

semmcci: Internal Tests

Ivan Jacob Agaloos Pesigan

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 0.0330 2000 -0.1222 -0.1020 -0.0858 0.0445 0.0651 0.0882
#> b     0.0817 0.0336 2000 -0.0147 0.0003 0.0169 0.1453 0.1665 0.1865
#> a     0.1098 0.0302 2000 0.0217 0.0348 0.0488 0.1687 0.1890 0.2049
#> y~~y  1.0476 0.0464 2000 0.8918 0.9328 0.9562 1.1393 1.1714 1.2015
#> m~~m  0.9615 0.0436 2000 0.8329 0.8553 0.8796 1.0467 1.0749 1.0904
#> x~~x  1.0040 0.0452 2000 0.8663 0.8951 0.9175 1.0935 1.1251 1.1412
#> y~1   -0.0038 0.0320 2000 -0.1081 -0.0867 -0.0625 0.0602 0.0819 0.1105
#> m~1   -0.0050 0.0316 2000 -0.1044 -0.0860 -0.0655 0.0599 0.0787 0.1068
#> x~1   -0.0258 0.0327 2000 -0.1203 -0.1055 -0.0883 0.0401 0.0648 0.0947
#> Standardized Monte Carlo Confidence Intervals
#>      est      se      R   0.05%    0.5%    2.5%   97.5%   99.5%  99.95%
#> cp   -0.0194 0.0321 2000 -0.1194 -0.0998 -0.0848 0.0441 0.0636 0.0863
#> b     0.0785 0.0322 2000 -0.0141 0.0003 0.0160 0.1397 0.1587 0.1804
#> a     0.1115 0.0305 2000 0.0209 0.0347 0.0499 0.1703 0.1858 0.2153
#> y~~y  0.9938 0.0054 2000 0.9671 0.9737 0.9786 0.9992 0.9999 1.0000
#> m~~m  0.9876 0.0069 2000 0.9536 0.9655 0.9710 0.9975 0.9988 0.9996
#> 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 0.1022 100 0.3670 0.3731 0.3911 0.7854 0.9073 0.9388
#> visual=~x3      0.7294 0.1117 100 0.4953 0.5007 0.5294 0.9698 0.9948 1.0112
#> textual=~x5      1.1131 0.0640 100 0.9438 0.9493 0.9975 1.2381 1.2549 1.2552
#> textual=~x6      0.9261 0.0546 100 0.7918 0.7985 0.8200 1.0237 1.0720 1.0983
#> speed=~x8        1.1800 0.1803 100 0.7453 0.7727 0.8221 1.4782 1.6230 1.7013
#> speed=~x9        1.0815 0.1401 100 0.7885 0.7971 0.8191 1.3395 1.3602 1.3704
#> x1~~x1           0.5491 0.1202 100 0.1835 0.2618 0.3736 0.8310 0.8463 0.8549
#> x2~~x2           1.1338 0.0914 100 0.8059 0.8519 0.9427 1.2962 1.3159 1.3236
#> x3~~x3           0.8443 0.0899 100 0.6101 0.6335 0.6754 1.0284 1.0882 1.0962
#> x4~~x4           0.3712 0.0466 100 0.2742 0.2777 0.2925 0.4581 0.4787 0.4893
#> x5~~x5           0.4463 0.0616 100 0.2797 0.2924 0.3401 0.5605 0.5878 0.6042
#> x6~~x6           0.3562 0.0417 100 0.2478 0.2564 0.2704 0.4187 0.4254 0.4291
#> x7~~x7           0.7994 0.0820 100 0.6191 0.6255 0.6573 0.9628 0.9755 0.9835
#> x8~~x8           0.4877 0.0835 100 0.2729 0.2760 0.3054 0.6299 0.6641 0.6774
#> x9~~x9           0.5661 0.0728 100 0.4207 0.4260 0.4435 0.7337 0.7639 0.7848
#> visual~~visual   0.8093 0.1499 100 0.3438 0.3828 0.4843 1.0760 1.1248 1.1441
#> textual~~textual 0.9795 0.1086 100 0.7013 0.7098 0.7678 1.1968 1.2257 1.2371
#> speed~~speed     0.3837 0.0804 100 0.2072 0.2089 0.2338 0.5274 0.5474 0.5521
#> visual~~textual  0.4082 0.0685 100 0.1605 0.2053 0.2809 0.5373 0.5490 0.5514
#> visual~~speed    0.2622 0.0532 100 0.0983 0.1230 0.1553 0.3616 0.3862 0.4001
#> textual~~speed   0.1735 0.0471 100 0.0456 0.0617 0.0862 0.2605 0.2689 0.2690
#> Standardized Monte Carlo Confidence Intervals
#>
      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.4236 0.0539 100 0.3089 0.3155 0.3293 0.5296 0.5564 0.5590
#> visual=~x3      0.5811 0.0535 100 0.4638 0.4653 0.4797 0.6793 0.6871 0.6881
#> textual=~x5      0.8551 0.0243 100 0.7821 0.7842 0.8008 0.8930 0.9013 0.9054
#> textual=~x6      0.8380 0.0254 100 0.7789 0.7794 0.7867 0.8816 0.8924 0.8995
#> speed=~x8        0.7230 0.0602 100 0.5539 0.5635 0.5849 0.8155 0.8279 0.8358
#> speed=~x9        0.6650 0.0510 100 0.5069 0.5119 0.5412 0.7443 0.7491 0.7501
#> x1~~x1           0.4042 0.0928 100 0.1380 0.1896 0.2768 0.6130 0.6895 0.7091
#> x2~~x2           0.8206 0.0462 100 0.6876 0.6905 0.7194 0.8916 0.9004 0.9046
#> x3~~x3           0.6623 0.0616 100 0.5265 0.5279 0.5385 0.7698 0.7835 0.7849
#> x4~~x4           0.2748 0.0345 100 0.1857 0.1963 0.2114 0.3440 0.3631 0.3725
#> x5~~x5           0.2689 0.0413 100 0.1802 0.1876 0.2025 0.3587 0.3851 0.3883
#> x6~~x6           0.2977 0.0424 100 0.1909 0.2035 0.2228 0.3811 0.3926 0.3933
#> x7~~x7           0.6757 0.0603 100 0.5441 0.5444 0.5526 0.7889 0.8046 0.8163
#> x8~~x8           0.4772 0.0852 100 0.3014 0.3145 0.3350 0.6578 0.6823 0.6932
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#> x9~~x9          0.5578 0.0655 100 0.4374 0.4388 0.4461 0.7071 0.7379 0.7431
#> 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 0.0738 100 0.2193 0.2709 0.3486 0.6094 0.6630 0.6814
#> visual~~speed    0.4705 0.0815 100 0.2076 0.2575 0.3420 0.6379 0.7087 0.7521
#> textual~~speed   0.2830 0.0742 100 0.0915 0.1125 0.1484 0.4284 0.4684 0.4889
#> 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
#> [[1]][[2]]$value[[1]]
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#>
#> [[1]][[2]]$visible
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#> [[1]][[3]]
#> [[1]][[3]]$value
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#>
#>
#> [[1]][[3]]$visible
#> [1] TRUE
#>
#>

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#> [[1]][[4]]
#> [[1]][[4]]$value
#> [[1]][[4]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[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  0.4231 20000   3.8702   4.1205   4.3838
#> alien67=~powerless67  0.9787  0.0613 20000   0.7808   0.8198   0.8587
#> alien71=~powerless71  0.9221  0.0594 20000   0.7238   0.7693   0.8045
#> alien71~alien67      0.6070  0.0507 20000   0.4416   0.4733   0.5071
#> alien71~ses        -0.2268  0.0520 20000  -0.4009  -0.3645  -0.3280
#> alien67~ses        -0.5750  0.0565 20000  -0.7654  -0.7168  -0.6841
#> anomia67~~anomia71    1.6229  0.3126 20000   0.6091   0.7998   1.0119
#> powerless67~~powerless71  0.3387  0.2607 20000  -0.5118  -0.3364  -0.1686
#> education~~education  2.8013  0.5062 20000   1.1483   1.5040   1.8075
#> sei~~sei          264.5971 18.0433 20000 205.0605 218.1884 229.2458
#> anomia67~~anomia67    4.7307  0.4494 20000   3.2021   3.5658   3.8488
#> powerless67~~powerless67  2.5634  0.3988 20000   1.1948   1.5288   1.7798
#> anomia71~~anomia71    4.3992  0.5121 20000   2.7945   3.0707   3.3898
#> powerless71~~powerless71  3.0699  0.4355 20000   1.6671   1.9443   2.2208
#> ses~~ses           6.7983  0.6465 20000   4.7286   5.1402   5.5337
#> alien67~~alien67      4.8415  0.4656 20000   3.3330   3.6494   3.9292
#> alien71~~alien71      4.0832  0.4049 20000   2.7075   3.0253   3.2878
#>
#>          97.5%      99.5%      99.95%
#> ses=~sei          6.0552  6.3010  6.6101
#> alien67=~powerless67  1.0996  1.1372  1.1830
#> alien71=~powerless71  1.0377  1.0758  1.1136
#> alien71~alien67      0.7060  0.7393  0.7754
#> alien71~ses        -0.1256 -0.0928 -0.0551
#> alien67~ses        -0.4636 -0.4284 -0.3928
#> anomia67~~anomia71    2.2370  2.4454  2.6537
#> powerless67~~powerless71  0.8557  1.0157  1.2143
#> education~~education  3.7870  4.1164  4.4295
#> sei~~sei          300.0032 311.6149 322.5260
#> anomia67~~anomia67    5.6213  5.8750  6.2062
#> powerless67~~powerless67  3.3458  3.5928  3.9773

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#> anomia71~~nomia71      5.4068  5.7360  6.0706
#> powerless71~~powerless71 3.9268  4.1946  4.4863
#> ses~~ses              8.0790  8.4743  8.9134
#> alien67~~alien67      5.7523  6.0484  6.3656
#> alien71~~alien71      4.8792  5.1203  5.4480
#>
#>
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#>
#> [[1]][[6]]
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#>
#> [[1]][[6]]$visible
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#>
#>
#> [[1]][[7]]
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#> [[1]][[7]]$value[[1]]
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#>
#> [[1]][[7]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$value
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#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
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#>

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#>
#> [[1]][[9]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[10]]
#> [[1]][[10]]$value
#> [[1]][[10]]$value[[1]]
#>      est      se    R   0.05%    0.5%    2.5%  97.5%  99.5% 99.95%
#> cp  -0.0194 0.0321 2000 -0.1194 -0.0998 -0.0848 0.0441 0.0636 0.0863
#> b    0.0785 0.0322 2000 -0.0141 0.0003 0.0160 0.1397 0.1587 0.1804
#> a    0.1115 0.0305 2000 0.0209 0.0347 0.0499 0.1703 0.1858 0.2153
#> y~~y 0.9938 0.0054 2000 0.9671 0.9737 0.9786 0.9992 0.9999 1.0000
#> m~~m 0.9876 0.0069 2000 0.9536 0.9655 0.9710 0.9975 0.9988 0.9996
#> x~~x 1.0000 0.0000 2000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#>
#>
#> [[1]][[10]]$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]][[13]]$visible
#> [1] TRUE
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#>
#> [[1]][[14]]
#> [[1]][[14]]$value
#> [[1]][[14]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[14]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[15]]
#> [[1]][[15]]$value
#> [[1]][[15]]$value[[1]]
#>
#> 2.5% 97.5%
#> visual=~x2 0.3293116 0.5295767
#> visual=~x3 0.4797341 0.6792964
#> textual=~x5 0.8007801 0.8930324
#> textual=~x6 0.7867239 0.8816135
#> speed=~x8 0.5849301 0.8154522
#> speed=~x9 0.5411969 0.7442755
#> x1~~x1 0.2767596 0.6130349
#> x2~~x2 0.7194209 0.8915532
#> x3~~x3 0.5385350 0.7698463
#> x4~~x4 0.2113937 0.3439561
#> x5~~x5 0.2024873 0.3586959
#> x6~~x6 0.2227567 0.3810626
#> x7~~x7 0.5526350 0.7889195
#> x8~~x8 0.3350285 0.6577835
#> x9~~x9 0.4460532 0.7071045
#> visual~~visual 1.0000000 1.0000000
#> textual~~textual 1.0000000 1.0000000
#> speed~~speed 1.0000000 1.0000000
#> visual~~textual 0.3485723 0.6094405
#> visual~~speed 0.3419973 0.6378693
#> textual~~speed 0.1484415 0.4283790
#>
#>
#> [[1]][[15]]$visible
#> [1] TRUE
#>
#>
```



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#> [[1]][[16]]
#> [[1]][[16]]$value
#> [[1]][[16]]$value[[1]]
#> [[1]][[16]]$value[[1]]$thetahatstar
#>           y1           y2           y3
#> [1,] -0.3183440919 -1.341665124 -1.141536561
#> [2,] -0.1204849317 -1.062313769 -0.739781917
#> [3,] -0.3344019320 -1.477630111 -1.237015235
#> [4,]  0.9669857568  2.012769400  2.322814263
#> [5,] -1.0957051249 -2.421758144 -2.710296319
#> [6,] -0.3952096242 -1.541376647 -1.348217845
#> [7,]  0.4020809243  1.411028570  1.284448491
#> [8,] -0.4397454588 -0.745302807 -0.961965471
#> [9,]  0.0973079146 -0.492196237 -0.151807320
#> [10,] 1.7256353032  1.826756897  3.165605622
#> [11,] -0.6133128713 -1.333897391 -1.505045846
#> [12,]  0.3971485950  1.418403979  1.282391020
#> [13,] -2.3055665366 -4.065925703 -5.131412980
#> [14,] -0.2302477086  0.266347009 -0.139302758
#> [15,]  0.2872201061 -0.456147774  0.105014698
#> [16,]  1.0127268589  1.649012268  2.177982505
#> [17,]  1.2970622541  2.851550187  3.199901141
#> [18,]  1.4125413021  4.154959139  4.067238556
#> [19,] -0.3342783632 -1.400018759 -1.193790096
#> [20,]  0.3225937506  0.509810742  0.685191444
#> [21,] -0.3933951790 -1.537742122 -1.343938260
#> [22,]  0.9920853009  2.456535130  2.600384283
#> [23,]  2.2152930339  3.211260610  4.544540419
#> [24,] -0.5940005384 -0.330467360 -0.924102105
#> [25,] -1.4122663556 -3.220872691 -3.548516833
#> [26,]  0.0041215374  0.309891938  0.177116524
#> [27,] -0.7147657396 -0.358247191 -1.090110491
#> [28,]  1.8857709955  3.926084077  4.530330255
#> [29,]  1.0621722753  1.025833255  1.893801670
#> [30,] -2.2655625235 -3.286209722 -4.648819067
#> [31,]  0.4976667527  0.231976694  0.749317643
#> [32,]  1.6300010798  2.668363804  3.513408293
#> [33,] -0.1452017312  0.031295462 -0.163695926
#> [34,]  1.7800001969  1.736567902  3.183346420
#> [35,] -0.0889426888 -0.709323949 -0.504554813
#> [36,]  0.2657252436  0.125848008  0.401194334
#> [37,] -0.1553524474 -0.217296416 -0.314311747
#> [38,] -0.3741197419 -0.515172523 -0.752418869
#> [39,]  0.8575881113  0.401607308  1.292270125
#> [40,] -0.3095349799 -0.715628749 -0.783127800

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```

#> [41,] 0.4261158549 -0.850428650 0.059405485
#> [42,] -0.0522083516 1.617363493 0.832466273
#> [43,] -0.3651879895 -0.356682932 -0.653326068
#> [44,] -0.2030143986 0.003518004 -0.251202469
#> [45,] 0.9638146810 0.933846594 1.720103010
#> [46,] -0.8455567054 -0.715767307 -1.451612853
#> [47,] 0.4748159390 0.320750153 0.770088697
#> [48,] -0.2701602927 -1.707819450 -1.284652667
#> [49,] 0.6562335574 1.613162486 1.713547501
#> [50,] 1.1723686823 2.410046886 2.799394953
#> [51,] 0.1309833493 0.914273105 0.670716859
#> [52,] 0.1879036047 0.765152678 0.658939664
#> [53,] 1.2350830692 2.388383983 2.865576510
#> [54,] -0.9041842260 -0.945227138 -1.652060775
#> [55,] 1.0858308618 3.004903564 3.021604607
#> [56,] -1.1279031594 0.246371338 -1.269746457
#> [57,] -0.6390271859 -1.320570986 -1.529715475
#> [58,] -0.2789943124 0.569832726 -0.031666912
#> [59,] 1.6035658400 2.801827787 3.554511011
#> [60,] -0.3140885439 0.015985889 -0.382790509
#> [61,] 0.0507077292 0.071792296 0.103073222
#> [62,] -0.5250773352 -0.172884190 -0.750704214
#> [63,] -0.2550037898 0.667615633 0.052514200
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#> [1769,] -1.5783065009 -1.470931059 -2.784421168
#> [1770,] -0.6829054159 -1.682560197 -1.785319589
#> [1771,] -0.5397556324 -1.068546870 -1.266063040
#> [1772,] -1.8739857341 -3.464084698 -4.259243961
#> [1773,] 1.7877497313 3.319073495 4.071234278
#> [1774,] -1.3636521911 -2.598348084 -3.142420868
#> [1775,] -0.6765160325 -0.042595409 -0.867240363
#> [1776,] 0.5883803125 1.340900483 1.477841876
#> [1777,] -0.5281736641 -2.155463651 -1.854813868
#> [1778,] -0.9850138310 -0.209361131 -1.344478819
#> [1779,] 0.8176601508 0.929195093 1.535269904
#> [1780,] 0.2400302880 1.593962758 1.183895468
#> [1781,] 0.8103566989 0.816269201 1.463493506
#> [1782,] -1.5563841684 -3.368639189 -3.810233026
#> [1783,] 0.6733068195 -0.465094205 0.581492060
#> [1784,] -1.5993257312 -2.956371828 -3.634989154
#> [1785,] -0.0469959943 -1.398081826 -0.834479925
#> [1786,] 0.4944043660 1.672329536 1.544585036
#> [1787,] 0.4369615581 2.161862344 1.744625239
#> [1788,] -0.0535031625 -1.846531715 -1.091465144
#> [1789,] 0.7512656065 0.305180400 1.106175233
#> [1790,] -2.0183569428 -2.814578043 -4.078822914
#> [1791,] -1.0173099247 0.001405247 -1.267784873
#> [1792,] 1.0824248816 2.292201442 2.621837581
#> [1793,] -0.6156351774 -1.056507855 -1.354002135
#> [1794,] -1.3664218836 -1.946025349 -2.783862812
#> [1795,] -0.6182442616 -1.476449890 -1.590305857

```



```

#> [1796,] 0.5457969153 0.090942954 0.731067153
#> [1797,] -0.1657899919 -0.447019147 -0.454813649
#> [1798,] -0.7142143645 -1.507093173 -1.726984357
#> [1799,] 2.6755789013 4.521281650 5.845514337
#> [1800,] -0.2803987408 1.330247139 0.388579957
#> [1801,] 1.3825092444 2.000459133 2.834131894
#> [1802,] -1.1723176721 -2.194705198 -2.679825723
#> [1803,] -1.1111279457 -0.725590465 -1.788226215
#> [1804,] -0.6965353404 -1.514151669 -1.708856144
#> [1805,] 1.2721857802 2.397977363 2.917166758
#> [1806,] 0.0158147466 -0.330630368 -0.163765345
#> [1807,] 0.5297935489 1.114045453 1.278890333
#> [1808,] -0.4880256848 -1.558842059 -1.473650152
#> [1809,] 0.9103996821 1.818479595 2.144429874
#> [1810,] 1.9858261951 3.387100994 4.355984003
#> [1811,] -0.9768822964 -1.429689778 -2.011570268
#> [1812,] -0.4167369162 0.286521850 -0.360654804
#> [1813,] 0.0862022440 0.004615578 0.110053892
#> [1814,] 1.5824422395 2.211861686 3.200763827
#> [1815,] 1.4008764313 2.651696299 3.218444762
#> [1816,] 0.8685354827 0.649677019 1.443589577
#> [1817,] -0.4898337248 -1.075997408 -1.207946176
#> [1818,] -0.1423206817 0.488651955 0.093710389
#> [1819,] 0.7265451638 1.466464974 1.719813663
#> [1820,] -0.3468821384 1.232764259 0.251577599
#> [1821,] 0.0687587811 -0.166498240 -0.006658755
#> [1822,] -0.0195448555 -1.597069052 -0.910678494
#> [1823,] 1.8542829760 4.585822658 4.857192627
#> [1824,] -3.3993022372 -6.229980629 -7.696238970
#> [1825,] -1.5913777755 -2.120731956 -3.161333073
#> [1826,] 0.4228278241 -0.335781600 0.340912943
#> [1827,] -1.4823930459 -2.907721091 -3.462177358
#> [1828,] 0.6812948533 1.087380671 1.453011532
#> [1829,] -1.0451777992 -2.402184883 -2.636427433
#> [1830,] 0.1632155268 -1.023108545 -0.364255974
#> [1831,] -0.1566517613 -0.117185695 -0.260374705
#> [1832,] -0.8699668596 -1.644704288 -1.997572949
#> [1833,] 1.3852226454 2.296539254 3.001827520
#> [1834,] -0.2468086714 -1.330255363 -1.046001410
#> [1835,] -0.9916239487 -1.585562007 -2.116455368
#> [1836,] 1.4865069559 3.412543644 3.747462701
#> [1837,] 0.5749629699 1.356747128 1.469904948
#> [1838,] 1.0130264535 1.181983484 1.919174672
#> [1839,] -0.2854862267 -0.018439385 -0.366228588
#> [1840,] -1.4829679924 -2.740717615 -3.370214368

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#> [1841,] 0.5874842323 1.636933517 1.641010422
#> [1842,] -0.7038220123 -1.440430698 -1.677030424
#> [1843,] -0.8806658796 -2.249891313 -2.346767870
#> [1844,] 0.6874432564 1.360031643 1.611988339
#> [1845,] 0.2794423394 1.214689166 1.022560528
#> [1846,] -0.2258222479 -0.644951910 -0.639517044
#> [1847,] -0.9982643163 -1.862357379 -2.278345614
#> [1848,] 0.4081619584 2.130233989 1.691160312
#> [1849,] 0.5076280660 1.258355671 1.331336557
#> [1850,] -1.1413062497 -1.580259203 -2.300163310
#> [1851,] 0.2460931428 0.251739814 0.446578187
#> [1852,] -0.1141881130 -0.240307707 -0.275750964
#> [1853,] 0.5807721766 1.264212371 1.425795995
#> [1854,] -0.5499986945 -1.874775056 -1.726258817
#> [1855,] -0.2728961223 0.660190024 0.026081924
#> [1856,] 0.0064533834 -0.755648827 -0.411306224
#> [1857,] 0.6072650098 0.024454810 0.770818477
#> [1858,] 1.2620668251 0.848617101 2.044718551
#> [1859,] -1.3667270977 -0.316773519 -1.880076855
#> [1860,] -0.2199762240 -0.457851365 -0.528394203
#> [1861,] 0.7582257036 0.681061445 1.323452575
#> [1862,] 0.8751468911 2.844629650 2.669940681
#> [1863,] 0.1038565976 2.049143763 1.266696054
#> [1864,] -0.9205850545 -2.432340976 -2.497798191
#> [1865,] -1.2125221760 -2.011309170 -2.628182802
#> [1866,] 0.4723008473 1.475236336 1.407643925
#> [1867,] -2.0584157356 -4.350786048 -4.981306537
#> [1868,] -0.2196013735 -0.578658234 -0.594969526
#> [1869,] 0.3673265466 1.101713575 1.069453619
#> [1870,] 0.0490349837 -0.447186349 -0.187024077
#> [1871,] -0.1730906434 -0.037365238 -0.236576645
#> [1872,] -0.9115289184 -0.898988096 -1.635558724
#> [1873,] 1.0692673832 2.093331036 2.495065699
#> [1874,] -0.8323342296 -2.441777780 -2.392988244
#> [1875,] 0.0588616569 -0.543282786 -0.228099914
#> [1876,] 1.9673901966 2.717995289 3.961669036
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#> [1878,] -0.1282826702 -2.166739373 -1.362415508
#> [1879,] -0.6561503382 -0.790852013 -1.257095845
#> [1880,] 0.4074651867 1.244356716 1.198666656
#> [1881,] -2.4565575073 -4.782982802 -5.717632309
#> [1882,] 0.7602497607 -0.104938234 0.889779619
#> [1883,] 0.1374660203 1.424959698 0.962210296
#> [1884,] -0.4475192928 -2.497102699 -1.943834880
#> [1885,] -0.2729276907 -0.218047768 -0.461342645

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#> [1886,] 0.6897962917 1.783476028 1.849916432
#> [1887,] -1.5345230355 -2.129398107 -3.095245723
#> [1888,] 1.5148442627 1.405568395 2.669011510
#> [1889,] 0.7723775809 0.392753752 1.181100979
#> [1890,] 2.1306026538 2.890372184 4.260853601
#> [1891,] 0.6870117714 1.040882689 1.434335979
#> [1892,] 4.2855407331 7.562038972 9.540596908
#> [1893,] 0.7376036642 2.062499407 2.064377543
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#> [1895,] -2.0129554949 -2.711965609 -4.015141814
#> [1896,] -0.0422483559 0.338045302 0.134918151
#> [1897,] -0.2381813733 -0.233791630 -0.426751881
#> [1898,] -0.7115119966 -0.281385938 -1.043398362
#> [1899,] 0.2917133057 0.342505467 0.553836736
#> [1900,] -0.7094926760 -2.019428348 -2.005421080
#> [1901,] 0.3524941141 0.544458032 0.741704383
#> [1902,] 1.9762414602 3.464525276 4.386999269
#> [1903,] 0.1652685438 -0.280247995 0.050560599
#> [1904,] 0.5730861344 1.546623467 1.572937991
#> [1905,] -1.4914969567 -2.282178982 -3.126380069
#> [1906,] 0.4923971022 0.357091920 0.812180208
#> [1907,] 1.0224413804 1.145526919 1.910683027
#> [1908,] 0.5534333397 -1.4144460094 -0.094846045
#> [1909,] -0.8210710848 -1.195553034 -1.687340774
#> [1910,] -0.3025895811 -0.336646362 -0.564147672
#> [1911,] -0.0617280103 -1.227988575 -0.758455816
#> [1912,] -2.1910392049 -2.215295285 -3.961577333
#> [1913,] 1.7320620266 3.643678288 4.181934916
#> [1914,] 0.0963230133 0.601610013 0.453981202
#> [1915,] 1.0881195130 1.336834217 2.098749859
#> [1916,] -1.1600357837 -2.377058364 -2.765708832
#> [1917,] 0.0298232722 -1.101521613 -0.574109365
#> [1918,] -0.6156452046 -1.922839165 -1.834792245
#> [1919,] -0.8017057289 -1.263878683 -1.701110445
#> [1920,] 0.9278940164 1.409672976 1.939374395
#> [1921,] 1.2524070968 1.948534858 2.643081371
#> [1922,] 0.6458978470 1.190343953 1.466012498
#> [1923,] 0.8481925897 1.508468143 1.894815522
#> [1924,] -1.2166935227 -1.516187427 -2.358612549
#> [1925,] -2.5421512171 -4.216772226 -5.510142755
#> [1926,] 1.1150328238 2.184085268 2.602499070
#> [1927,] 0.1491296271 -0.846101917 -0.283589536
#> [1928,] 1.2881742988 1.312072132 2.334472176
#> [1929,] -0.8919141549 -2.212059046 -2.339798916
#> [1930,] -0.4605528649 -1.932984775 -1.647025649

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#> [1931,] -0.1025014779 -0.445288384 -0.374933662
#> [1932,]  0.3219274266 -0.274890924  0.248883981
#> [1933,] -0.4310086549 -0.726500500 -0.940636362
#> [1934,] -0.5068477054 -0.364024134 -0.834046904
#> [1935,]  1.4334193293  2.613617068  3.237892713
#> [1936,] -0.7963922573 -1.512625065 -1.832528482
#> [1937,]  0.7612147923  0.626183952  1.296725197
#> [1938,] -0.7201741319 -0.968660931 -1.435608715
#> [1939,]  0.0016272536  0.967633521  0.539025244
#> [1940,] -0.1551103326 -1.171264116 -0.843421967
#> [1941,] -0.3851777579 -0.369486206 -0.685358182
#> [1942,]  0.2911997939  0.454183399  0.615172974
#> [1943,] -0.0482869602  0.329409548  0.122595653
#> [1944,] -0.9872314727 -1.741470833 -2.197500911
#> [1945,]  0.9895600230  1.874800322  2.274396850
#> [1946,]  0.8595933054  1.366060578  1.830001746
#> [1947,]  2.4605727169  3.596192976  5.064020528
#> [1948,] -0.7834872635  0.026562208 -0.962251724
#> [1949,] -0.7641993479 -1.000388173 -1.508114552
#> [1950,] -1.5688587886 -2.092895184 -3.117804112
#> [1951,]  0.5003657734  2.256742180  1.876343339
#> [1952,] -1.3073948768 -1.169207199 -2.279155789
#> [1953,]  1.0118392815  1.306303670  1.986686791
#> [1954,] -1.2456074602 -2.097990132 -2.717543782
#> [1955,] -1.3814717241 -4.020546938 -3.953902282
#> [1956,]  3.3468829464  6.716928584  7.901108910
#> [1957,] -0.0754708883 -0.118635888 -0.159948609
#> [1958,]  0.0462167012 -0.613854364 -0.283032188
#> [1959,] -2.3563788618 -3.942248783 -5.126139400
#> [1960,] -1.0463135953 -2.534913930 -2.711502812
#> [1961,]  0.0499422738 -0.219534540 -0.059555481
#> [1962,] -0.5017080362 -0.805669414 -1.072732481
#> [1963,]  0.6922888709  1.041906982  1.441484854
#> [1964,]  1.1242680809  0.162715292  1.492239540
#> [1965,]  0.3138361165  0.182920297  0.492860342
#> [1966,]  0.4782971200 -0.244545032  0.460714499
#> [1967,]  1.7523632234  3.173731135  3.946449101
#> [1968,] -0.4313039427 -0.612476243 -0.877725891
#> [1969,] -0.6611775716 -1.520250743 -1.668150459
#> [1970,]  1.5954107715  1.749277641  2.960220544
#> [1971,] -1.3696764089 -1.390442050 -2.479595668
#> [1972,] -0.1766176243 -1.679398458 -1.152234407
#> [1973,]  0.5960123349  1.739619482  1.708631204
#> [1974,] -0.9987929833 -1.567612143 -2.115433585
#> [1975,]  0.7559311281  0.388255052  1.158095997

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#> [1976,] -2.6776447608 -3.449579989 -5.253340870
#> [1977,]  0.1940436092  0.275314083  0.394756212
#> [1978,] -1.1666802145 -1.942084779 -2.532602173
#> [1979,] -1.9007426126 -2.634093487 -3.831998871
#> [1980,]  1.5839494167  3.768792805  4.066674831
#> [1981,] -0.0219703974  0.114465015  0.036126653
#> [1982,]  1.6249755000  2.779910369  3.569045171
#> [1983,] -0.4883569230 -0.990803618 -1.158825648
#> [1984,] -1.9992226167 -3.792060133 -4.597424435
#> [1985,] -0.0945683882 -0.171182477 -0.212923959
#> [1986,] -1.2639554021 -1.071776131 -2.170917486
#> [1987,]  0.3853774895  1.348129367  1.228713225
#> [1988,] -1.2650481162 -2.025838405 -2.701744696
#> [1989,] -1.5572845787 -3.398214333 -3.827768786
#> [1990,] -1.0429951687 -1.563930545 -2.168509676
#> [1991,] -0.3528672996 -1.483048874 -1.263048358
#> [1992,] -0.1035865741 -1.396205245 -0.904005800
#> [1993,]  0.5706303921  0.270121217  0.861470426
#> [1994,] -1.1213400659 -2.802578810 -2.953602093
#> [1995,]  0.5097844324  0.666830631  1.005753871
#> [1996,]  1.1489179991  1.320241288  2.165355950
#> [1997,]  0.5284875740  0.563772866  0.971883562
#> [1998,] -0.4725445565 -0.506413641 -0.870291792
#> [1999,]  0.9601441599  0.100099867  1.252831419
#> [2000,] -0.2132212116 -0.670353168 -0.637900444
#>
#> [[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/>