

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
```

```
#> test-semmcci-mc-simple-med-defined-meanstructure
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-defined-mi-amelia
#> Test passed

#> test-semmcci-mc-simple-med-defined-mi-list
#> Test passed

#> test-semmcci-mc-simple-med-defined-mi-mice
#> Test passed

#> test-semmcci-mc-simple-med-defined-none
#> 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-meanstructure
#> 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-semccci-mc-methods
```

```
#> Monte Carlo Confidence Intervals
```

| #> | est | se | R | 0.05% | 0.5% | 2.5% | 97.5% | 99.5% | 99.95% |
|---------------------|--------|--------|-----|--------|--------|--------|--------|--------|--------|
| #> visual=~x1 | 1.0000 | 0.0000 | 100 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| #> visual=~x2 | 0.5535 | 0.0928 | 100 | 0.3658 | 0.3670 | 0.3745 | 0.7232 | 0.7398 | 0.7460 |
| #> visual=~x3 | 0.7294 | 0.0973 | 100 | 0.4947 | 0.5013 | 0.5245 | 0.9177 | 0.9398 | 0.9412 |
| #> textual=~x4 | 1.0000 | 0.0000 | 100 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| #> textual=~x5 | 1.1131 | 0.0642 | 100 | 0.9320 | 0.9528 | 0.9962 | 1.2329 | 1.2754 | 1.2811 |
| #> textual=~x6 | 0.9261 | 0.0484 | 100 | 0.8109 | 0.8152 | 0.8279 | 1.0056 | 1.0125 | 1.0148 |
| #> speed=~x7 | 1.0000 | 0.0000 | 100 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| #> speed=~x8 | 1.1800 | 0.1594 | 100 | 0.8162 | 0.8251 | 0.8491 | 1.4741 | 1.5203 | 1.5543 |
| #> speed=~x9 | 1.0815 | 0.1567 | 100 | 0.7791 | 0.7906 | 0.8194 | 1.3888 | 1.4788 | 1.5265 |
| #> x1~~x1 | 0.5491 | 0.1034 | 100 | 0.3079 | 0.3117 | 0.3323 | 0.7522 | 0.7755 | 0.7872 |
| #> x2~~x2 | 1.1338 | 0.1131 | 100 | 0.7719 | 0.8168 | 0.9233 | 1.3194 | 1.4047 | 1.4192 |
| #> x3~~x3 | 0.8443 | 0.0781 | 100 | 0.6700 | 0.6867 | 0.7098 | 0.9960 | 1.0268 | 1.0270 |
| #> x4~~x4 | 0.3712 | 0.0493 | 100 | 0.2245 | 0.2347 | 0.2732 | 0.4473 | 0.4824 | 0.5012 |
| #> x5~~x5 | 0.4463 | 0.0582 | 100 | 0.3240 | 0.3295 | 0.3503 | 0.5834 | 0.5951 | 0.5976 |
| #> x6~~x6 | 0.3562 | 0.0388 | 100 | 0.2716 | 0.2720 | 0.2757 | 0.4239 | 0.4467 | 0.4643 |
| #> x7~~x7 | 0.7994 | 0.0862 | 100 | 0.5388 | 0.5737 | 0.6500 | 0.9341 | 0.9605 | 0.9726 |
| #> x8~~x8 | 0.4877 | 0.0821 | 100 | 0.3131 | 0.3165 | 0.3519 | 0.6569 | 0.7233 | 0.7322 |
| #> x9~~x9 | 0.5661 | 0.0781 | 100 | 0.3889 | 0.3943 | 0.4098 | 0.7087 | 0.7472 | 0.7640 |
| #> visual~~visual | 0.8093 | 0.1452 | 100 | 0.4650 | 0.4807 | 0.5665 | 1.0951 | 1.1401 | 1.1515 |
| #> textual~~textual | 0.9795 | 0.1167 | 100 | 0.7401 | 0.7406 | 0.7632 | 1.1797 | 1.2478 | 1.2532 |
| #> speed~~speed | 0.3837 | 0.0860 | 100 | 0.1194 | 0.1475 | 0.2143 | 0.5283 | 0.5685 | 0.5821 |
| #> visual~~textual | 0.4082 | 0.0735 | 100 | 0.1955 | 0.2064 | 0.2453 | 0.5262 | 0.5619 | 0.5773 |
| #> visual~~speed | 0.2622 | 0.0589 | 100 | 0.0938 | 0.1169 | 0.1536 | 0.3689 | 0.4061 | 0.4121 |
| #> textual~~speed | 0.1735 | 0.0526 | 100 | 0.0173 | 0.0279 | 0.0595 | 0.2888 | 0.3019 | 0.3037 |

```
#> Monte Carlo Confidence Intervals (Multiple Imputation Estimates)
```

| #> | est | se | R | 0.05% | 0.5% | 2.5% | 97.5% | 99.5% | 99.95% |
|----------------|--------|--------|-----|--------|--------|--------|--------|--------|--------|
| #> visual=~x1 | 1.0000 | 0.0000 | 100 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| #> visual=~x2 | 0.5535 | 0.1016 | 100 | 0.2779 | 0.2866 | 0.3289 | 0.7385 | 0.7644 | 0.7795 |
| #> visual=~x3 | 0.7294 | 0.1108 | 100 | 0.4748 | 0.4789 | 0.5147 | 0.9321 | 0.9598 | 0.9696 |
| #> textual=~x4 | 1.0000 | 0.0000 | 100 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| #> textual=~x5 | 1.1131 | 0.0630 | 100 | 0.9293 | 0.9334 | 0.9942 | 1.2242 | 1.2268 | 1.2272 |
| #> textual=~x6 | 0.9261 | 0.0568 | 100 | 0.7393 | 0.7653 | 0.8114 | 1.0145 | 1.0708 | 1.0974 |
| #> speed=~x7 | 1.0000 | 0.0000 | 100 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| #> speed=~x8 | 1.1800 | 0.1660 | 100 | 0.7485 | 0.8043 | 0.8887 | 1.4708 | 1.4920 | 1.4971 |
| #> speed=~x9 | 1.0815 | 0.1478 | 100 | 0.7465 | 0.7555 | 0.7928 | 1.3002 | 1.3722 | 1.3824 |
| #> x1~~x1 | 0.5491 | 0.1148 | 100 | 0.2997 | 0.3090 | 0.3352 | 0.7697 | 0.8368 | 0.8821 |
| #> x2~~x2 | 1.1338 | 0.1094 | 100 | 0.8242 | 0.8499 | 0.9218 | 1.3138 | 1.3801 | 1.3984 |
| #> x3~~x3 | 0.8443 | 0.0891 | 100 | 0.5839 | 0.6102 | 0.6797 | 0.9903 | 1.0118 | 1.0209 |
| #> x4~~x4 | 0.3712 | 0.0500 | 100 | 0.2221 | 0.2405 | 0.2806 | 0.4580 | 0.5061 | 0.5099 |
| #> x5~~x5 | 0.4463 | 0.0569 | 100 | 0.3185 | 0.3219 | 0.3461 | 0.5652 | 0.5835 | 0.5939 |
| #> x6~~x6 | 0.3562 | 0.0412 | 100 | 0.2533 | 0.2618 | 0.2893 | 0.4297 | 0.4626 | 0.4806 |
| #> x7~~x7 | 0.7994 | 0.0831 | 100 | 0.5797 | 0.5944 | 0.6217 | 0.9245 | 0.9561 | 0.9822 |

```

#> x8~~x8          0.4877 0.0758 100 0.3171 0.3187 0.3335 0.6316 0.6428 0.6448
#> x9~~x9          0.5661 0.0735 100 0.3955 0.4139 0.4424 0.6957 0.7261 0.7390
#> visual~~visual  0.8093 0.1575 100 0.4702 0.4724 0.5042 1.1152 1.1960 1.1978
#> textual~~textual 0.9795 0.1054 100 0.7298 0.7337 0.8247 1.1905 1.2585 1.2974
#> speed~~speed    0.3837 0.0904 100 0.1679 0.1764 0.2008 0.5643 0.5883 0.6038
#> visual~~textual  0.4082 0.0709 100 0.2760 0.2782 0.2847 0.5535 0.5873 0.5925
#> visual~~speed    0.2622 0.0583 100 0.1080 0.1180 0.1396 0.3713 0.3891 0.4015
#> textual~~speed   0.1735 0.0461 100 0.0447 0.0572 0.0871 0.2602 0.2822 0.2847
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R 0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0533 100 0.6157 0.6231 0.6659 0.8635 0.8744 0.8809
#> visual=~x2      0.4236 0.0577 100 0.2906 0.2912 0.2988 0.5311 0.5899 0.6038
#> visual=~x3      0.5811 0.0483 100 0.4312 0.4402 0.4732 0.6510 0.6749 0.6926
#> textual=~x4      0.8516 0.0242 100 0.7944 0.7973 0.8008 0.8945 0.9150 0.9201
#> textual=~x5      0.8551 0.0220 100 0.7895 0.7918 0.8088 0.8936 0.9060 0.9125
#> textual=~x6      0.8380 0.0225 100 0.7871 0.7876 0.7915 0.8767 0.8818 0.8833
#> speed=~x7        0.5695 0.0587 100 0.3748 0.3920 0.4402 0.6542 0.6869 0.7104
#> speed=~x8        0.7230 0.0557 100 0.5709 0.5745 0.5935 0.8057 0.8220 0.8246
#> speed=~x9        0.6650 0.0593 100 0.5068 0.5070 0.5329 0.7640 0.7777 0.7815
#> x1~~x1           0.4042 0.0816 100 0.2240 0.2354 0.2544 0.5566 0.6117 0.6209
#> x2~~x2           0.8206 0.0492 100 0.6354 0.6517 0.7179 0.9107 0.9152 0.9156
#> x3~~x3           0.6623 0.0547 100 0.5203 0.5441 0.5762 0.7759 0.8061 0.8140
#> x4~~x4           0.2748 0.0412 100 0.1535 0.1628 0.1999 0.3586 0.3642 0.3689
#> x5~~x5           0.2689 0.0374 100 0.1673 0.1791 0.2015 0.3458 0.3731 0.3768
#> x6~~x6           0.2977 0.0375 100 0.2198 0.2225 0.2314 0.3735 0.3797 0.3804
#> x7~~x7           0.6757 0.0642 100 0.4952 0.5274 0.5720 0.8062 0.8460 0.8594
#> x8~~x8           0.4772 0.0783 100 0.3200 0.3244 0.3509 0.6477 0.6700 0.6741
#> x9~~x9           0.5578 0.0774 100 0.3893 0.3952 0.4163 0.7158 0.7430 0.7432
#> 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 0.2889 0.2949 0.3093 0.5686 0.5799 0.5850
#> visual~~speed    0.4705 0.0828 100 0.2175 0.2542 0.3355 0.6285 0.6681 0.6952
#> textual~~speed   0.2830 0.0749 100 0.0457 0.0639 0.1386 0.4219 0.4619 0.4799
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R 0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0591 100 0.6208 0.6228 0.6426 0.8714 0.8816 0.8849
#> visual=~x2      0.4236 0.0626 100 0.2568 0.2570 0.2842 0.5341 0.5535 0.5582
#> visual=~x3      0.5811 0.0534 100 0.4245 0.4373 0.4646 0.6588 0.6757 0.6843
#> textual=~x4      0.8516 0.0224 100 0.7929 0.7959 0.8086 0.8910 0.9080 0.9189
#> textual=~x5      0.8551 0.0210 100 0.8008 0.8030 0.8124 0.8867 0.8955 0.9015
#> textual=~x6      0.8380 0.0198 100 0.7910 0.7932 0.8025 0.8790 0.8837 0.8859
#> speed=~x7        0.5695 0.0575 100 0.4086 0.4189 0.4414 0.6663 0.6911 0.7005
#> speed=~x8        0.7230 0.0535 100 0.5880 0.5952 0.6155 0.8101 0.8319 0.8395
#> speed=~x9        0.6650 0.0556 100 0.5052 0.5298 0.5605 0.7568 0.7711 0.7732
#> x1~~x1           0.4042 0.0900 100 0.2170 0.2228 0.2406 0.5871 0.6121 0.6146

```

```

#> x2~~x2          0.8206 0.0511 100 0.6884 0.6937 0.7146 0.9192 0.9340 0.9341
#> x3~~x3          0.6623 0.0605 100 0.5318 0.5434 0.5659 0.7841 0.8085 0.8198
#> x4~~x4          0.2748 0.0382 100 0.1556 0.1755 0.2061 0.3462 0.3666 0.3713
#> x5~~x5          0.2689 0.0357 100 0.1873 0.1981 0.2138 0.3401 0.3551 0.3588
#> x6~~x6          0.2977 0.0332 100 0.2152 0.2190 0.2274 0.3559 0.3708 0.3743
#> x7~~x7          0.6757 0.0648 100 0.5093 0.5223 0.5561 0.8051 0.8244 0.8330
#> x8~~x8          0.4772 0.0765 100 0.2952 0.3079 0.3437 0.6211 0.6457 0.6543
#> x9~~x9          0.5578 0.0731 100 0.4022 0.4054 0.4273 0.6858 0.7185 0.7446
#> 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 0.0604 100 0.3252 0.3323 0.3486 0.5835 0.6110 0.6173
#> visual~~speed    0.4705 0.0662 100 0.3101 0.3294 0.3579 0.5829 0.6428 0.6477
#> textual~~speed   0.2830 0.0647 100 0.0899 0.1108 0.1599 0.4065 0.4185 0.4222
#> Monte Carlo Confidence Intervals
#> Monte Carlo Confidence Intervals (Multiple Imputation Estimates)
#> Standardized Monte Carlo Confidence Intervals
#> Standardized Monte Carlo Confidence Intervals

#> test-semmcci-npd

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

#> test-semmcci-zzz-coverage
#> test-semmcci-zzz-heywood

#> lavaan 0.6.15 ended normally after 18 iterations
#>
#> Estimator ML
#> Optimization method NLMINB
#> Number of model parameters 8
#>
#> Number of observations 50
#>
#> Model Test User Model:
#>
#> Test statistic 0.000
#> Degrees of freedom 2
#> P-value (Chi-square) 1.000
#>
#> Parameter Estimates:
#>
#> Standard errors Standard
#> Information Expected

```

```

#> Information saturated (h1) model          Structured
#>
#> Latent Variables:
#>           Estimate Std.Err  z-value  P(>|z|)
#>   eta1 =~
#>     y1           1.000
#>     y2           0.991    0.152    6.524    0.000
#>     y3           0.901    0.138    6.537    0.000
#>     y4           1.399    0.143    9.814    0.000
#>
#> Variances:
#>           Estimate Std.Err  z-value  P(>|z|)
#>   .y1           0.000    0.055    0.000    1.000
#>   .y2           0.980    0.203    4.822    0.000
#>   .y3           0.807    0.167    4.820    0.000
#>   .y4           0.696    0.176    3.960    0.000
#>   eta1          0.980    0.204    4.815    0.000
#>
#> Standardized Monte Carlo Confidence Intervals
#>           est se R 0.05% 0.5% 2.5% 97.5% 99.5% 99.95%
#> eta1=~y1  1.0000 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y2  0.7039 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y3  0.7047 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y4  0.8566 NA 0    NA    NA    NA    NA    NA    NA
#> y1~~y1    0.0000 NA 0    NA    NA    NA    NA    NA    NA
#> y2~~y2    0.5045 NA 0    NA    NA    NA    NA    NA    NA
#> y3~~y3    0.5034 NA 0    NA    NA    NA    NA    NA    NA
#> y4~~y4    0.2662 NA 0    NA    NA    NA    NA    NA    NA
#> eta1~~eta1 1.0000 NA 0    NA    NA    NA    NA    NA    NA
#> [[1]]
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#> [[1]][[1]]$value
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#> [1] TRUE
#>
#>
#> [[1]][[1]]$visible
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#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
#> [[1]][[2]]$value[[1]]
#> [1] TRUE
#>

```

```

#>
#> [[1]][[2]]$visible
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#>
#> [[1]][[3]]
#> [[1]][[3]]$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]]
#> Monte Carlo Confidence Intervals
#>
#>          est      se      R    0.05%    0.5%    2.5%
#> ses=~education      1.0000  0.0000 20000    1.0000    1.0000    1.0000
#> ses=~sei           5.2195  0.4248 20000    3.8353    4.1272    4.3971
#> alien67=~anomia67    1.0000  0.0000 20000    1.0000    1.0000    1.0000
#> alien67=~powerless67 0.9787  0.0617 20000    0.7794    0.8225    0.8579
#> alien71=~anomia71    1.0000  0.0000 20000    1.0000    1.0000    1.0000
#> alien71=~powerless71 0.9221  0.0594 20000    0.7238    0.7719    0.8059
#> alien71~alien67      0.6070  0.0510 20000    0.4349    0.4733    0.5077
#> alien71~ses         -0.2268  0.0524 20000   -0.4068   -0.3642   -0.3288
#> alien67~ses         -0.5750  0.0561 20000   -0.7588   -0.7209   -0.6867
#> anomia67~~anomia71    1.6229  0.3130 20000    0.6136    0.8173    1.0057
#> powerless67~~powerless71 0.3387  0.2619 20000   -0.5278   -0.3387   -0.1658
#> education~~education  2.8013  0.5062 20000    1.1724    1.5200    1.8072
#> sei~~sei            264.5971 18.1177 20000  209.1080 217.8148 228.8225
#> anomia67~~anomia67    4.7307  0.4506 20000    3.2547    3.5702    3.8491
#> powerless67~~powerless67 2.5634  0.4030 20000    1.2929    1.5387    1.7855
#> anomia71~~anomia71    4.3992  0.5142 20000    2.7484    3.0903    3.3983

```

```

#> powerless71~~powerless71 3.0699 0.4336 20000 1.6536 1.9815 2.2256
#> ses~~ses 6.7983 0.6475 20000 4.7835 5.1492 5.5278
#> alien67~~alien67 4.8415 0.4681 20000 3.3552 3.6363 3.9143
#> alien71~~alien71 4.0832 0.4033 20000 2.7275 3.0295 3.2839
#> 97.5% 99.5% 99.95%
#> ses=~education 1.0000 1.0000 1.0000
#> ses=~sei 6.0549 6.3162 6.6130
#> alien67=~anomia67 1.0000 1.0000 1.0000
#> alien67=~powerless67 1.0994 1.1367 1.1800
#> alien71=~anomia71 1.0000 1.0000 1.0000
#> alien71=~powerless71 1.0389 1.0736 1.1149
#> alien71~alien67 0.7063 0.7380 0.7652
#> alien71~ses -0.1244 -0.0947 -0.0553
#> alien67~ses -0.4649 -0.4317 -0.3955
#> anomia67~~anomia71 2.2345 2.4434 2.6633
#> powerless67~~powerless71 0.8571 1.0169 1.1933
#> education~~education 3.7951 4.1042 4.4450
#> sei~~sei 299.9381 310.8187 323.0384
#> anomia67~~anomia67 5.6175 5.8855 6.1737
#> powerless67~~powerless67 3.3638 3.6147 3.8562
#> anomia71~~anomia71 5.4112 5.7434 6.0764
#> powerless71~~powerless71 3.9226 4.1893 4.4509
#> ses~~ses 8.0599 8.4564 8.9531
#> alien67~~alien67 5.7571 6.0571 6.4733
#> alien71~~alien71 4.8705 5.1313 5.3979
#>
#>
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#>
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#>
#>
#> [[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]]$value[[1]]
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#>
#>
#> [[1]][[10]]$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]]$value[[1]]
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#>
#>
#> [[1]][[13]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[14]]
#> [[1]][[14]]$value
#> [[1]][[14]]$value[[1]]
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#>
#>
#> [[1]][[14]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[15]]
#> [[1]][[15]]$value
#> [[1]][[15]]$value[[1]]
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#>
#>
#> [[1]][[15]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[16]]
#> [[1]][[16]]$value
#> [[1]][[16]]$value[[1]]
#> [1] TRUE
#>
#>
```



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#> [1] TRUE
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#>
#> [[1]][[19]]
#> [[1]][[19]]$value
#> [[1]][[19]]$value[[1]]
#> [[1]][[19]]$value[[1]]$thetahatstar
#>
#>          y1          y2          y3
#> [1,]  1.1061788942  1.954840104  2.464236932
#> [2,] -0.1063564581  1.659720573  0.788451095
#> [3,]  1.1956922948  2.274313849  2.753152869
#> [4,] -0.0940942210  0.417894862  0.114580578
#> [5,]  1.7031035948  3.056394155  3.819906237
#> [6,] -0.7323499872 -2.667917917 -2.393808240
#> [7,]  0.1596883088  0.517374697  0.486249360
#> [8,] -1.3323464922 -1.836647025 -2.680671103
#> [9,] -0.3763629859 -1.022954139 -1.037013685
#> [10,] -0.0530244630  0.218022493  0.054872932
#> [11,] -1.1134567852 -1.016602591 -1.952629776
#> [12,]  0.9771802369  2.105351736  2.386905892
#> [13,]  0.1587364874 -0.101155568  0.141804057
#> [14,] -0.8847744823 -1.616896073 -2.000605358
#> [15,] -0.1699778536 -0.247715964 -0.349430905
#> [16,] -1.8399657041 -2.581209847 -3.726863100
#> [17,]  0.8365324341  1.890688989  2.092392113
#> [18,]  0.7633708563  1.188642111  1.611554493
#> [19,] -1.0595581441 -1.636124726 -2.229228116
#> [20,] -1.0367334131 -2.596471202 -2.733718229
#> [21,]  0.5963745833 -0.023112058  0.730840717
#> [22,]  1.2545295521  0.703740168  1.954919093
#> [23,] -0.7234888923 -2.765854802 -2.437109507
#> [24,]  0.2443412686 -0.753203090 -0.113307602
#> [25,]  0.4082934285  1.720689168  1.464044024
#> [26,] -0.0985228661 -0.048431394 -0.149733400
#> [27,] -0.1021450453 -0.420571408 -0.360772311
#> [28,] -1.9011040049 -3.510124014 -4.318609785
#> [29,]  0.8103487750  2.066692695  2.157416312
#> [30,] -0.8168030550 -2.741266313 -2.539824782
#> [31,]  0.2443497127  0.725306572  0.707213888
#> [32,]  0.0467276071 -0.736851673 -0.350653455
#> [33,]  0.0321486173 -0.534094413 -0.256311368
#> [34,]  1.3993374001  1.035211467  2.319444218
#> [35,]  0.7403442133  1.547607595  1.782051554
#> [36,] -0.0655746402 -0.276991027 -0.235488662
#> [37,] -2.5113709856 -3.429160114 -5.034668688

```

```

#> [38,] -0.8890900362 -1.499808128 -1.941007858
#> [39,] -0.2334216056  0.507012768 -0.009701123
#> [40,] -0.7293217130 -0.767134531 -1.335176847
#> [41,] -0.4621087372 -0.342841240 -0.766502704
#> [42,] -0.1811186592 -1.317219833 -0.956853132
#> [43,] -0.5312745841 -0.939341538 -1.183783796
#> [44,] -0.8269149958 -1.531921614 -1.881298491
#> [45,] -0.1815009503  0.187892760 -0.122055368
#> [46,]  0.1734184268  1.197187191  0.880638008
#> [47,] -0.4580517738 -0.255794565 -0.713136493
#> [48,]  0.5927850094  1.189814037  1.399487792
#> [49,] -0.1618009791  0.653624008  0.160971438
#> [50,] -0.0309612403 -1.502846239 -0.872624777
#> [51,] -1.0779836183 -1.303524927 -2.067625344
#> [52,]  0.7518661192  1.294735466  1.656085691
#> [53,]  0.7049381857  1.220395763  1.556312092
#> [54,]  0.6603818940  0.830152417  1.284182587
#> [55,]  1.9291196870  5.001590235  5.181246077
#> [56,]  0.9277434642  1.262936552  1.857754087
#> [57,] -1.6991106421 -2.577877381 -3.549370331
#> [58,] -0.2778818626 -1.531536730 -1.196451778
#> [59,]  0.6051863356  0.059722092  0.787798278
#> [60,] -1.0798297048 -1.626189993 -2.248992978
#> [61,]  2.1485095712  3.071513111  4.383708793
#> [62,] -1.7476941182 -2.760290350 -3.711184495
#> [63,]  0.0169846801 -0.464494136 -0.236595249
#> [64,]  1.9327906236  2.975597393  4.061482457
#> [65,] -0.0807670641  1.057027701  0.485891237
#> [66,]  0.3503353385  2.862028026  2.025166749
#> [67,]  1.0972948418  1.262548942  2.068966090
#> [68,]  2.7619858140  4.052275064  5.692982976
#> [69,] -0.6683795339 -1.425891343 -1.624765643
#> [70,]  0.6925464536  1.338211948  1.606242905
#> [71,]  1.5347655122  2.761963789  3.446595555
#> [72,]  1.3204721548  1.635859421  2.554435333
#> [73,] -1.3217457596 -2.085697677 -2.805664891
#> [74,] -0.4424733632 -0.795284950 -0.993105110
#> [75,]  1.6880072673  2.017617606  3.224603931
#> [76,] -0.5045482583 -1.370993037 -1.390005122
#> [77,]  0.0113866386  0.624179813  0.360592569
#> [78,] -1.7073862277 -2.833793000 -3.701712272
#> [79,]  0.8019091132  0.875695354  1.485938566
#> [80,] -2.0948672430 -3.168266078 -4.370511749
#> [81,] -0.3756923527 -0.446917811 -0.716501375
#> [82,] -0.9531469371 -1.501936246 -2.022066524

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```

#> [83,] -0.1539114056  1.164645275  0.454404983
#> [84,] -1.2741962524 -0.963390864 -2.123538332
#> [85,]  0.8143875996  1.904303815  2.072333614
#> [86,] -0.1688038721  0.262472965 -0.064833479
#> [87,]  0.1552177180  0.283403646  0.350830487
#> [88,] -0.8037148253 -2.246525776 -2.248943743
#> [89,] -0.0808544257  0.361815691  0.099968740
#> [90,] -0.9191810016 -2.039369293 -2.277964535
#> [91,] -0.4000449855 -2.209902375 -1.725251231
#> [92,] -2.1785110904 -3.627323047 -4.729571319
#> [93,]  1.7505958074  3.050512590  3.875864035
#> [94,]  0.5867981079  0.936583302  1.251489792
#> [95,]  1.7368673002  3.591241408  4.158826722
#> [96,]  0.8188538856  1.641544978  1.932082829
#> [97,] -2.7153402917 -5.093476722 -6.212640289
#> [98,] -0.7344160059 -0.389103912 -1.131738160
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#> [101,] -0.8825364753 -0.816846105 -1.553820373
#> [102,]  1.3936519877  1.906713869  2.796001971
#> [103,] -0.8138348412 -1.139621582 -1.647277712
#> [104,]  0.6223188274  0.684968726  1.156147850
#> [105,] -3.2987685443 -6.006376493 -7.446784571
#> [106,] -0.6968202550 -1.514470919 -1.709388598
#> [107,]  0.9639393603  1.842566551  2.224560013
#> [108,] -1.0219514496 -1.597906308 -2.161123713
#> [109,]  0.5269301245  0.030599154  0.674052367
#> [110,] -0.2978263664 -0.895095131 -0.868123726
#> [111,]  1.6930246314  2.755430668  3.640315841
#> [112,]  0.8036243375  1.022674711  1.569644805
#> [113,] -1.0686588655 -1.297167268 -2.052469333
#> [114,]  0.0453506106  0.490901491  0.328981061
#> [115,] -0.0666280027  0.122070206 -0.015339907
#> [116,]  0.3648282113  0.215139513  0.574326760
#> [117,] -1.9906646680 -3.900487585 -4.646925543
#> [118,]  0.1059166249  0.128484708  0.203379504
#> [119,]  0.5901185843  0.535331350  1.032952325
#> [120,]  1.0632031990  1.627819451  2.229164345
#> [121,] -0.6741534960 -0.665833841 -1.210165564
#> [122,] -0.2637437479  0.630500649  0.021018388
#> [123,]  0.6270020806  1.276839388  1.490451208
#> [124,] -0.2251878440 -0.050089542 -0.308602247
#> [125,]  0.1383887964  0.256496515  0.314912833
#> [126,]  1.2418829331  1.113615627  2.166612736
#> [127,]  1.2498035295  2.457710062  2.922405695

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#> [128,] 1.1568318954 3.890995162 3.601885186
#> [129,] 0.9430007990 0.294922741 1.339572536
#> [130,] -0.2590691278 -0.368827075 -0.527737503
#> [131,] -0.4200516065 -2.092412270 -1.684996990
#> [132,] -0.6734290603 -1.081848340 -1.440132837
#> [133,] 0.3427907870 -0.226243815 0.301897275
#> [134,] 0.0758754214 0.295965823 0.258863743
#> [135,] -0.1422164740 -1.051726903 -0.761005440
#> [136,] -0.9935808921 -2.917795380 -2.858229381
#> [137,] -1.7739738751 -1.292524748 -2.929406360
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#> [140,] 0.3716813718 1.524652019 1.309597126
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#> [142,] -1.2870361117 -2.074762017 -2.756313834
#> [143,] -0.7708585822 -2.110892499 -2.132701888
#> [144,] -1.5902564336 -2.666975889 -3.463077295
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#> [146,] -1.1431708709 -2.392829930 -2.753431188
#> [147,] 0.5285133017 0.330533592 0.842477612
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#> [149,] 0.3945071633 0.423658095 0.727054891
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#> [151,] 1.2561528191 1.952375992 2.649883878
#> [152,] -0.8714294580 -0.534291429 -1.383164134
#> [153,] -1.1345532599 -2.483854457 -2.793200004
#> [154,] -0.0344178365 0.164510284 0.048377980
#> [155,] -0.7902740097 -2.023764539 -2.108560160
#> [156,] 0.4573068428 0.129750671 0.642258495
#> [157,] -1.4429272906 -1.237715730 -2.486181310
#> [158,] -0.7198296471 -1.819582529 -1.907405009
#> [159,] 3.1223406912 4.734664308 6.521035619
#> [160,] 0.0491429343 -0.138530306 -0.015598283
#> [161,] 0.6632322115 0.788631470 1.264694487
#> [162,] -0.6921601565 -2.907655180 -2.476736485
#> [163,] -1.3289630139 -2.653891918 -3.129988674
#> [164,] 1.5252495270 2.372140367 3.218393638
#> [165,] 0.8753447955 0.632426958 1.442507590
#> [166,] -0.0891918990 -0.272752887 -0.262586911
#> [167,] -0.0526729018 1.092630963 0.540682404
#> [168,] 0.3715141308 0.714938235 0.860031331
#> [169,] -0.2314517111 -0.121338305 -0.355953242
#> [170,] -1.1971568116 -1.038438771 -2.069120167
#> [171,] -0.7457763757 -0.625434554 -1.277057921
#> [172,] 0.0516619555 -0.665886752 -0.305117863

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#> [173,] -0.3212567457  0.808968849  0.048343232
#> [174,] -1.0606753199 -2.882961260 -2.922563286
#> [175,] -0.3466536671 -0.215550791 -0.551891717
#> [176,] -0.1014696588  0.219581391 -0.004672117
#> [177,]  1.3159439784  1.065465822  2.232244223
#> [178,] -1.4744507057 -2.209755489 -3.064931735
#> [179,] -0.9818244839 -1.286335624 -1.938177521
#> [180,] -1.9080883828 -3.787830296 -4.481434521
#> [181,] -0.7049143469 -2.009704631 -1.994315741
#> [182,] -0.1215374384  1.259467530  0.547397041
#> [183,] -0.2319346683 -1.106288805 -0.903161769
#> [184,] -0.9313635951 -0.969538969 -1.699444942
#> [185,]  0.8756116763  1.890922478  2.141252707
#> [186,]  1.2526170479  1.573258748  2.435080646
#> [187,]  0.3165709162  1.444939375  1.196638332
#> [188,]  1.2635545144  3.000765032  3.240925665
#> [189,]  0.5534988840  1.939004267  1.766268005
#> [190,]  0.4709288482  1.577822650  1.462864179
#> [191,]  0.8957286546  1.417812571  1.903781979
#> [192,] -1.6440355951 -2.645916777 -3.518451887
#> [193,]  1.9409408312  4.028001613  4.655685879
#> [194,]  0.3525682695  0.402847188  0.663208764
#> [195,] -2.4175675967 -5.210264857 -5.906136337
#> [196,]  1.7376927997  3.265365113  3.979008402
#> [197,] -0.7565610910 -1.586688762 -1.823962081
#> [198,] -1.2438764132 -3.650066246 -3.576722463
#> [199,]  2.3509886885  3.855552215  5.071304998
#> [200,]  1.0606942602  1.996606002  2.430696845
#> [201,]  0.4203745302 -0.140389750  0.446288032
#> [202,] -0.8976685615 -1.276893336 -1.827996727
#> [203,] -0.3921878863 -0.614234175 -0.829924545
#> [204,] -0.4874216342 -1.061062014 -1.196649830
#> [205,] -0.5779002988 -0.423322236 -0.955556003
#> [206,]  0.0248861828  0.294486205  0.194460077
#> [207,] -0.8978972690 -1.051889176 -1.703414033
#> [208,] -3.0208320674 -6.073245050 -7.137312703
#> [209,]  0.8324461614  1.194401391  1.700886149
#> [210,]  0.6976220463  0.358939299  1.069116746
#> [211,]  2.4826024172  4.056529436  5.346958577
#> [212,]  1.1575404281  1.924031554  2.511186261
#> [213,]  1.6647646928  2.639781726  3.540895953
#> [214,]  0.3899508485 -0.056445530  0.454935848
#> [215,]  0.8559334899  1.234021767  1.752162019
#> [216,] -1.0865076839 -1.400424876 -2.132030095
#> [217,] -1.6512025961 -3.636227543 -4.076970004

```



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#> [218,] -0.9494599571 -1.671256528 -2.111434602
#> [219,] -1.8494004441 -5.638004330 -5.435020984
#> [220,] 0.7869066841 1.126819695 1.606594338
#> [221,] 1.1550816274 1.475423043 2.259161246
#> [222,] 1.2653496439 2.990290446 3.237351198
#> [223,] 2.1133591367 3.791334772 4.739347802
#> [224,] -1.5066714105 -2.581430065 -3.311374126
#> [225,] -1.9859220159 -3.346827883 -4.333753599
#> [226,] 0.6261176633 0.633519867 1.132332958
#> [227,] -1.2451587088 -1.467792643 -2.367250977
#> [228,] -0.5009682382 -0.815295242 -1.077151900
#> [229,] 0.5150929410 1.856972210 1.672852221
#> [230,] -0.7791195508 -0.418905362 -1.204021126
#> [231,] -1.0494455689 -3.160201654 -3.062416827
#> [232,] -0.6607660787 -1.021654438 -1.390937262
#> [233,] 1.3968965966 2.149726672 2.934909863
#> [234,] 1.4477211832 3.184035158 3.572284991
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#> [237,] -1.4163583428 -2.406971061 -3.101938129
#> [238,] -0.0315382069 0.704748079 0.351778177
#> [239,] 1.1199990250 0.819541106 1.851426941
#> [240,] -0.6391174054 -2.322338462 -2.085766984
#> [241,] -0.3784562311 -0.993662587 -1.023368334
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#> [243,] -1.3028068431 -3.329180337 -3.472129262
#> [244,] -0.8351957588 -2.364199307 -2.353503708
#> [245,] 0.1312996622 0.115083095 0.227594300
#> [246,] 1.2714678201 1.843691514 2.608666037
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#> [249,] -0.6286343409 -2.406681064 -2.119501429
#> [250,] 1.0450355148 0.903938350 1.804785910
#> [251,] -0.1448573194 -1.421250433 -0.969368608
#> [252,] 2.3392578733 3.476361743 4.846242075
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#> [258,] 0.0915584055 0.130457718 0.186570036
#> [259,] -0.5348828531 -0.355749287 -0.864413968
#> [260,] 0.8811002577 1.774865847 2.083690285
#> [261,] 1.0488789457 1.008535132 1.867625425
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#> [1702,] -0.7046181054 -0.359972770 -1.078414222

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#> [1747,] 0.0799702073 0.199034132 0.210176827

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#> [1777,] -1.7546616429 -4.289584788 -4.568567242
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#> [1788,] -0.5296153083 -1.931091045 -1.732094166
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#> [1790,] 1.5550582530 2.162907492 3.139449025
#> [1791,] -0.9835818547 -1.300872534 -1.948436303
#> [1792,] 2.9913401195 4.866031226 6.430583716

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#> [1801,]  2.1562137594  3.858499240  4.830060110
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#> [1840,] -1.8943887140 -2.881078875 -3.961142239
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#> [1850,] -1.1840582079 -1.338810277 -2.219480085
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#> [1882,] 0.6300539731 2.544532473 2.197773442

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#> [1928,] 0.9516828523 1.574857770 2.060709233
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#> [1941,] 0.5878249344 1.640482906 1.643405033
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#> [1948,] -1.9119110669 -2.564248366 -3.807164588
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#> [1958,] 0.8996821523 0.762604790 1.545099023
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#> [1960,] -0.6244526681 -1.522494057 -1.623600198
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#> [1968,] -0.9851479674 -2.350914849 -2.533118736
#> [1969,] 0.8338655289 1.131525302 1.667762475
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#> [1972,] -0.6009049400 0.121834347 -0.681703243

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#> [1973,] -0.4187052022 -1.348984104 -1.270746546
#> [1974,] -0.2814198011 -0.809665291 -0.800255090
#> [1975,] -1.4086053715 -1.579159552 -2.632869603
#> [1976,] 0.5005903615 1.254085235 1.320190770
#> [1977,] -1.3568409194 -2.081880544 -2.847309490
#> [1978,] 0.2213222885 1.253829008 0.971806984
#> [1979,] 1.7853307578 2.160434990 3.425222008
#> [1980,] -0.2490981423 -1.368861843 -1.070281314
#> [1981,] -3.0577878945 -6.350404893 -7.337207974
#> [1982,] -1.2543325273 -2.425835534 -2.910364234
#> [1983,] 0.3625843622 0.438219914 0.695329009
#> [1984,] 0.7696267707 1.253431218 1.655310733
#> [1985,] -0.3139857948 0.120900407 -0.324439218
#> [1986,] -0.6400097629 -0.530305073 -1.092376233
#> [1987,] -0.7553922481 -0.255811989 -1.083923670
#> [1988,] -1.3791333634 -2.550609916 -3.135232890
#> [1989,] -1.6192516522 -3.701165568 -4.073165714
#> [1990,] -0.9785075023 -1.090325145 -1.825263703
#> [1991,] -1.0641980880 -1.592628534 -2.210875466
#> [1992,] 1.0433163944 1.335057884 2.041895493
#> [1993,] -1.5493470091 -1.644157804 -2.844442863
#> [1994,] -0.7145459358 -1.132466421 -1.519495657
#> [1995,] -0.5122162506 -0.630550455 -0.988652320
#> [1996,] 0.3573166209 1.714188622 1.396869454
#> [1997,] 1.0160310867 0.915715035 1.775153547
#> [1998,] -0.6622144691 -0.844874244 -1.294637769
#> [1999,] -0.5461691557 -1.781839398 -1.669908061
#> [2000,] 0.3162502839 2.444504805 1.750955474
#>
#> [[1]][[19]]$value[[1]]$decomposition
#> [1] "eigen"
#>
#>
#>
#> [[1]][[19]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[20]]
#> [[1]][[20]]$value
#> [[1]][[20]]$value[[1]]
#> [[1]][[20]]$value[[1]]$M
#> [1] 2
#>
#> [[1]][[20]]$value[[1]]$est

```



```

#> [1] 0 0 0
#>
#> [[1]][[20]]$value[[1]]$within
#>      [,1] [,2] [,3]
#> [1,]    1    0    0
#> [2,]    0    1    0
#> [3,]    0    0    1
#>
#> [[1]][[20]]$value[[1]]$between
#>      [,1] [,2] [,3]
#> [1,]    0    0    0
#> [2,]    0    0    0
#> [3,]    0    0    0
#>
#> [[1]][[20]]$value[[1]]$total
#>      [,1] [,2] [,3]
#> [1,]    1    0    0
#> [2,]    0    1    0
#> [3,]    0    0    1
#>
#> [[1]][[20]]$value[[1]]$ariv
#> [1] NA
#>
#> [[1]][[20]]$value[[1]]$total_adj
#> [1] NA
#>
#>
#>
#> [[1]][[20]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[21]]
#> [[1]][[21]]$value
#> [[1]][[21]]$value[[1]]
#>
#>      est se R 0.05% 0.5% 2.5% 97.5% 99.5% 99.95%
#> eta1=~y1  1.0000 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y2  0.7039 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y3  0.7047 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y4  0.8566 NA 0    NA    NA    NA    NA    NA    NA
#> y1~~y1    0.0000 NA 0    NA    NA    NA    NA    NA    NA
#> y2~~y2    0.5045 NA 0    NA    NA    NA    NA    NA    NA
#> y3~~y3    0.5034 NA 0    NA    NA    NA    NA    NA    NA
#> y4~~y4    0.2662 NA 0    NA    NA    NA    NA    NA    NA
#> eta1~~eta1 1.0000 NA 0    NA    NA    NA    NA    NA    NA

```

```
#>  
#>  
#> [[1]][[21]]$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/>