

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 0.0326 2000 -0.1192 -0.1003 -0.0837 0.0437 0.0631 0.0728
#> b    0.0817 0.0333 2000 -0.0221 -0.0042  0.0148 0.1463 0.1670 0.2007
#> a    0.1098 0.0313 2000  0.0131  0.0273  0.0468 0.1707 0.1936 0.2160
#> y~~y  1.0476 0.0470 2000  0.8985  0.9236  0.9540 1.1356 1.1573 1.1881
#> m~~m  0.9615 0.0425 2000  0.8208  0.8567  0.8775 1.0430 1.0682 1.0871
#> x~~x  1.0040 0.0455 2000  0.8676  0.8810  0.9103 1.0941 1.1168 1.1481
#> y~1  -0.0038 0.0336 2000 -0.1066 -0.0879 -0.0678 0.0615 0.0809 0.1116
#> m~1  -0.0050 0.0319 2000 -0.1107 -0.0910 -0.0652 0.0582 0.0811 0.1092
#> x~1  -0.0258 0.0323 2000 -0.1251 -0.1062 -0.0871 0.0376 0.0573 0.0898
#> 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 -0.1206 -0.0983 -0.0816 0.0431 0.0611 0.0697
#> b    0.0785 0.0318 2000 -0.0214 -0.0038  0.0144 0.1400 0.1597 0.1884
#> a    0.1115 0.0315 2000  0.0131  0.0280  0.0473 0.1738 0.1931 0.2163
#> y~~y  0.9938 0.0053 2000  0.9645  0.9734  0.9791 0.9993 0.9999 1.0000
#> m~~m  0.9876 0.0072 2000  0.9532  0.9627  0.9698 0.9978 0.9992 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-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 0.1036 100 0.3008 0.3284 0.3880 0.8057 0.8658 0.8982
#> visual=~x3      0.7294 0.1185 100 0.4139 0.4404 0.5170 0.9494 1.0155 1.0268
#> textual=~x5      1.1131 0.0699 100 0.9404 0.9510 0.9872 1.2529 1.2843 1.2938
#> textual=~x6      0.9261 0.0612 100 0.7396 0.7688 0.8248 1.0560 1.0838 1.0942
#> speed=~x8       1.1800 0.1717 100 0.7683 0.7749 0.8357 1.5249 1.5726 1.5871
#> speed=~x9       1.0815 0.1495 100 0.5918 0.6655 0.7607 1.3327 1.3898 1.4148
#> x1~~x1          0.5491 0.1069 100 0.2513 0.2907 0.3557 0.7419 0.7876 0.8036
#> x2~~x2          1.1338 0.1116 100 0.8288 0.8629 0.9575 1.3492 1.4109 1.4618
#> x3~~x3          0.8443 0.0903 100 0.6320 0.6547 0.6904 1.0019 1.0243 1.0264
#> x4~~x4          0.3712 0.0531 100 0.2451 0.2511 0.2617 0.4791 0.4862 0.4869
#> x5~~x5          0.4463 0.0650 100 0.2526 0.2893 0.3445 0.5575 0.6255 0.6631
#> x6~~x6          0.3562 0.0434 100 0.1985 0.2070 0.2530 0.4218 0.4531 0.4586
#> x7~~x7          0.7994 0.0767 100 0.5685 0.5905 0.6413 0.9335 0.9652 0.9855
#> x8~~x8          0.4877 0.0775 100 0.2793 0.2935 0.3355 0.6566 0.6751 0.6762
#> x9~~x9          0.5661 0.0745 100 0.4266 0.4313 0.4443 0.7022 0.7369 0.7375
#> visual~~visual  0.8093 0.1483 100 0.5234 0.5238 0.5351 1.1188 1.1460 1.1517
#> textual~~textual 0.9795 0.1227 100 0.7400 0.7405 0.7548 1.2017 1.2596 1.2964
#> speed~~speed    0.3837 0.0849 100 0.2120 0.2285 0.2608 0.5467 0.6259 0.6869
#> visual~~textual  0.4082 0.0677 100 0.2616 0.2781 0.2989 0.5208 0.5521 0.5758
#> visual~~speed    0.2622 0.0571 100 0.1404 0.1409 0.1569 0.3617 0.3921 0.4055
#> textual~~speed   0.1735 0.0495 100 0.0462 0.0572 0.0784 0.2776 0.3056 0.3178
#> Standardized Monte Carlo Confidence Intervals
#>
      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.4236 0.0651 100 0.2744 0.2775 0.2875 0.5561 0.5713 0.5778
#> visual=~x3      0.5811 0.0592 100 0.4092 0.4201 0.4515 0.6733 0.7119 0.7329
#> textual=~x5      0.8551 0.0249 100 0.7941 0.7944 0.8014 0.8957 0.9169 0.9261
#> textual=~x6      0.8380 0.0250 100 0.7521 0.7643 0.7881 0.8877 0.8963 0.9000
#> speed=~x8       0.7230 0.0544 100 0.5839 0.5849 0.6053 0.8104 0.8346 0.8483
#> speed=~x9       0.6650 0.0540 100 0.5171 0.5255 0.5516 0.7396 0.7608 0.7720
#> x1~~x1          0.4042 0.0839 100 0.1821 0.2094 0.2517 0.5608 0.5709 0.5760
#> x2~~x2          0.8206 0.0556 100 0.6661 0.6736 0.6907 0.9173 0.9230 0.9247
#> x3~~x3          0.6623 0.0671 100 0.4627 0.4927 0.5466 0.7961 0.8234 0.8325
#> x4~~x4          0.2748 0.0457 100 0.1658 0.1681 0.1902 0.3663 0.3720 0.3733
#> x5~~x5          0.2689 0.0425 100 0.1423 0.1591 0.1978 0.3577 0.3690 0.3695
#> x6~~x6          0.2977 0.0417 100 0.1900 0.1967 0.2120 0.3789 0.4157 0.4344
#> x7~~x7          0.6757 0.0565 100 0.4931 0.5214 0.5722 0.7642 0.7931 0.8053
#> x8~~x8          0.4772 0.0772 100 0.2803 0.3033 0.3432 0.6335 0.6579 0.6590
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#> x9~~x9          0.5578 0.0697 100 0.4040 0.4211 0.4529 0.6958 0.7237 0.7326
#> 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 0.0638 100 0.2997 0.3145 0.3393 0.6104 0.6258 0.6267
#> visual~~speed    0.4705 0.0737 100 0.2933 0.3125 0.3375 0.6059 0.6330 0.6493
#> textual~~speed   0.2830 0.0694 100 0.0804 0.1031 0.1438 0.4199 0.4593 0.4672
#> Monte Carlo Confidence Intervals
#> Standardized Monte Carlo Confidence Intervals

#> test-semmcci-npd

#> Test passed
#> Test passed
#> Test passed
#> Test passed
#> [[1]]
#> [[1]][[1]]
#> [[1]][[1]]$value
#> [[1]][[1]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
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#>
#> [[1]][[2]]$visible
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#> [[1]][[3]]
#> [[1]][[3]]$value
#> [[1]][[3]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[3]]$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  0.4181 20000   3.8032   4.1442   4.4021
#> alien67=~powerless67  0.9787  0.0618 20000   0.7750   0.8208   0.8574
#> alien71=~powerless71  0.9221  0.0594 20000   0.7237   0.7666   0.8043
#> alien71~alien67      0.6070  0.0512 20000   0.4417   0.4754   0.5063
#> alien71~ses        -0.2268  0.0523 20000  -0.3978  -0.3612  -0.3284
#> alien67~ses        -0.5750  0.0560 20000  -0.7599  -0.7190  -0.6848
#> anomia67~~anomia71    1.6229  0.3134 20000   0.5760   0.8043   1.0090
#> powerless67~~powerless71  0.3387  0.2604 20000  -0.5388  -0.3194  -0.1626
#> education~~education  2.8013  0.5027 20000   1.2254   1.5411   1.8182
#> sei~~sei          264.5971 18.0119 20000 207.4584 218.1195 229.0149
#> anomia67~~anomia67    4.7307  0.4531 20000   3.2641   3.5519   3.8298
#> powerless67~~powerless67  2.5634  0.4038 20000   1.2507   1.5439   1.7821
#> anomia71~~anomia71    4.3992  0.5133 20000   2.7443   3.0699   3.3857
#> powerless71~~powerless71  3.0699  0.4326 20000   1.6558   1.9735   2.2322
#> ses~~ses          6.7983  0.6437 20000   4.5812   5.1337   5.5305
#> alien67~~alien67      4.8415  0.4706 20000   3.3194   3.6144   3.9129
#> alien71~~alien71      4.0832  0.4023 20000   2.7799   3.0468   3.2895
#>
#>          97.5%      99.5%      99.95%
#> ses=~sei          6.0413  6.3057  6.6285
#> alien67=~powerless67  1.0987  1.1377  1.1776
#> alien71=~powerless71  1.0367  1.0732  1.1168
#> alien71~alien67      0.7079  0.7391  0.7744
#> alien71~ses        -0.1237  -0.0912  -0.0536
#> alien67~ses        -0.4655  -0.4327  -0.3889
#> anomia67~~anomia71    2.2379  2.4165  2.6132
#> powerless67~~powerless71  0.8475  1.0128  1.1733
#> education~~education  3.8065  4.1168  4.5252
#> sei~~sei          300.3017 311.5537 324.6052
#> anomia67~~anomia67    5.5986  5.8710  6.2302
#> powerless67~~powerless67  3.3621  3.6175  3.9206

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#> anomia71~~nomia71      5.3878  5.6945  6.0300
#> powerless71~~powerless71 3.9170  4.1863  4.4391
#> ses~~ses               8.0452  8.4334  8.8342
#> alien67~~alien67       5.7709  6.0531  6.3428
#> alien71~~alien71       4.8737  5.1389  5.4144
#>
#>
#> [[1]][[5]]$visible
#> [1] TRUE
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#>
#> [[1]][[6]]
#> [[1]][[6]]$value
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#> [[1]][[6]]$visible
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#>
#>
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#> [[1]][[7]]$value
#> [[1]][[7]]$value[[1]]
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#>
#> [[1]][[7]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$value
#> [[1]][[8]]$value[[1]]
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#>
#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
#> [1] TRUE
#>

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#>
#> [[1]][[9]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[10]]
#> [[1]][[10]]$value
#> [[1]][[10]]$value[[1]]
#>      est      se    R   0.05%    0.5%    2.5%  97.5%  99.5% 99.95%
#> cp  -0.0194 0.0318 2000 -0.1206 -0.0983 -0.0816 0.0431 0.0611 0.0697
#> b    0.0785 0.0318 2000 -0.0214 -0.0038 0.0144 0.1400 0.1597 0.1884
#> a    0.1115 0.0315 2000 0.0131 0.0280 0.0473 0.1738 0.1931 0.2163
#> y~~y 0.9938 0.0053 2000 0.9645 0.9734 0.9791 0.9993 0.9999 1.0000
#> m~~m 0.9876 0.0072 2000 0.9532 0.9627 0.9698 0.9978 0.9992 0.9998
#> x~~x 1.0000 0.0000 2000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#>
#>
#> [[1]][[10]]$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]][[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 0.2875250 0.5561113
#> visual=~x3 0.4514991 0.6733462
#> textual=~x5 0.8013842 0.8956676
#> textual=~x6 0.7880725 0.8877087
#> speed=~x8 0.6053405 0.8104348
#> speed=~x9 0.5515720 0.7396465
#> x1~~x1 0.2516755 0.5607753
#> x2~~x2 0.6907401 0.9173289
#> x3~~x3 0.5465505 0.7961344
#> x4~~x4 0.1902331 0.3663183
#> x5~~x5 0.1977793 0.3577445
#> x6~~x6 0.2119681 0.3789383
#> x7~~x7 0.5722297 0.7642099
#> x8~~x8 0.3431898 0.6334688
#> x9~~x9 0.4529191 0.6957679
#> visual~~visual 1.0000000 1.0000000
#> textual~~textual 1.0000000 1.0000000
#> speed~~speed 1.0000000 1.0000000
#> visual~~textual 0.3392529 0.6103860
#> visual~~speed 0.3375422 0.6059170
#> textual~~speed 0.1437511 0.4199437
#>
#>
#> [[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,] -0.6292492106  0.099489020 -0.729448691
#> [2,]  0.3733157254  0.954859491  0.995424135
#> [3,]  0.5623205948 -0.097486133  0.647101590
#> [4,] -1.8351067683 -2.497862665 -3.674549909
#> [5,]  0.8462728595  0.975742966  1.596781489
#> [6,]  0.2714317144  0.559169182  0.648785296
#> [7,] -2.8196875429 -5.603446923 -6.625771292
#> [8,]  1.4123883539  2.174888886  2.968191744
#> [9,]  1.4038457275  0.799185307  2.194081374
#> [10,] -0.0939947174  0.834955827  0.346156031
#> [11,] -1.2094717669 -0.219207732 -1.629837738
#> [12,] -1.5798640926 -4.152405773 -4.274469652
#> [13,] -0.5793293559 -0.364403278 -0.924640453
#> [14,]  0.7444762566  0.914772388  1.436007083
#> [15,] -0.5250500137 -0.577411278 -0.975165742
#> [16,] -1.0738810942 -0.176280777 -1.436936272
#> [17,] -2.1885560201 -3.804765517 -4.840570283
#> [18,] -1.4444593450 -1.580425157 -2.678281135
#> [19,]  0.0673674040  0.210680457  0.200924611
#> [20,] -0.2475165522 -1.416098136 -1.094523269
#> [21,]  1.3389616121  2.193927376  2.887195659
#> [22,] -0.0374027461 -0.092231503 -0.097825084
#> [23,] -1.8873984913 -4.182084061 -4.674428981
#> [24,]  0.7590484895  1.457127416  1.755162693
#> [25,]  0.4337576900  1.042339397  1.119341717
#> [26,]  1.1297029933  2.456489844  2.771965606
#> [27,] -0.1742795344 -1.746988999 -1.186828776
#> [28,] -0.3653341138 -1.072551198 -1.050785198
#> [29,]  2.0884294534  3.037076098  4.289679011
#> [30,] -1.5728525581 -2.045099328 -3.096259562
#> [31,] -0.5261575535  0.202340807 -0.543817061
#> [32,] -0.2713871955 -0.154197153 -0.423987261
#> [33,] -0.1517919544 -0.468595669 -0.449332448
#> [34,] -2.5545246223 -4.384659903 -5.618742771
#> [35,]  0.4868154736  0.215802672  0.726810414
#> [36,]  1.1478922447  3.019521455  3.107106203
#> [37,] -1.2317035066 -1.285059353 -2.249063289
#> [38,] -2.0480627052 -2.960097787 -4.196622759
#> [39,] -1.2240382783 -1.371337151 -2.287385471
#> [40,]  0.5056160292  0.160807521  0.719734317

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```

#> [41,] -0.6758353226 -1.147410240 -1.479517506
#> [42,] -0.4563126125 -0.385589589 -0.782998599
#> [43,] 0.4188737876 0.929303607 1.038051663
#> [44,] 0.7706243903 0.532790144 1.256629120
#> [45,] 1.6024788553 2.701607024 3.497537235
#> [46,] 0.1726466501 0.098115504 0.269736848
#> [47,] -0.0411852198 -0.545095999 -0.353862586
#> [48,] 1.3284469116 3.086527991 3.369440012
#> [49,] -0.7574118331 -1.024471282 -1.513015777
#> [50,] 1.7869195871 3.250739243 4.032276457
#> [51,] 0.2883845027 1.687976956 1.296366131
#> [52,] 1.0231709942 2.037103258 2.406380380
#> [53,] -1.4095049043 -2.802880042 -3.313104940
#> [54,] -0.2626830852 -1.086665657 -0.930614393
#> [55,] -1.5469913715 -3.064982687 -3.630003754
#> [56,] -0.1478048351 0.582910687 0.139181411
#> [57,] -0.6226967869 -1.912638872 -1.837924689
#> [58,] 0.0307922353 1.201972841 0.705441892
#> [59,] -1.0430118839 -1.694448497 -2.240962519
#> [60,] -0.9962744527 -1.699337633 -2.185395161
#> [61,] -0.3358066128 -0.192120230 -0.525362681
#> [62,] -0.0174790624 -0.488754041 -0.293034064
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#> [1787,] -0.3175313788 -1.693296173 -1.335663634
#> [1788,] -1.5389265687 -1.983493337 -3.019765800
#> [1789,] -0.9222438280 -0.953198279 -1.679004379
#> [1790,] -0.0045074869 -0.555383001 -0.313835057
#> [1791,] -0.5293677912 -0.284012020 -0.817725618
#> [1792,] -1.4557056836 -2.272688190 -3.076482089
#> [1793,] -0.2254066789  1.008471685  0.278582032
#> [1794,]  1.1932441389  1.368451204  2.247384228
#> [1795,]  1.1452647712  1.601164871  2.316701276

```



```

#> [1796,] -1.5020163157 -2.286280785 -3.141773824
#> [1797,] -0.0973149666 -0.555937853 -0.429872011
#> [1798,] 0.3844500924 1.750342705 1.450768342
#> [1799,] -1.2737591998 -2.194409880 -2.806157351
#> [1800,] -0.5878480981 -1.642458208 -1.644530127
#> [1801,] 1.1384200668 1.851316883 2.446989963
#> [1802,] 2.3356363826 4.044848899 5.157212720
#> [1803,] -3.1919572854 -5.511207339 -7.038794961
#> [1804,] 0.0274678898 -0.451748222 -0.216449451
#> [1805,] 0.3004208507 0.697598933 0.761756874
#> [1806,] 1.9342587264 2.323245277 3.701285039
#> [1807,] -1.3828978086 -2.843114883 -3.302255086
#> [1808,] -0.2023491549 0.224745506 -0.127600923
#> [1809,] -0.8068095547 -1.348711031 -1.754553214
#> [1810,] 0.0136156561 1.548183010 0.876155197
#> [1811,] -0.1987749283 -0.184136098 -0.350056107
#> [1812,] 2.1734298257 3.275623510 4.528056567
#> [1813,] -1.4320163263 -2.950648201 -3.423181365
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#> [1815,] 1.3241051100 1.948846001 2.732660002
#> [1816,] 2.2051997845 3.678442861 4.791220932
#> [1817,] -0.1297942794 -0.405282929 -0.386765876
#> [1818,] 0.8615062185 1.640924936 1.984925320
#> [1819,] -0.2259788649 -1.315484457 -1.011829832
#> [1820,] 0.8597776863 2.180905400 2.282436426
#> [1821,] -0.2207728990 -2.274154148 -1.537359640
#> [1822,] -0.4489472722 -0.778599361 -0.991918139
#> [1823,] -0.7806969753 -1.060016484 -1.561777973
#> [1824,] -0.1848919502 -0.124037970 -0.299392371
#> [1825,] -1.0465170860 -1.649738913 -2.220521487
#> [1826,] -2.3858549689 -4.023607922 -5.208046420
#> [1827,] 1.6196647619 2.665361016 3.498852693
#> [1828,] 0.6601314551 0.908325069 1.327252844
#> [1829,] -1.0025049915 -2.994195947 -2.911756667
#> [1830,] -0.6162354618 -0.405497587 -0.993467236
#> [1831,] 1.6534884837 3.662012609 4.094130091
#> [1832,] -1.0847748528 -1.727728813 -2.311509271
#> [1833,] 0.9027053959 2.135089403 2.310540444
#> [1834,] -0.4035337599 -0.163809250 -0.594105643
#> [1835,] 1.7765312846 2.610013894 3.663746713
#> [1836,] 0.6963492039 0.641033669 1.224080102
#> [1837,] -0.1661906293 -1.388252347 -0.977658254
#> [1838,] 1.1366905197 2.692789344 2.911815238
#> [1839,] 1.4835053187 2.172243995 3.055405344
#> [1840,] 2.5267537208 3.752871108 5.233496693

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#> [1841,] 0.4183451003 0.349039628 0.715370187
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#> [1843,] -1.0621098993 -0.544288237 -1.626486564
#> [1844,] 0.2711496960 -0.293466147 0.175256715
#> [1845,] 0.1322706061 1.190692336 0.825723143
#> [1846,] 0.7619322027 1.816270654 1.958068086
#> [1847,] 0.1258517860 0.704325622 0.547805842
#> [1848,] 2.1555987320 3.337259040 4.540026696
#> [1849,] -0.9091829047 -1.457401757 -1.942529495
#> [1850,] 1.2451030267 2.716720935 3.060284454
#> [1851,] 0.6380085373 0.491883632 1.068558455
#> [1852,] -1.3041570392 -2.160587508 -2.825292835
#> [1853,] 0.6404957130 2.069469399 1.947153963
#> [1854,] 0.4768184338 1.634501658 1.501662849
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#> [1856,] -1.5232067255 -3.407952698 -3.790678783
#> [1857,] -1.2703664718 -1.966686782 -2.675549902
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#> [1859,] -0.7518423373 -1.452316450 -1.743506884
#> [1860,] -2.5089138958 -4.809492834 -5.797631615
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#> [1862,] -2.2511329025 -4.203151628 -5.139689991
#> [1863,] -0.5526554260 -0.617991780 -1.032109608
#> [1864,] -0.0744459551 -0.223403366 -0.216812102
#> [1865,] -1.7150130566 -3.224284274 -3.927929079
#> [1866,] -1.0248172185 -1.578430158 -2.153888821
#> [1867,] -0.4268693580 -1.218459105 -1.208491172
#> [1868,] -0.7063967538 -1.454566079 -1.688085618
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#> [1870,] -0.7997113965 -0.687770223 -1.378907479
#> [1871,] 0.3722891716 0.764998652 0.888779226
#> [1872,] -0.0143755920 -0.941856221 -0.540616839
#> [1873,] -1.0919721307 -2.616964674 -2.813972802
#> [1874,] 0.6417358057 1.517836388 1.642567108
#> [1875,] 1.9577695884 3.246876153 4.243179070
#> [1876,] -0.9446931458 -0.608806494 -1.515875199
#> [1877,] -0.5446338874 -2.910933986 -2.294593836
#> [1878,] -0.1302152590 0.387859562 0.052870046
#> [1879,] -0.1401988041 -0.316498750 -0.350468605
#> [1880,] 0.5673282267 1.563229093 1.574973425
#> [1881,] 0.3776904593 0.999946948 1.025900990
#> [1882,] -0.1352971622 -0.015661002 -0.177404002
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#> [1884,] -0.1203293078 -0.115933137 -0.214386230
#> [1885,] 0.4244205576 1.443042007 1.330071676

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#> [1886,] -0.8984114386 -2.007532849 -2.234397419
#> [1887,] -1.4692959967 -1.675711923 -2.762132098
#> [1888,] 0.2552046436 0.247349400 0.455503546
#> [1889,] -1.0367643004 -0.749662784 -1.708855394
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#> [1898,] -1.7370440011 -2.543312097 -3.577490171
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#> [1901,] -0.7403616762 0.222489620 -0.799743485
#> [1902,] -2.0066286122 -4.074337654 -4.763311766
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#> [1904,] -1.2496314942 -1.885856302 -2.604836276
#> [1905,] -0.1821776908 -0.419862848 -0.460178167
#> [1906,] -0.9467042008 -0.921692762 -1.692021723
#> [1907,] 0.0188579500 0.593306368 0.352775673
#> [1908,] -0.7179295329 -0.674011198 -1.269291480
#> [1909,] -0.2050230344 0.718534511 0.143097028
#> [1910,] -1.9220464674 -2.562311092 -3.818728120
#> [1911,] 2.0739857732 4.417230464 5.037595925
#> [1912,] 0.8059357454 1.146834696 1.641430677
#> [1913,] 1.0327483539 0.548292742 1.592095649
#> [1914,] 1.2499645648 1.470714543 2.374865313
#> [1915,] -0.6697301018 -2.283254954 -2.102250681
#> [1916,] 0.5744321332 -0.445942462 0.468825758
#> [1917,] -1.7693837479 -2.072998534 -3.356812839
#> [1918,] 0.1252544814 0.267789523 0.304801757
#> [1919,] -0.0390649998 0.508915342 0.233713450
#> [1920,] 1.1216773113 2.325611741 2.689325877
#> [1921,] -1.9791246619 -4.692636432 -5.072144836
#> [1922,] -3.5498918326 -5.166952335 -7.294084927
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#> [1924,] 1.5368018243 1.150961409 2.555095923
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#> [1926,] 0.2687983524 0.386711445 0.549794724
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#> [1928,] -0.2607843647 -0.777771752 -0.756823543
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#> [1930,] -1.4492085786 -2.917021933 -3.425958582

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#> [1931,] 2.0939430312 2.484662815 3.989988086
#> [1932,] 0.8420119675 1.366985459 1.808591446
#> [1933,] 1.1327862944 2.533894187 2.818766590
#> [1934,] 0.7610997288 -0.160323294 0.860103123
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#> [1937,] 1.5853128031 2.851504181 3.559318165
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#> [1939,] 0.0023839783 -0.118357257 -0.062710550
#> [1940,] 0.8737196654 0.780565399 1.522691718
#> [1941,] 0.3730395666 2.680939091 1.952981681
#> [1942,] -0.7827506813 -2.139663674 -2.163497890
#> [1943,] -0.7693746175 -0.845265695 -1.428481527
#> [1944,] 0.7594949634 -0.012687790 0.940033536
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#> [1946,] -0.3716077361 -0.898681572 -0.962117914
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#> [1949,] 1.4789925688 2.122661050 3.022261579
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#> [1951,] 0.6117033854 0.596604848 1.093872357
#> [1952,] -2.0167231091 -3.697980945 -4.567037181
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#> [1955,] 0.7534118859 0.628173224 1.288099094
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#> [1958,] 0.6015193052 0.303810138 0.918684212
#> [1959,] -3.6434697469 -4.098342519 -6.817740970
#> [1960,] 0.1610024377 -0.598690036 -0.131481148
#> [1961,] 0.1092781058 -0.119424007 0.069992245
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#> [1963,] 0.5714335370 0.937288866 1.232722044
#> [1964,] 0.6621895169 1.594072401 1.710380263
#> [1965,] 1.2654313909 2.069206360 2.726290031
#> [1966,] 0.3674515166 0.387281954 0.673129817
#> [1967,] -2.7869132179 -4.445076048 -5.942055041
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#> [1969,] -1.6639613340 -1.904042752 -3.131589854
#> [1970,] -0.7187231901 -2.517327152 -2.293244333
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#> [1973,] 0.4319204466 0.311834062 0.711650836
#> [1974,] 2.5520412233 3.046737362 4.873155029
#> [1975,] 0.3372091997 0.729920353 0.825568230

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#> [1976,] -0.6758893821 -1.034080373 -1.416691586
#> [1977,] -1.3895508145 -1.214842793 -2.406928411
#> [1978,] 0.4495549923 0.399586981 0.782339950
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#> [1980,] 0.8892778566 2.417075339 2.450286965
#> [1981,] -0.0442273871 -0.145805230 -0.136066448
#> [1982,] -2.0878442431 -4.059060964 -4.856108078
#> [1983,] -0.6833874293 -1.304179913 -1.575935434
#> [1984,] -0.7460957295 -1.519678990 -1.773724371
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#> [1986,] -0.6363959065 -0.201352919 -0.905315155
#> [1987,] 1.2728633720 2.311073649 2.869783779
#> [1988,] -0.2980978563 -1.294928278 -1.090352925
#> [1989,] 1.0270018650 0.568666742 1.596236611
#> [1990,] -0.6157136570 -0.172371034 -0.863441079
#> [1991,] -1.6367293197 -2.942815832 -3.674107656
#> [1992,] -0.0421914446 -1.030463261 -0.624475837
#> [1993,] -0.1863644288 0.519104109 0.055688405
#> [1994,] 1.2697448142 1.195963488 2.247055549
#> [1995,] 0.7986783421 0.772312755 1.424536847
#> [1996,] 2.4407198379 3.964087710 5.243430567
#> [1997,] -0.5495336472 -0.072917084 -0.725723179
#> [1998,] 1.0252937092 1.552545223 2.140117940
#> [1999,] -0.1091744306 0.217206745 -0.015597639
#> [2000,] -1.1307671265 -1.117183636 -2.030033687
#>
#> [[1]][[16]]$value[[1]]$decomposition
#> [1] "eigen"
#>
#>
#>
#> [[1]][[16]]$visible
#> [1] TRUE

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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/>