

# 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-simple-med-defined-equality
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-defined-inequality
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-defined-none
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#> Test passed
#> Test passed
#> Test passed

#> 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

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

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

#> test-semmcci-mc-methods

#> Monte Carlo Confidence Intervals
#>
#>      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.5535 0.1044 100 0.3218 0.3253 0.3664 0.7282 0.8079 0.8194
#> visual=~x3      0.7294 0.1007 100 0.4876 0.5009 0.5344 0.8814 0.9576 1.0037
#> textual=~x5      1.1131 0.0628 100 0.8991 0.9139 0.9558 1.2096 1.2442 1.2699
#> textual=~x6      0.9261 0.0584 100 0.8055 0.8100 0.8296 1.0471 1.0876 1.1020
#> speed=~x8        1.1800 0.1702 100 0.7714 0.7826 0.8646 1.5514 1.6455 1.6486
#> speed=~x9        1.0815 0.1501 100 0.7272 0.7286 0.7911 1.3749 1.4125 1.4185
#> x1~~x1           0.5491 0.0964 100 0.2941 0.3103 0.3550 0.7318 0.7765 0.7864
#> x2~~x2           1.1338 0.1027 100 0.8293 0.8830 0.9570 1.3493 1.3768 1.3934
#> x3~~x3           0.8443 0.0852 100 0.6407 0.6420 0.6524 0.9926 1.0086 1.0104
#> x4~~x4           0.3712 0.0458 100 0.2710 0.2748 0.2829 0.4635 0.4757 0.4774
#> x5~~x5           0.4463 0.0676 100 0.2698 0.2910 0.3197 0.5729 0.6145 0.6327
#> x6~~x6           0.3562 0.0432 100 0.2738 0.2746 0.2851 0.4338 0.4444 0.4492
#> x7~~x7           0.7994 0.0726 100 0.6291 0.6371 0.6695 0.9432 0.9615 0.9665
#> x8~~x8           0.4877 0.0721 100 0.3226 0.3300 0.3524 0.6263 0.6535 0.6731
#> x9~~x9           0.5661 0.0631 100 0.4025 0.4216 0.4460 0.6720 0.7242 0.7472
#> visual~~visual    0.8093 0.1414 100 0.3927 0.3990 0.4943 1.0685 1.1171 1.1335
#> textual~~textual  0.9795 0.1193 100 0.6977 0.7031 0.7336 1.2030 1.2883 1.3296

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#> speed~~speed      0.3837 0.0856 100 0.0937 0.1440 0.2180 0.5405 0.5700 0.5787
#> visual~~textual   0.4082 0.0686 100 0.2361 0.2388 0.2584 0.5318 0.5546 0.5683
#> visual~~speed     0.2622 0.0578 100 0.1306 0.1334 0.1438 0.3599 0.3768 0.3777
#> textual~~speed    0.1735 0.0519 100 0.0403 0.0448 0.0783 0.2792 0.3207 0.3343
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R 0.05%   0.5%   2.5% 97.5% 99.5% 99.95%
#> visual=~x2      0.4236 0.0631 100 0.2860 0.2923 0.3024 0.5321 0.5807 0.5860
#> visual=~x3      0.5811 0.0535 100 0.4205 0.4391 0.4812 0.6764 0.6827 0.6833
#> textual=~x5      0.8551 0.0261 100 0.7675 0.7824 0.8024 0.8967 0.9047 0.9061
#> textual=~x6      0.8380 0.0242 100 0.7820 0.7826 0.7859 0.8746 0.8827 0.8834
#> speed=~x8        0.7230 0.0501 100 0.5697 0.5770 0.5899 0.7982 0.8053 0.8095
#> speed=~x9        0.6650 0.0518 100 0.4828 0.5056 0.5485 0.7579 0.7758 0.7814
#> x1~~x1           0.4042 0.0785 100 0.2325 0.2404 0.2556 0.5597 0.6422 0.6594
#> x2~~x2           0.8206 0.0534 100 0.6566 0.6628 0.7169 0.9086 0.9145 0.9182
#> x3~~x3           0.6623 0.0613 100 0.5332 0.5340 0.5425 0.7684 0.8067 0.8231
#> x4~~x4           0.2748 0.0390 100 0.1699 0.1818 0.2152 0.3533 0.3628 0.3668
#> x5~~x5           0.2689 0.0442 100 0.1789 0.1815 0.1959 0.3561 0.3875 0.4108
#> x6~~x6           0.2977 0.0404 100 0.2195 0.2209 0.2350 0.3824 0.3875 0.3885
#> x7~~x7           0.6757 0.0612 100 0.5594 0.5656 0.5790 0.7959 0.8641 0.9082
#> x8~~x8           0.4772 0.0701 100 0.3448 0.3514 0.3628 0.6520 0.6670 0.6754
#> x9~~x9           0.5578 0.0672 100 0.3894 0.3981 0.4256 0.6992 0.7437 0.7668
#> 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 0.0646 100 0.2964 0.3031 0.3292 0.5801 0.6216 0.6223
#> visual~~speed     0.4705 0.0848 100 0.2805 0.2911 0.3153 0.6302 0.6869 0.7262
#> textual~~speed    0.2830 0.0711 100 0.0747 0.0850 0.1661 0.4310 0.4387 0.4417
#> 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]]
#> [1] TRUE
#>
#>
#> [[1]][[2]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[3]]
#> [[1]][[3]]$value
#> [[1]][[3]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[3]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[4]]
#> [[1]][[4]]$value
#> [[1]][[4]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[4]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[5]]
#> [[1]][[5]]$value
#> [[1]][[5]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[5]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[6]]
#> [[1]][[6]]$value
#> [[1]][[6]]$value[[1]]
#> [1] TRUE
#>

```

```

#>
#> [[1]][[6]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[7]]
#> [[1]][[7]]$value
#> [[1]][[7]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[7]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$value
#> [[1]][[8]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[9]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[10]]
#> [[1]][[10]]$value
#> [[1]][[10]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[10]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[11]]

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```
#> [[1]][[11]]$value
#> [[1]][[11]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[11]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[12]]
#> [[1]][[12]]$value
#> [[1]][[12]]$value[[1]]
#>
#>                2.5%      97.5%
#> visual=~x2      0.3023570 0.5320952
#> visual=~x3      0.4812098 0.6764096
#> textual=~x5      0.8024420 0.8967116
#> textual=~x6      0.7858819 0.8746271
#> speed=~x8        0.5898808 0.7982401
#> speed=~x9        0.5484744 0.7579135
#> x1~~x1           0.2556275 0.5597002
#> x2~~x2           0.7168732 0.9085796
#> x3~~x3           0.5424694 0.7684292
#> x4~~x4           0.2151761 0.3533157
#> x5~~x5           0.1959075 0.3560865
#> x6~~x6           0.2350268 0.3823830
#> x7~~x7           0.5789922 0.7959483
#> x8~~x8           0.3628066 0.6520323
#> x9~~x9           0.4255659 0.6991753
#> visual~~visual   1.0000000 1.0000000
#> textual~~textual 1.0000000 1.0000000
#> speed~~speed     1.0000000 1.0000000
#> visual~~textual  0.3291571 0.5800589
#> visual~~speed    0.3153372 0.6302122
#> textual~~speed   0.1661140 0.4310188
#>
#>
#> [[1]][[12]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[13]]
#> [[1]][[13]]$value
#> [[1]][[13]]$value[[1]]
#> [[1]][[13]]$value[[1]]$thetahatstar
#>
#>                y1                y2                y3
```

```

#> [1,] 0.1921451456 -0.1446237892 0.159340930
#> [2,] -2.1419724815 -3.6645106679 -4.704645991
#> [3,] -0.5347380074 -0.6236736500 -1.012920152
#> [4,] -0.0293436921 0.9691947702 0.501271534
#> [5,] -1.1006194533 -2.5648950948 -2.795859401
#> [6,] 1.3442379625 3.5817800541 3.663975290
#> [7,] 1.8639046649 2.3360065910 3.620636955
#> [8,] -1.8000876928 -3.0377296180 -3.930485392
#> [9,] 0.2258183471 0.1168294383 0.346426320
#> [10,] -1.3516920728 -1.7303218421 -2.645788623
#> [11,] 0.2162427739 -0.2295419149 0.142264176
#> [12,] -0.7469593181 -2.4071429404 -2.267306584
#> [13,] -2.8949798049 -5.0437385918 -6.409044518
#> [14,] -1.0354363634 -2.8944539739 -2.897468797
#> [15,] 1.3484676406 2.0349502798 2.810823850
#> [16,] 0.6036131466 0.7306560681 1.158176809
#> [17,] 1.0404173451 1.4220260118 2.086544108
#> [18,] 0.6933649097 1.7782419502 1.851461731
#> [19,] -1.1287025255 -1.7617686681 -2.385176877
#> [20,] -0.7100327826 -0.1808425218 -0.985756426
#> [21,] -2.0837644042 -2.5922654834 -4.037010521
#> [22,] -1.0677670069 -2.0625596134 -2.476117909
#> [23,] 0.2675596774 1.4675961312 1.148095868
#> [24,] -0.5535410041 -0.8789448114 -1.178031913
#> [25,] -2.0715999002 -2.4981871316 -3.969632087
#> [26,] 0.1229093535 -0.6432344970 -0.203702758
#> [27,] 0.5360131188 0.5987008958 1.000651357
#> [28,] 0.9615855430 2.3904031813 2.525651244
#> [29,] -0.9715423124 -2.0346529395 -2.340640642
#> [30,] -1.1510626277 -2.7159800327 -2.942606825
#> [31,] -0.2279341537 0.8135518451 0.167257972
#> [32,] -0.5234576793 -0.8077712259 -1.101020260
#> [33,] -0.7417169145 -1.2511494455 -1.619241423
#> [34,] 1.2023225124 1.8615320551 2.532344002
#> [35,] -1.9346375405 -2.9441281924 -4.046321436
#> [36,] 1.7588755721 2.6662664691 3.672948223
#> [37,] -0.5422697368 -0.7776948965 -1.107787409
#> [38,] -0.7663946117 -0.9498180691 -1.482787711
#> [39,] -0.8157457608 -0.4555114627 -1.270008116
#> [40,] -0.7207611835 0.5321526616 -0.603452048
#> [41,] -0.2189505551 -0.0465671912 -0.298869718
#> [42,] 1.2622348748 0.9447239068 2.098263359
#> [43,] 0.5447978137 0.4830481103 0.947423239
#> [44,] -0.0051424924 0.6266808426 0.341369047
#> [45,] 2.6785593952 4.6211592341 5.904658830

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#> [46,] -0.7912193084 -0.0364883458 -1.006883844
#> [47,] -0.0973344501 -0.7449919484 -0.534813414
#> [48,] 0.5647568269 1.3850892344 1.472906779
#> [49,] -1.6671749713 -2.1095304830 -3.249634281
#> [50,] 1.2124302581 3.2224581515 3.300205159
#> [51,] 0.5085775557 -0.2684147651 0.485226882
#> [52,] -1.5508262905 -2.5197220639 -3.332189003
#> [53,] -1.2144291227 -2.1702830513 -2.718784574
#> [54,] -3.2373232931 -4.9186967103 -6.766546856
#> [55,] -1.0978638693 -1.7704296272 -2.351528172
#> [56,] 0.3146142261 -0.3937636752 0.173795169
#> [57,] 0.8055608232 2.2946987626 2.277979655
#> [58,] -1.8139097326 -3.1280404811 -3.997839942
#> [59,] 1.6204150850 1.5460385316 2.878611216
#> [60,] -0.0866755087 0.2683931557 0.040864373
#> [61,] 0.1170204322 -0.9556888610 -0.384445213
#> [62,] -0.0600643986 0.0654940053 -0.038552649
#> [63,] -0.3275578332 -0.0847377048 -0.455483815
#> [64,] -0.4488949944 -0.8981513931 -1.058199322
#> [65,] -0.1923970362 -0.2139995071 -0.358675947
#> [66,] 0.6945280869 0.8776892245 1.353143131
#> [67,] 1.7424453422 3.1258364794 3.907502176
#> [68,] -0.2565235383 0.4502714134 -0.069997838
#> [69,] -0.6780192490 -0.5470645500 -1.149074095
#> [70,] -0.2411994186 -0.2098107306 -0.417206927
#> [71,] -1.5399413306 -2.2738257041 -3.182153496
#> [72,] -1.8436069794 -2.4325554812 -3.648906747
#> [73,] 0.9744437809 1.5112631231 2.053799280
#> [74,] -0.9833136635 -1.8550509601 -2.255647698
#> [75,] 0.6792379175 1.2914892315 1.563718281
#> [76,] -1.1023879760 -3.1062047139 -3.098468887
#> [77,] -0.8902033177 -1.8794390855 -2.153075385
#> [78,] 0.7961189097 0.5220491168 1.282459445
#> [79,] 1.8632689300 4.0733965132 4.584022872
#> [80,] -2.1697295559 -2.6339167335 -4.167322012
#> [81,] 0.0224967593 0.3597221489 0.227683732
#> [82,] 0.7358009379 1.0814242394 1.517673938
#> [83,] 1.0950638714 0.6776625607 1.741596661
#> [84,] -1.8471958677 -3.2757053075 -4.121294870
#> [85,] -3.0904729715 -5.7086027951 -7.021792305
#> [86,] -0.9845743575 -0.5866005573 -1.553282892
#> [87,] 0.9122653921 0.4070904452 1.363494490
#> [88,] -1.9075582798 -1.5945291138 -3.263583166
#> [89,] -0.6313319584 -1.2641202675 -1.488791898
#> [90,] -1.1266796452 -1.0406422907 -1.982459439

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#> [91,] -0.2485202858 -1.4638506615 -1.122275556
#> [92,] 0.0629960256 -0.1396847296 0.001035582
#> [93,] -2.1876192493 -4.0877704704 -4.996458049
#> [94,] 0.2521601739 0.0932710673 0.366200131
#> [95,] -1.4134427153 -2.5765351481 -3.192403370
#> [96,] -0.2861242710 0.0331581406 -0.338389750
#> [97,] -1.7219434998 -4.2729935443 -4.518560939
#> [98,] 1.7324450260 2.1356337647 3.345510937
#> [99,] -0.1108123793 -0.8498324896 -0.609802228
#> [100,] -1.1335448634 -2.3430935076 -2.713826121
#> [101,] 0.0575429379 -0.7973376224 -0.370734128
#> [102,] -0.2598315157 -0.3241158212 -0.503875311
#> [103,] -0.4453574579 0.6187849155 -0.211951945
#> [104,] -1.3128813614 -1.9943341416 -2.743908230
#> [105,] -2.1759442472 -3.2086743455 -4.494038016
#> [106,] 0.8683795162 1.3317361084 1.821909328
#> [107,] -0.9565903306 -0.6980426285 -1.580233065
#> [108,] -2.2353188117 -4.3722796417 -5.213829109
#> [109,] 1.0858964204 1.6168753820 2.251388830
#> [110,] -0.4420847805 -1.6317380108 -1.456816983
#> [111,] -0.0724831943 -1.0531367761 -0.674831883
#> [112,] -1.3803318512 -1.8864889717 -2.768168061
#> [113,] 1.1919932836 0.8647811354 1.966308636
#> [114,] -0.3396176463 -0.7851396556 -0.859215915
#> [115,] 1.1171802542 2.5617227233 2.814749848
#> [116,] -0.0185809787 1.0225633318 0.544309735
#> [117,] 0.6022410052 -0.4711474985 0.489515114
#> [118,] 1.8870252302 2.8121211602 3.913691480
#> [119,] -1.2448412486 -3.2101765448 -3.333805226
#> [120,] 0.0988946850 0.6118436575 0.462867268
#> [121,] 0.3795348553 0.0591613854 0.506104315
#> [122,] 0.1345871204 1.5284197486 1.016036363
#> [123,] -0.2303524451 0.1993560746 -0.176610526
#> [124,] 0.0769302349 0.4443401923 0.342520637
#> [125,] -0.0027204187 2.5676937269 1.421570208
#> [126,] 1.3464327488 3.2482076052 3.481593401
#> [127,] -0.7738517614 -1.8526489037 -1.993119938
#> [128,] -1.5503158707 -1.7338849500 -2.895445823
#> [129,] -0.5638534276 -0.7101145905 -1.097197590
#> [130,] -1.0638895495 -1.7970959079 -2.323961557
#> [131,] 1.5359748127 3.4236088135 3.815288815
#> [132,] 0.7729907279 1.4249379988 1.754684602
#> [133,] -0.0962064761 -0.4258800865 -0.356313131
#> [134,] 0.0916716712 0.7940541637 0.554979520
#> [135,] 0.6010262862 1.6370740092 1.657975054

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```

#> [136,] 1.2831960630 2.0046070689 2.712592313
#> [137,] -0.1026048780 0.8526073399 0.345215187
#> [138,] 0.4070147210 -0.4980986787 0.231115143
#> [139,] 1.7464847634 2.0129105916 3.294911980
#> [140,] -0.6954570420 -1.4660842711 -1.680836135
#> [141,] 0.5919280019 1.0517692330 1.321810034
#> [142,] -1.8584256892 -2.2663952083 -3.575173381
#> [143,] 0.5418746019 2.7085713472 2.178850272
#> [144,] 0.4864915986 -0.4761925685 0.342378163
#> [145,] -2.1717545908 -2.5374031110 -4.116286170
#> [146,] 0.6922256766 -0.2577902723 0.720128492
#> [147,] -0.5751503448 -1.3158582545 -1.447446988
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#> [1562,] -0.2179805357 -0.3605292992 -0.471895948
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#> [1573,] 1.1483153517 2.8445905784 3.010554496
#> [1574,] -0.8268021151 -2.0207470386 -2.152435376
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#> [1615,] 0.6181707318 1.6730154525 1.699299825
#> [1616,] 0.8388840193 1.4329745182 1.841312124
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#> [1619,] 0.0666610525 -0.5748105244 -0.235870802
#> [1620,] 0.0869085052 0.3395342901 0.296800449

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#> [1632,] -1.0122724907 -1.0084557072 -1.821933845
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#> [1666,] -0.3870655141 -0.0074012751 -0.486770199
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#> [1685,]  0.1132241717 -0.0489486467  0.114023783
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#> [1800,] 2.0095164020 2.8552028585 4.090344012

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#> [1801,] -2.7203372269 -3.2803700432 -5.212673069
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#> [1812,]  1.8995998839  1.7312195669  3.329516688
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#> [1823,]  0.2081923580 -0.8539284505 -0.214282914
#> [1824,]  3.1254352198  5.8191383194  7.126732104
#> [1825,] -1.6517868319 -3.3477831954 -3.917623998
#> [1826,] -0.6337656841 -1.4586639090 -1.599790280
#> [1827,]  0.3381202734  0.0803186493  0.466202572
#> [1828,] -1.9802092809 -3.7501996286 -4.550484365
#> [1829,] -0.7558072624 -1.4730343350 -1.759948624
#> [1830,] -0.5630662151 -0.3167731256 -0.877927908
#> [1831,]  1.1632635045  2.9049507459  3.062691904
#> [1832,] -1.4224945163 -3.4366389067 -3.681012357
#> [1833,] -0.2116715095  0.2566328834 -0.121529549
#> [1834,] -0.2261288573 -0.5776179431 -0.602531848
#> [1835,] -2.4877177091 -3.7156344014 -5.164154770
#> [1836,] -0.4274818474 -1.0722537006 -1.128117055
#> [1837,]  0.3925984159 -0.9028032933 -0.011455812
#> [1838,]  0.7915403314  2.5242273707  2.387875155
#> [1839,]  0.3503497570  0.0217863248  0.448969499
#> [1840,]  0.4560114744  1.5515385778  1.429675959
#> [1841,]  1.0469613484  0.8630303657  1.784485167
#> [1842,]  0.2642773569  0.5978429578  0.661326285
#> [1843,] -1.2244488250 -0.9994281081 -2.081503467
#> [1844,] -1.6428555788 -2.2575125389 -3.301432340
#> [1845,] -0.0662161602  0.0404387633 -0.060128381

```

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#> [1846,] 0.3914867078 0.6572809725 0.852939361
#> [1847,] -0.8999117797 -1.5332842582 -1.973080202
#> [1848,] 0.5097124343 2.1259833478 1.815432757
#> [1849,] 1.6691907947 3.5247227739 4.037520442
#> [1850,] -0.7329157879 -1.0715175369 -1.508578410
#> [1851,] 0.3524297878 -0.1138669982 0.376281341
#> [1852,] 2.1577052253 5.3812035489 5.676957077
#> [1853,] 2.2279611710 4.6820977181 5.376590342
#> [1854,] -0.6676287462 -0.1252104683 -0.902005997
#> [1855,] -0.7531031717 -2.5211998361 -2.338264646
#> [1856,] -0.8491508850 -0.8471977662 -1.529033124
#> [1857,] 0.9723464889 -0.1034239164 1.155100296
#> [1858,] -1.5092618323 -3.4988262978 -3.823720828
#> [1859,] 1.5322274449 1.3552113312 2.662741921
#> [1860,] 0.0375109906 1.2989857279 0.767658133
#> [1861,] 0.8107455173 1.6048161731 1.901588910
#> [1862,] 0.0947115635 -1.6119066862 -0.776437336
#> [1863,] 2.0321636295 3.2317686854 4.327562910
#> [1864,] 1.6726128789 3.3977877056 3.971344063
#> [1865,] 2.1452178917 4.3580651145 5.093586632
#> [1866,] 0.2525864516 -0.0066763626 0.311265052
#> [1867,] -1.8504671501 -2.1543358061 -3.503060968
#> [1868,] -1.5854408140 -3.5385989571 -3.940786625
#> [1869,] 0.6628157773 2.3820698699 2.148466801
#> [1870,] 0.4109651907 1.2164493668 1.187543679
#> [1871,] 0.9944664700 2.0421431425 2.373383348
#> [1872,] -0.2817072723 -0.7095088496 -0.745030929
#> [1873,] -0.1141287430 -1.0057902096 -0.700487671
#> [1874,] -0.5947297501 -1.8212020747 -1.752306770
#> [1875,] 1.9955772118 3.8294742232 4.613641942
#> [1876,] 1.2050858896 3.3886582036 3.383280952
#> [1877,] 1.0281406521 0.5218339113 1.571666396
#> [1878,] 0.4436139060 1.9569265189 1.639189778
#> [1879,] -0.3016276184 -1.3551598678 -1.128180477
#> [1880,] 0.0781061792 0.5061359068 0.378281050
#> [1881,] 1.7639165878 3.3543515629 4.061092685
#> [1882,] -0.7505621472 -3.0073112497 -2.604867523
#> [1883,] -0.4441843380 -0.8970860808 -1.051734025
#> [1884,] 1.0085672186 1.4808170816 2.079454232
#> [1885,] 1.8260115459 2.0606363798 3.420566070
#> [1886,] 0.4014464608 1.1784655940 1.154594613
#> [1887,] 1.1700779412 2.2205512884 2.691376323
#> [1888,] -1.3469907352 -3.2190126322 -3.466087211
#> [1889,] 0.4579473628 0.4904909444 0.843252959
#> [1890,] -0.1989290612 0.2589758450 -0.104339731

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#> [1891,] -1.0198771947 -1.3360961622 -2.013243491
#> [1892,] -0.7276963614 -0.7835229287 -1.342244941
#> [1893,] -1.7767092065 -3.6341443494 -4.232318102
#> [1894,] -0.6298814180 -0.8809677090 -1.274349475
#> [1895,] -1.8792604868 -4.2170554827 -4.683688731
#> [1896,] 0.7884504198 0.9209527145 1.494271790
#> [1897,] 1.3930261090 3.2542753573 3.543061719
#> [1898,] 0.4226348212 0.4800533200 0.793426496
#> [1899,] -0.2917554549 -0.3591718299 -0.563138429
#> [1900,] -0.9029584858 -1.4784410448 -1.946443695
#> [1901,] -1.2717681788 -2.3317220115 -2.879877072
#> [1902,] 0.3942453998 0.1491335695 0.574378860
#> [1903,] 0.3808152682 0.5000780054 0.752391228
#> [1904,] 0.3321037042 0.9292683695 0.929831584
#> [1905,] -0.7957986639 -1.3965306319 -1.767360733
#> [1906,] 1.6782798110 3.3726302203 3.964449261
#> [1907,] -1.4953476128 -0.7348613577 -2.272485260
#> [1908,] 1.4830031350 2.4888882290 3.230503424
#> [1909,] -1.1473219601 -1.5723244961 -2.303261348
#> [1910,] -0.2881479031 0.9582942585 0.172498634
#> [1911,] -1.4513052550 -3.9310386939 -3.991309942
#> [1912,] 1.6157071616 2.3184642394 3.301404460
#> [1913,] 0.4442269268 1.1152117243 1.172837733
#> [1914,] -0.5560603271 -0.0316962279 -0.710985966
#> [1915,] -0.7947887922 0.0140567567 -0.983284502
#> [1916,] 1.9954074084 2.3091739261 3.769727188
#> [1917,] 0.3449013113 -0.1383777375 0.353291050
#> [1918,] 1.7722288732 3.0045787517 3.877348670
#> [1919,] -0.4358090826 -1.2858010143 -1.257010766
#> [1920,] 0.4351229262 1.1806249029 1.197786805
#> [1921,] -0.3328855935 -0.8112303285 -0.865300413
#> [1922,] -1.2132142053 -2.2234089321 -2.746752237
#> [1923,] -0.2686729734 -0.2666572850 -0.483013347
#> [1924,] -0.7072108109 -1.8460116590 -1.906336639
#> [1925,] -0.1001292045 0.4435835994 0.121311250
#> [1926,] -0.0762659255 -0.0253042614 -0.109144859
#> [1927,] -0.7461231328 -0.9573531699 -1.461691255
#> [1928,] -0.4927263823 0.5086784995 -0.332124479
#> [1929,] 0.4524244088 0.5259924075 0.856067774
#> [1930,] 1.5097027491 1.5297970011 2.731541822
#> [1931,] -0.8642231308 -2.2910989903 -2.349132633
#> [1932,] -1.8803089155 -4.3043119384 -4.733419780
#> [1933,] -1.2339487082 -1.6904610032 -2.476843952
#> [1934,] -1.1830664331 -2.0364212248 -2.605388231
#> [1935,] 0.8687263510 1.0007680937 1.638668433

```

```

#> [1936,] -0.2167569414 -0.1053760761 -0.328770795
#> [1937,] -0.0103769322 -0.3395885357 -0.201397242
#> [1938,] -1.1622856543 -0.5665468910 -1.763756309
#> [1939,] 0.2735706226 0.7208687309 0.741188951
#> [1940,] 0.9824734615 1.4691563234 2.040444617
#> [1941,] 0.7468782648 -0.4618602603 0.675028855
#> [1942,] -3.1987245482 -5.4921757320 -7.036671855
#> [1943,] 0.5003423932 0.5454538729 0.926620822
#> [1944,] -0.8857886498 -2.2184556325 -2.335710373
#> [1945,] 1.3148212727 4.0295343296 3.875778154
#> [1946,] -3.4433860369 -5.7035900901 -7.459085858
#> [1947,] 1.9448376448 2.5142768852 3.820491279
#> [1948,] -0.3221033701 -0.0716113797 -0.441397650
#> [1949,] 0.0474295164 -0.2086134411 -0.056628086
#> [1950,] 0.3142804182 0.2158197134 0.511672176
#> [1951,] 1.6469438167 3.4812692973 3.985664054
#> [1952,] 1.4213721412 1.5522810846 2.633873081
#> [1953,] -1.2163312020 -2.2212993680 -2.749468348
#> [1954,] -0.4795590679 0.0616960787 -0.563761636
#> [1955,] -0.1990427290 0.4069540924 -0.022359740
#> [1956,] -0.0294671523 -1.0333603533 -0.610216669
#> [1957,] -0.0323046162 -0.5528610703 -0.347097944
#> [1958,] 0.0494494904 -0.6214297082 -0.283204964
#> [1959,] -0.8791462223 -1.5349990222 -1.948137598
#> [1960,] -0.2680814681 -1.7433125149 -1.301757580
#> [1961,] -1.3283496255 -2.7293142398 -3.171080022
#> [1962,] 0.1466969102 0.0962325782 0.236333107
#> [1963,] -0.1134731525 -1.0351205632 -0.715947281
#> [1964,] 2.2128187448 4.5227676418 5.269286524
#> [1965,] -1.4263886636 -2.7296434334 -3.293515392
#> [1966,] -0.7381483048 -2.0930218935 -2.081995401
#> [1967,] 0.6248683970 -0.0957169264 0.726079259
#> [1968,] -1.7670080852 -4.1746527479 -4.520180533
#> [1969,] 0.0632785256 0.7334375596 0.485934169
#> [1970,] -0.5540128888 -0.4948861022 -0.965483839
#> [1971,] 1.5377784312 3.0515563447 3.611064348
#> [1972,] -0.2528251964 -0.4010571360 -0.537837782
#> [1973,] 0.8009050213 1.6102810303 1.892350779
#> [1974,] 0.9547395567 0.9279025606 1.705487826
#> [1975,] -2.0268498475 -3.8765239435 -4.678748906
#> [1976,] -1.2501902780 -2.4035866607 -2.892851741
#> [1977,] 0.5041749171 1.6966577310 1.570269844
#> [1978,] -1.0757960906 -1.8819011793 -2.385872146
#> [1979,] -1.2683455112 -1.8402101659 -2.602840579
#> [1980,] -1.0826244880 -0.6669178883 -1.720122161

```

```

#> [1981,] 0.0744954620 -0.1337044866 0.018693930
#> [1982,] -0.4265536129 -0.3797157203 -0.742629982
#> [1983,] -0.4469569704 -2.3425715924 -1.857375381
#> [1984,] 0.2973813575 0.9091214113 0.875352808
#> [1985,] -1.6063907103 -3.2432652086 -3.803012853
#> [1986,] 0.4900643758 -0.2122200951 0.493327014
#> [1987,] -1.1020718015 -2.4515057634 -2.734744118
#> [1988,] -0.4801158316 -0.3081339635 -0.769696098
#> [1989,] 0.3344160949 1.7994598384 1.415634920
#> [1990,] 0.2520986456 -0.1012376982 0.258179185
#> [1991,] -0.7938883341 -0.8455404914 -1.459202132
#> [1992,] 0.5117474857 1.2904669345 1.354293796
#> [1993,] 0.6608945914 1.1880424318 1.483435885
#> [1994,] -0.6959272938 -1.1265905750 -1.493017742
#> [1995,] -0.3785091851 -1.5184193770 -1.314652415
#> [1996,] -1.4380127041 -1.8867257370 -2.840226303
#> [1997,] -0.5402247878 -1.1657940872 -1.320616201
#> [1998,] -0.7647926178 -2.1570247151 -2.150739202
#> [1999,] 0.6712066417 0.8688951638 1.319181429
#> [2000,] -1.9073299960 -3.2265891615 -4.169023497
#>
#> [[1]][[13]]$value[[1]]$decomposition
#> [1] "eigen"
#>
#>
#>
#> [[1]][[13]]$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. (2022). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>