1286 -0.1010 -0.0836 0.0431 0.0596 0.0750
#> b    0.0817 0.0331 2000 -0.0263 -0.0055 0.0176 0.1451 0.1653 0.1840
#> a    0.1098 0.0312 2000 0.0215 0.0317 0.0514 0.1714 0.1907 0.2067
#> y~~y 1.0476 0.0461 2000 0.9101 0.9340 0.9562 1.1391 1.1727 1.1885
#> m~~m 0.9615 0.0425 2000 0.8040 0.8546 0.8810 1.0438 1.0656 1.0963
#> x~~x 1.0040 0.0443 2000 0.8686 0.8979 0.9175 1.0935 1.1226 1.1334
#> y~1 -0.0038 0.0329 2000 -0.1208 -0.0914 -0.0689 0.0603 0.0826 0.0922
#> m~1 -0.0050 0.0303 2000 -0.1075 -0.0857 -0.0656 0.0561 0.0732 0.0938
#> x~1 -0.0258 0.0307 2000 -0.1239 -0.1056 -0.0863 0.0341 0.0516 0.0649
#> 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 -0.1275 -0.1005 -0.0797 0.0418 0.0585 0.0717
#> b    0.0785 0.0318 2000 -0.0258 -0.0053 0.0167 0.1400 0.1591 0.1749
#> a    0.1115 0.0314 2000 0.0217 0.0324 0.0519 0.1742 0.1892 0.2066
#> y~~y 0.9938 0.0052 2000 0.9688 0.9741 0.9791 0.9992 0.9998 1.0000
#> m~~m 0.9876 0.0072 2000 0.9573 0.9642 0.9696 0.9973 0.9989 0.9995
#> 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-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 0.1024 100 0.2741 0.3099 0.3710 0.7331 0.8718 0.8897
#> visual=~x3      0.7294 0.1094 100 0.4218 0.4422 0.4934 0.9237 1.0062 1.0624
#> textual=~x5      1.1131 0.0637 100 0.9198 0.9323 0.9899 1.2458 1.2617 1.2628
#> textual=~x6      0.9261 0.0539 100 0.8088 0.8148 0.8295 1.0378 1.0630 1.0788
#> speed=~x8        1.1800 0.1760 100 0.8378 0.8399 0.8544 1.4831 1.5799 1.5863
#> speed=~x9        1.0815 0.1471 100 0.8191 0.8311 0.8504 1.3683 1.4748 1.4787
#> x1~~x1           0.5491 0.1208 100 0.1037 0.1780 0.2994 0.7663 0.8394 0.8666
#> x2~~x2           1.1338 0.1027 100 0.8460 0.8634 0.9189 1.3104 1.3596 1.3802
#> x3~~x3           0.8443 0.0995 100 0.5798 0.5930 0.6641 1.0363 1.0711 1.0916
#> x4~~x4           0.3712 0.0511 100 0.2393 0.2628 0.2941 0.4665 0.5220 0.5363
#> x5~~x5           0.4463 0.0631 100 0.2838 0.2890 0.3073 0.5609 0.5732 0.5755
#> x6~~x6           0.3562 0.0444 100 0.2154 0.2380 0.2837 0.4464 0.4767 0.4838
#> x7~~x7           0.7994 0.0851 100 0.5323 0.5700 0.6634 0.9386 0.9652 0.9777
#> x8~~x8           0.4877 0.0810 100 0.3112 0.3167 0.3350 0.6437 0.6939 0.7298
#> x9~~x9           0.5661 0.0682 100 0.3506 0.3808 0.4337 0.6795 0.7228 0.7456
#> visual~~visual   0.8093 0.1536 100 0.5273 0.5488 0.5764 1.1090 1.2915 1.3569
#> textual~~textual 0.9795 0.1307 100 0.6387 0.6622 0.7323 1.2193 1.2634 1.2801
#> speed~~speed     0.3837 0.0934 100 0.1844 0.1857 0.2013 0.5523 0.5671 0.5755
#> visual~~textual  0.4082 0.0771 100 0.2089 0.2304 0.2628 0.5460 0.5611 0.5657
#> visual~~speed    0.2622 0.0536 100 0.1066 0.1253 0.1475 0.3602 0.3881 0.3976
#> textual~~speed   0.1735 0.0402 100 0.0411 0.0640 0.1030 0.2439 0.2526 0.2567
#> Standardized Monte Carlo Confidence Intervals
#>
#>      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.4236 0.0650 100 0.2509 0.2620 0.2953 0.5242 0.6120 0.6386
#> visual=~x3      0.5811 0.0554 100 0.4389 0.4398 0.4500 0.6966 0.7028 0.7070
#> textual=~x5      0.8551 0.0243 100 0.7955 0.7983 0.8063 0.9032 0.9073 0.9098
#> textual=~x6      0.8380 0.0259 100 0.7558 0.7588 0.7842 0.8791 0.8900 0.8949
#> speed=~x8        0.7230 0.0587 100 0.5937 0.5981 0.6059 0.8020 0.8238 0.8324
#> speed=~x9        0.6650 0.0491 100 0.5448 0.5552 0.5717 0.7406 0.7582 0.7709
#> x1~~x1           0.4042 0.0898 100 0.0712 0.1235 0.2207 0.5606 0.5927 0.5994
#> x2~~x2           0.8206 0.0556 100 0.5920 0.6245 0.7252 0.9128 0.9312 0.9370
#> x3~~x3           0.6623 0.0640 100 0.5002 0.5060 0.5147 0.7974 0.8066 0.8074
#> x4~~x4           0.2748 0.0425 100 0.1580 0.1777 0.2133 0.3591 0.4030 0.4235
#> x5~~x5           0.2689 0.0416 100 0.1723 0.1768 0.1842 0.3499 0.3626 0.3672
#> x6~~x6           0.2977 0.0430 100 0.1992 0.2079 0.2272 0.3850 0.4243 0.4288
#> x7~~x7           0.6757 0.0655 100 0.5239 0.5407 0.5688 0.7978 0.8214 0.8217
#> x8~~x8           0.4772 0.0831 100 0.3072 0.3213 0.3567 0.6329 0.6423 0.6475
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#> x9~~x9          0.5578 0.0645 100 0.4057 0.4249 0.4515 0.6732 0.6916 0.7031
#> 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 0.0660 100 0.2926 0.3085 0.3299 0.5822 0.6343 0.6741
#> visual~~speed    0.4705 0.0742 100 0.3023 0.3147 0.3534 0.6210 0.7154 0.7849
#> textual~~speed   0.2830 0.0630 100 0.1064 0.1288 0.1606 0.3874 0.4118 0.4290
#> Monte Carlo Confidence Intervals
#> Standardized Monte Carlo Confidence Intervals

#> test-semmcci-npd

#> Test passed
#> Test passed
#> Test passed
#> Test passed
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#>
#>
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#>
#>
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#>
#> [[1]][[3]]$visible
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#>
#>

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#> [[1]][[4]]
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#>
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#> [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  0.4215 20000   3.8325   4.1224   4.3893
#> alien67=~powerless67  0.9787  0.0608 20000   0.7720   0.8221   0.8586
#> alien71=~powerless71  0.9221  0.0588 20000   0.7341   0.7723   0.8083
#> alien71~alien67      0.6070  0.0507 20000   0.4419   0.4768   0.5076
#> alien71~ses        -0.2268  0.0518 20000  -0.3942  -0.3579  -0.3279
#> alien67~ses        -0.5750  0.0563 20000  -0.7653  -0.7189  -0.6841
#> anomia67~~anomia71    1.6229  0.3126 20000   0.6212   0.8180   1.0041
#> powerless67~~powerless71  0.3387  0.2612 20000  -0.4803  -0.3328  -0.1750
#> education~~education  2.8013  0.5069 20000   1.1623   1.4808   1.7949
#> sei~~sei          264.5971 18.0767 20000 208.3123 219.0033 229.3231
#> anomia67~~anomia67    4.7307  0.4539 20000   3.2338   3.5504   3.8445
#> powerless67~~powerless67  2.5634  0.4019 20000   1.2726   1.5370   1.7775
#> anomia71~~anomia71    4.3992  0.5104 20000   2.7197   3.0768   3.4047
#> powerless71~~powerless71  3.0699  0.4275 20000   1.6275   1.9719   2.2383
#> ses~~ses           6.7983  0.6460 20000   4.6926   5.1664   5.5421
#> alien67~~alien67      4.8415  0.4685 20000   3.3437   3.6184   3.9125
#> alien71~~alien71      4.0832  0.4032 20000   2.7503   3.0300   3.2810
#>
#>          97.5%      99.5%      99.95%
#> ses=~sei          6.0509  6.2849  6.5757
#> alien67=~powerless67  1.0973  1.1355  1.1801
#> alien71=~powerless71  1.0375  1.0751  1.1170
#> alien71~alien67      0.7059  0.7372  0.7733
#> alien71~ses        -0.1234 -0.0910 -0.0515
#> alien67~ses        -0.4636 -0.4277 -0.3901
#> anomia67~~anomia71    2.2358  2.4308  2.6389
#> powerless67~~powerless71  0.8493  1.0004  1.1598
#> education~~education  3.7930  4.1148  4.4655
#> sei~~sei          300.3985 310.7949 325.0713
#> anomia67~~anomia67    5.6236  5.9100  6.2246
#> powerless67~~powerless67  3.3574  3.6113  3.8475

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#> anomia71~~nomia71      5.3980  5.7022  6.0890
#> powerless71~~powerless71 3.9113  4.1421  4.4958
#> ses~~ses               8.0771  8.4692  8.8594
#> alien67~~alien67       5.7718  6.0397  6.3441
#> alien71~~alien71       4.8746  5.1222  5.3929
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#>
#>
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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 -0.1275 -0.1005 -0.0797 0.0418 0.0585 0.0717
#> b    0.0785 0.0318 2000 -0.0258 -0.0053 0.0167 0.1400 0.1591 0.1749
#> a    0.1115 0.0314 2000 0.0217 0.0324 0.0519 0.1742 0.1892 0.2066
#> y~~y 0.9938 0.0052 2000 0.9688 0.9741 0.9791 0.9992 0.9998 1.0000
#> m~~m 0.9876 0.0072 2000 0.9573 0.9642 0.9696 0.9973 0.9989 0.9995
#> x~~x 1.0000 0.0000 2000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#>
#>
#> [[1]][[10]]$visible
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#>
#> [[1]][[11]]
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#> [[1]][[11]]$value[[1]]
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#>
#> [[1]][[11]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[12]]
#> [[1]][[12]]$value
#> [[1]][[12]]$value[[1]]
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#>
#>
#> [[1]][[12]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[13]]
#> [[1]][[13]]$value
#> [[1]][[13]]$value[[1]]
#> [1] TRUE
#>

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#> [[1]][[16]]
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#> [[1]][[16]]$value[[1]]
#> [[1]][[16]]$value[[1]]$thetahatstar
#>           y1           y2           y3
#> [1,] -0.244825643 -0.8112650455 -0.7555107176
#> [2,] -1.489645645 -3.8624917569 -4.0010789473
#> [3,] -0.928558132 -0.5347081846 -1.4546337074
#> [4,]  2.400160834  2.8787379481  4.5905306403
#> [5,]  1.005636319  2.2616460905  2.5091268686
#> [6,]  2.805581015  3.8480654376  5.6340175100
#> [7,]  1.890969758  3.2404669476  4.1563242035
#> [8,] -0.509707607 -1.4241579947 -1.4259430509
#> [9,]  0.727593019  1.4735348944  1.7250438267
#> [10,] 1.796145538  2.9103955365  3.8549045214
#> [11,] -0.861731751 -0.9312863868 -1.5913868706
#> [12,]  0.786587300 -0.6939681749  0.5957350382
#> [13,]  0.702997874  0.6976925911  1.2638141878
#> [14,]  0.653890909  1.3785860134  1.5804461456
#> [15,] -1.062559037 -1.4463989925 -2.1276803304
#> [16,] -1.073943099 -3.0798183004 -3.0483553506
#> [17,] -1.110210390 -2.4403080532 -2.7386785110
#> [18,]  0.819801830  1.7593860024  1.9986617300
#> [19,] -0.400917220  0.5438632805 -0.1981142454
#> [20,]  1.100583900  1.9234297584  2.4398286609
#> [21,] -1.638500436 -3.2122326466 -3.8258312538
#> [22,]  1.012778564  1.2156073981  1.9375254233
#> [23,]  0.996350966  1.5841649969  2.1215745801
#> [24,]  0.877200416  1.4745336458  1.9121554649
#> [25,]  0.794441507  1.2329787041  1.6749039142
#> [26,]  0.028184881  0.4257356302  0.2714114221
#> [27,]  0.277716904  0.4170361414  0.5777449134
#> [28,] -0.204573084  0.3046522716 -0.0860292081
#> [29,] -1.355686277 -2.4490859370 -3.0496532928
#> [30,] -1.269613546 -2.8065796175 -3.1407163779
#> [31,]  1.976674832  3.4505913396  4.3798069235
#> [32,] -1.672597460 -3.3530522753 -3.9464985455
#> [33,]  1.946173863  3.2310381190  4.2199299915
#> [34,]  0.855896332  1.7921157940  2.0618345025
#> [35,] -0.020829514  0.3447653802  0.1653563717
#> [36,]  0.667993287  2.3561588677  2.1405435287
#> [37,] -2.273093168 -5.2071720699 -5.7242633027
#> [38,] -0.130067038 -0.2363822430 -0.2933731920
#> [39,]  0.750645490  1.6611215421  1.8578925244
#> [40,] -0.213583729 -0.4145011064 -0.4963653136

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#> [41,] -1.005712274 -1.9379452942 -2.3295811936
#> [42,] -0.545921363 -0.7615357423 -1.1033732580
#> [43,] -0.048140719 -0.1540952468 -0.1455469054
#> [44,] 0.908635224 1.4637815006 1.9453870385
#> [45,] -0.112391674 0.0643544311 -0.1044361106
#> [46,] 1.686570023 1.9658903416 3.1941052507
#> [47,] -0.631288032 -0.2934497455 -0.9500556227
#> [48,] -0.343757205 -0.5660174866 -0.7427742298
#> [49,] -0.299007402 -0.3030471559 -0.5410346149
#> [50,] 0.726087543 0.6713299006 1.2779763440
#> [51,] 0.496570647 0.7015731352 1.0085571859
#> [52,] 0.637762626 1.5896911175 1.6774889995
#> [53,] 1.126342012 2.2287755864 2.6414026519
#> [54,] -0.524016845 -1.1505289390 -1.2919337081
#> [55,] -1.530840406 -1.3882268190 -2.6793345258
#> [56,] -1.616032974 -2.4763884791 -3.3894520826
#> [57,] -2.363870218 -3.1752834503 -4.7098473197
#> [58,] -0.646423293 0.3034365121 -0.6376821012
#> [59,] 0.526078871 1.2125802478 1.3289408918
#> [60,] -0.489565057 0.4767384178 -0.3459077785
#> [61,] -1.728356487 -1.0507966089 -2.7383734103
#> [62,] 0.402918389 0.2373836904 0.6341690227
#> [63,] -0.983072205 -1.8219862563 -2.2369970779
#> [64,] -0.914940397 -1.0103208159 -1.7015977665
#> [65,] 0.222139336 1.5774308444 1.1524112964
#> [66,] 0.634604901 1.0949076053 1.3989672471
#> [67,] -0.451540559 -0.4211487367 -0.7967817838
#> [68,] -0.571276766 -1.7669907951 -1.6929763867
#> [69,] -1.821507738 -3.7073771008 -4.3288220678
#> [70,] 1.005430838 1.2297419755 1.9362070570
#> [71,] -2.760535096 -4.1817077981 -5.7630037090
#> [72,] -2.961035121 -2.9928352879 -5.3532486824
#> [73,] -0.173933603 -0.4828239066 -0.4848387085
#> [74,] -2.913749236 -5.7338870205 -6.8154530983
#> [75,] 0.001501506 -1.9088004294 -1.0574319737
#> [76,] 0.377995178 1.3358879348 1.2127141500
#> [77,] 1.386465871 1.8226232617 2.7403742633
#> [78,] 0.413705412 0.8907096062 1.0101887495
#> [79,] -0.573447523 -1.2247282061 -1.3947502420
#> [80,] -0.714979187 -1.0585859406 -1.4790353396
#> [81,] -0.517036201 -0.5656215251 -0.9586298620
#> [82,] 0.170875571 -0.4593900177 -0.0418638744
#> [83,] 1.522857281 1.4750372805 2.7175559023
#> [84,] 0.984305334 2.5478325572 2.6413490723
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#> [1771,] 1.770770413 4.0619091474 4.4623041008
#> [1772,] 1.449579634 2.3199223794 3.0950560276
#> [1773,] 0.354106075 0.6063647608 0.7780701079
#> [1774,] -1.779918447 -4.6602509151 -4.8057661430
#> [1775,] -0.077345602 1.5153730526 0.7445202101
#> [1776,] 1.570455862 2.3922272739 3.2859124083
#> [1777,] -3.553909623 -7.4165647286 -8.5475357216
#> [1778,] 0.924481211 1.6643399850 2.0764482232
#> [1779,] -1.043133686 -3.0676822818 -3.0032016597
#> [1780,] 0.022625779 -0.3295247089 -0.1546585323
#> [1781,] -0.221447723 0.0992098302 -0.2210834919
#> [1782,] 0.508791984 1.0800403328 1.2338303928
#> [1783,] 1.609000179 2.5144774020 3.4018200877
#> [1784,] 0.647506411 1.6410590165 1.7181463342
#> [1785,] -0.951448444 -0.6105191963 -1.5252493968
#> [1786,] -0.343657945 -0.3220002423 -0.6072311009
#> [1787,] 1.196676501 2.0574354682 2.6340217331
#> [1788,] 0.009438446 0.0895215164 0.0614502437
#> [1789,] -2.798104157 -4.6856594110 -6.0895236076
#> [1790,] -0.420268986 0.3319909984 -0.3398257494
#> [1791,] 0.564077948 0.1152047074 0.7673274853
#> [1792,] -1.077590905 -2.0215982839 -2.4656362868
#> [1793,] 0.411001856 -0.0685315094 0.4744788128
#> [1794,] -1.544542132 -0.8508853774 -2.3982182954
#> [1795,] 0.932579466 1.5934440784 2.0472023217

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#> [1796,] -0.552744743 -2.2688213909 -1.9483623012
#> [1797,]  0.118894869 -0.8617591696 -0.3299807828
#> [1798,]  1.065534935  2.3050637464  2.6079142018
#> [1799,]  1.753936937  2.6366015030  3.6503270323
#> [1800,]  0.430150269  1.2665393092  1.2392649012
#> [1801,] -1.312772282 -2.3558783599 -2.9444141138
#> [1802,]  0.237720065 -0.4489065843  0.0473077128
#> [1803,]  0.707902421  0.2558536089  1.0247279212
#> [1804,]  0.163935626 -0.3441077755  0.0134589736
#> [1805,]  0.284125279  0.6254736013  0.7014100895
#> [1806,]  0.048585283  0.8259666795  0.5189617830
#> [1807,] -1.971427863 -4.2245546157 -4.8027812741
#> [1808,]  0.889616998  2.4392395509  2.4630100761
#> [1809,]  0.430881126  1.4384991949  1.3356068022
#> [1810,]  1.291993519  2.7442236791  3.1340188136
#> [1811,]  0.314134080  0.3501489179  0.5860367798
#> [1812,]  1.078002972  0.7603811824  1.7662274399
#> [1813,]  0.032032683  0.4328690586  0.2801683063
#> [1814,]  0.570552136  1.0944337295  1.3188317745
#> [1815,] -2.016631016 -1.8215821708 -3.5255995839
#> [1816,] -1.199622357 -1.4916813442 -2.3237253032
#> [1817,]  0.701343761  0.3208975826  1.0526460879
#> [1818,] -1.603478886 -2.2891174677 -3.2698698196
#> [1819,] -2.991748495 -5.6364033389 -6.8586172216
#> [1820,]  1.604330906  2.4464303974  3.3582343610
#> [1821,]  0.356436867  1.1086479724  1.0597227116
#> [1822,] -0.939597229 -1.6085642592 -2.0643443974
#> [1823,] -0.573220815 -0.4237095547 -0.9499357278
#> [1824,]  1.663778176  2.4598119825  3.4397901136
#> [1825,] -0.271059325 -0.8806333866 -0.8267201093
#> [1826,]  1.320931707  2.4519975417  3.0079308720
#> [1827,] -0.593349128  0.1757196908 -0.6423771891
#> [1828,] -0.910534176 -1.1671612362 -1.7831431657
#> [1829,]  1.514486948  0.8121503191  2.3392437587
#> [1830,] -0.575294558 -0.1918219114 -0.8238337095
#> [1831,] -2.814321495 -3.6612502391 -5.5412420968
#> [1832,]  0.506807014  2.6712189018  2.1143926613
#> [1833,]  1.862478883  3.4425992270  4.2329716160
#> [1834,]  1.831557433  3.1690063231  4.0425805910
#> [1835,]  0.412268885  2.1957590137  1.7326452113
#> [1836,] -1.125375040 -2.1186068244 -2.5790578076
#> [1837,]  0.365854056  0.7996426940  0.8999807620
#> [1838,]  0.159122836  1.5527515382  1.0601350239
#> [1839,] -3.771872171 -7.2137849701 -8.7067962974
#> [1840,] -0.578512531 -0.0248778595 -0.7351994977

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#> [1841,] -0.949912602 -2.4943818158 -2.5687991136
#> [1842,]  1.048960843  2.2052194960  2.5318372689
#> [1843,] -0.599544178 -2.0092394494 -1.8626631331
#> [1844,]  0.078985079  0.5964648365  0.4295057934
#> [1845,]  0.577796217  0.8984346260  1.2190937001
#> [1846,] -0.646073594 -1.1647478270 -1.4520268723
#> [1847,] -1.023841061 -1.1962274177 -1.9405650536
#> [1848,] -0.692837426 -1.1338460988 -1.4931912524
#> [1849,] -0.354426583 -0.0665171988 -0.4788769804
#> [1850,]  0.029594212  0.5960562061  0.3676896181
#> [1851,] -0.996839916 -3.1468503104 -2.9894092138
#> [1852,] -1.994803698 -2.0521238423 -3.6263223386
#> [1853,] -0.786572921 -1.1616921243 -1.6255308805
#> [1854,] -0.924187753 -1.2164965180 -1.8275479135
#> [1855,] -0.159445181  0.1488581718 -0.1162148353
#> [1856,] -0.969580739 -1.1915504882 -1.8703080391
#> [1857,]  0.951640374  2.0173973103  2.3062471790
#> [1858,]  0.849169675  0.9402247534  1.5806826377
#> [1859,]  1.701186060  4.5345716585  4.6378417369
#> [1860,]  0.323799307  0.6032218014  0.7385339757
#> [1861,] -2.191908500 -3.5736604310 -4.7164971107
#> [1862,] -1.726378283 -2.2603235833 -3.4071434614
#> [1863,]  0.144988445  0.4346925963  0.4220338244
#> [1864,]  0.892162157  1.8089905788  2.1164220461
#> [1865,]  0.478593779  2.0712855837  1.7462734601
#> [1866,] -1.023833861 -1.4921744304 -2.1047942775
#> [1867,]  1.708358840  3.0404624357  3.8176179833
#> [1868,] -0.455017320 -1.5559577429 -1.4308887197
#> [1869,]  0.023574048 -1.1741936085 -0.6222319342
#> [1870,]  0.461139219  0.2010879227  0.6866265788
#> [1871,] -1.469973958 -1.9281189035 -2.9030528093
#> [1872,] -2.041505687 -3.9076489376 -4.7142975082
#> [1873,] -0.566040279 -0.9821548537 -1.2508955061
#> [1874,]  0.983710709  1.3153900738  1.9566536083
#> [1875,] -0.729061248 -1.0567512212 -1.4955771897
#> [1876,] -1.373788995 -2.2223898985 -2.9464202032
#> [1877,] -0.168039203  0.7887415770  0.2281770937
#> [1878,]  0.303802966  0.3826455564  0.5911883652
#> [1879,]  1.876096646  3.2293945090  4.1316329969
#> [1880,]  1.047258562  0.6749921615  1.6805024556
#> [1881,] -0.383201345  0.0679194132 -0.4401518303
#> [1882,] -2.205600506 -2.1765642634 -3.9582408832
#> [1883,]  0.711592977  1.0284080374  1.4580653316
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#> [1885,] -0.924900458 -2.2923022108 -2.4254637594

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#> [1886,] 1.231690070 0.5866437082 1.8614550916
#> [1887,] -0.351191666 -0.0890919825 -0.4873711651
#> [1888,] -1.179465907 -2.9009368575 -3.0806684286
#> [1889,] 3.055083971 5.4908160950 6.8568004426
#> [1890,] 0.498741048 1.1655256618 1.2687378590
#> [1891,] 0.709449980 0.8105945613 1.3345156983
#> [1892,] -0.195355831 -0.6814491429 -0.6217804808
#> [1893,] 0.723001864 1.2290437023 1.5836363756
#> [1894,] -1.271217966 -2.2841221375 -2.8527750307
#> [1895,] -2.823008529 -4.5179625758 -6.0275141291
#> [1896,] 0.184077766 -0.8292264399 -0.2306447363
#> [1897,] 0.214558791 0.4554416356 0.5203014754
#> [1898,] -0.980471048 -1.7943986825 -2.2184435397
#> [1899,] 0.432218498 1.3079077928 1.2648017171
#> [1900,] -0.359751512 -1.7958386637 -1.4452180677
#> [1901,] 0.169221375 0.5346056112 0.5076993344
#> [1902,] 0.808341603 1.6884429258 1.9450006244
#> [1903,] -0.020306790 -0.6525071961 -0.3874363276
#> [1904,] 0.685547916 2.1977499307 2.0745234655
#> [1905,] 0.507899142 0.9164231582 1.1419163544
#> [1906,] -1.691474819 -4.3341655861 -4.5145150372
#> [1907,] -2.450754250 -3.7159139587 -5.1182172330
#> [1908,] 0.550874664 0.2813356670 0.8430589858
#> [1909,] 0.847628414 1.8878688917 2.1046635375
#> [1910,] 0.456056080 1.3387897929 1.3116649130
#> [1911,] -0.337843403 0.2205151704 -0.2989071451
#> [1912,] -1.591456974 -3.9517852530 -4.1775897488
#> [1913,] 1.565878458 2.5927576128 3.3914904204
#> [1914,] 1.214878567 1.4445210479 2.3165774968
#> [1915,] 1.658631712 2.7996040934 3.6219429728
#> [1916,] -0.126304233 0.8595770117 0.3195304508
#> [1917,] -1.634703132 -2.6521440439 -3.5102703686
#> [1918,] 0.475210407 0.9361955521 1.1121270200
#> [1919,] -0.865204214 -0.2265309973 -1.2046072269
#> [1920,] 1.428799416 1.9807785492 2.8809328929
#> [1921,] 0.654717946 1.0565230978 1.4027460091
#> [1922,] 1.371506028 2.3631661529 3.0216983168
#> [1923,] -0.924414168 -1.7253117722 -2.1102014112
#> [1924,] -0.456228304 -0.3758205341 -0.7774720514
#> [1925,] 0.678604460 0.8088829752 1.2951021055
#> [1926,] 0.366801450 0.7124433782 0.8527701728
#> [1927,] -0.956488511 -2.2382564322 -2.4348602732
#> [1928,] 0.921946696 1.0416292255 1.7277093354
#> [1929,] 1.779809813 2.9667748640 3.8658223716
#> [1930,] 1.093910151 1.4226121102 2.1535738056

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#> [1931,] -1.241987467 -3.4014528581 -3.4363969636
#> [1932,]  1.679070966  3.5958075574  4.0892898931
#> [1933,]  1.855372791  1.8719740782  3.3524792655
#> [1934,] -1.435967905 -1.2677416525 -2.4941662280
#> [1935,]  1.158374965  0.4749026396  1.7080210371
#> [1936,] -2.453852547 -3.6528287115 -5.0870710758
#> [1937,]  1.170725884  2.1588773969  2.6579578661
#> [1938,] -0.403080204 -0.9245382883 -1.0157128346
#> [1939,]  0.483163264  0.4411037402  0.8472888434
#> [1940,] -3.757975366 -5.9105647497 -7.9662346057
#> [1941,]  1.379836982  2.3094297662  3.0022654027
#> [1942,]  2.042003924  2.7861121165  4.0925128204
#> [1943,]  0.220688516  0.5791850912  0.5966175545
#> [1944,] -0.948986127 -1.9729389522 -2.2782648606
#> [1945,]  0.243492324  0.3787739531  0.5138336471
#> [1946,]  0.481892220  0.9649983175  1.1364434333
#> [1947,]  0.179913375  1.7449473007  1.1927210030
#> [1948,]  1.346905670  2.9220208975  3.3011631579
#> [1949,]  1.484662046  2.1280762400  3.0323365051
#> [1950,]  1.369986658  1.6504876965  2.6242969895
#> [1951,]  1.083955534  1.9252377932  2.4200968123
#> [1952,] -1.122919688 -1.3506751588 -2.1498261112
#> [1953,]  0.575425203  0.7278905118  1.1214922504
#> [1954,] -1.124638579 -2.2894173982 -2.6729321723
#> [1955,] -1.876851325 -2.7580243495 -3.8709833628
#> [1956,]  1.490028485  2.9849005866  3.5145299841
#> [1957,]  0.448112471  1.2708782755  1.2640713459
#> [1958,] -0.849956099 -2.0667039506 -2.2068120830
#> [1959,] -0.610182767 -1.4396779625 -1.5598464584
#> [1960,]  0.517604734  1.0967573589  1.2540969617
#> [1961,]  0.545062714  1.1706186489  1.3293264257
#> [1962,] -0.593712738 -1.5103300964 -1.5785176436
#> [1963,]  0.586419503  0.3872830495  0.9461790373
#> [1964,]  0.225610347  0.0836123057  0.3277328305
#> [1965,] -0.812713502 -0.6475034424 -1.3727744619
#> [1966,] -0.558325144 -0.5189099439 -0.9841933598
#> [1967,] -0.446894554 -2.2994973498 -1.8333931475
#> [1968,]  0.027191201 -2.2655287309 -1.2233667200
#> [1969,]  0.096875664 -1.0134559356 -0.4416236362
#> [1970,] -1.593044310 -1.4356959338 -2.7832448963
#> [1971,] -0.036798934 -1.3683567809 -0.8052682434
#> [1972,] -0.687175272 -1.2863204263 -1.5707475294
#> [1973,]  0.574697923  1.9798603891  1.8153762115
#> [1974,]  0.915762374  0.4613664254  1.3979760516
#> [1975,] -2.500348678 -2.7536916301 -4.6460673671

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#> [1976,] -1.240575637 -2.2469737273 -2.7939488588
#> [1977,]  0.293231037  0.0565267743  0.3970231153
#> [1978,] -0.451204346  0.0703973206 -0.5235750510
#> [1979,]  1.004643990  3.2366459042  3.0489735298
#> [1980,] -0.223621892  0.4031942072 -0.0550960341
#> [1981,]  0.685071652  1.1537265604  1.4945403144
#> [1982,]  0.312068437  0.6273146387  0.7372763361
#> [1983,]  0.757379319  0.9200513200  1.4550265251
#> [1984,] -0.743350732 -1.2944747672 -1.6453225003
#> [1985,] -1.529902705 -2.1134784269 -3.0806495087
#> [1986,] -3.029907857 -6.5305455835 -7.4024126775
#> [1987,]  0.172601517 -0.0096447928  0.2098781151
#> [1988,] -0.251303803  0.6530750136  0.0490585726
#> [1989,] -0.542075849 -0.2283698229 -0.8026932177
#> [1990,]  0.011897499 -1.0050070449 -0.5429008943
#> [1991,]  1.620616526  2.1650690575  3.2223984339
#> [1992,] -0.884584127 -1.9668483872 -2.1945768709
#> [1993,] -1.533899717 -2.5641468621 -3.3357358145
#> [1994,]  0.166925724  0.3893611974  0.4242321359
#> [1995,]  0.279370903  0.6407990221  0.7039864459
#> [1996,] -0.296455190  0.1295412290 -0.2977836167
#> [1997,] -0.510976174 -0.7630728344 -1.0606503422
#> [1998,]  0.461577574  0.6817624462  0.9539274335
#> [1999,]  1.119175423  2.4181128478  2.7375403150
#> [2000,] -0.494486024 -1.4797861930 -1.4378333675
#>
#> [[1]][[16]]$value[[1]]$decomposition
#> [1] "eigen"
#>
#>
#>
#> [[1]][[16]]$visible
#> [1] TRUE

```

Environment

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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/>