

# 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-semmcci-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	0.1036	100	0.2905	0.3006	0.3393	0.7554	0.7776	0.7871
#> visual=~x3	0.7294	0.1151	100	0.4492	0.4699	0.5257	1.0067	1.0294	1.0307
#> textual=~x4	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> textual=~x5	1.1131	0.0703	100	0.9292	0.9530	0.9972	1.2425	1.2831	1.3070
#> textual=~x6	0.9261	0.0518	100	0.7373	0.7705	0.8227	1.0097	1.0260	1.0300
#> speed=~x7	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> speed=~x8	1.1800	0.1541	100	0.8224	0.8245	0.9344	1.4488	1.5937	1.6411
#> speed=~x9	1.0815	0.1410	100	0.7107	0.7568	0.8409	1.3371	1.3696	1.3723
#> x1~~x1	0.5491	0.1242	100	0.1970	0.2215	0.2815	0.8076	0.8556	0.8630
#> x2~~x2	1.1338	0.1003	100	0.8546	0.8746	0.9059	1.2873	1.3672	1.3739
#> x3~~x3	0.8443	0.1018	100	0.5149	0.5377	0.6188	1.0398	1.0842	1.0940
#> x4~~x4	0.3712	0.0456	100	0.2802	0.2834	0.2944	0.4500	0.4792	0.4979
#> x5~~x5	0.4463	0.0603	100	0.2583	0.2625	0.3292	0.5477	0.5838	0.5902
#> x6~~x6	0.3562	0.0403	100	0.2501	0.2554	0.2773	0.4368	0.4534	0.4548
#> x7~~x7	0.7994	0.0771	100	0.6097	0.6323	0.6738	0.9653	0.9765	0.9797
#> x8~~x8	0.4877	0.0763	100	0.3245	0.3269	0.3433	0.6452	0.6720	0.6744
#> x9~~x9	0.5661	0.0612	100	0.4070	0.4071	0.4278	0.6797	0.7136	0.7216
#> visual~~visual	0.8093	0.1484	100	0.5274	0.5389	0.5693	1.0824	1.1589	1.2070
#> textual~~textual	0.9795	0.1098	100	0.6739	0.7147	0.7719	1.1857	1.2017	1.2124
#> speed~~speed	0.3837	0.0754	100	0.2087	0.2142	0.2321	0.5412	0.5486	0.5524
#> visual~~textual	0.4082	0.0730	100	0.2226	0.2377	0.2894	0.5457	0.5788	0.5871
#> visual~~speed	0.2622	0.0527	100	0.1513	0.1530	0.1657	0.3692	0.4076	0.4180
#> textual~~speed	0.1735	0.0395	100	0.0728	0.0817	0.0965	0.2550	0.2664	0.2715

```
#> 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	0.0933	100	0.3237	0.3474	0.3880	0.7689	0.8001	0.8232
#> visual=~x3	0.7294	0.1070	100	0.5019	0.5171	0.5636	0.9352	0.9496	0.9569
#> textual=~x4	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> textual=~x5	1.1131	0.0664	100	0.9670	0.9681	1.0092	1.2316	1.2556	1.2676
#> textual=~x6	0.9261	0.0584	100	0.7974	0.7995	0.8121	1.0274	1.0387	1.0405
#> speed=~x7	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> speed=~x8	1.1800	0.1771	100	0.7525	0.7587	0.7759	1.4897	1.6021	1.6345
#> speed=~x9	1.0815	0.1735	100	0.6198	0.6925	0.7900	1.4403	1.4995	1.5133
#> x1~~x1	0.5491	0.1043	100	0.3002	0.3341	0.3774	0.7828	0.7999	0.8012
#> x2~~x2	1.1338	0.1020	100	0.8572	0.8836	0.9220	1.2941	1.3198	1.3260
#> x3~~x3	0.8443	0.0841	100	0.6825	0.6890	0.7032	1.0076	1.0621	1.0948
#> x4~~x4	0.3712	0.0477	100	0.2451	0.2565	0.2724	0.4573	0.4766	0.4910
#> x5~~x5	0.4463	0.0605	100	0.3093	0.3103	0.3233	0.5676	0.5872	0.6004
#> x6~~x6	0.3562	0.0463	100	0.2605	0.2638	0.2782	0.4489	0.4788	0.5023
#> x7~~x7	0.7994	0.0855	100	0.4949	0.5668	0.6580	0.9449	1.0476	1.0744

```

#> x8~~x8          0.4877 0.0622 100 0.3725 0.3738 0.3856 0.6224 0.6416 0.6452
#> x9~~x9          0.5661 0.0789 100 0.3534 0.3590 0.3876 0.7031 0.7479 0.7834
#> visual~~visual  0.8093 0.1295 100 0.3942 0.4494 0.5237 0.9762 1.0354 1.0571
#> textual~~textual 0.9795 0.1193 100 0.7305 0.7372 0.7579 1.2185 1.2778 1.3107
#> speed~~speed    0.3837 0.0962 100 0.0800 0.1316 0.1973 0.5446 0.5900 0.5969
#> visual~~textual  0.4082 0.0726 100 0.2116 0.2283 0.2561 0.5429 0.5632 0.5722
#> visual~~speed    0.2622 0.0563 100 0.1421 0.1465 0.1680 0.3664 0.3848 0.3849
#> textual~~speed   0.1735 0.0494 100 0.0652 0.0755 0.0905 0.2801 0.2937 0.3004
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0582 100 0.6162 0.6247 0.6548 0.8881 0.9101 0.9174
#> visual=~x2      0.4236 0.0630 100 0.2841 0.2849 0.2937 0.5237 0.5398 0.5449
#> visual=~x3      0.5811 0.0610 100 0.4254 0.4286 0.4514 0.7232 0.7404 0.7443
#> textual=~x4      0.8516 0.0227 100 0.7873 0.7914 0.8018 0.8909 0.8932 0.8940
#> textual=~x5      0.8551 0.0236 100 0.7902 0.7971 0.8116 0.8999 0.9155 0.9240
#> textual=~x6      0.8380 0.0225 100 0.7771 0.7801 0.7942 0.8758 0.8867 0.8949
#> speed=~x7       0.5695 0.0454 100 0.4417 0.4437 0.4623 0.6493 0.6538 0.6570
#> speed=~x8       0.7230 0.0533 100 0.5745 0.5773 0.6046 0.8026 0.8375 0.8483
#> speed=~x9       0.6650 0.0521 100 0.5212 0.5259 0.5616 0.7562 0.7870 0.8033
#> x1~~x1          0.4042 0.0896 100 0.1585 0.1716 0.2111 0.5712 0.6096 0.6203
#> x2~~x2          0.8206 0.0522 100 0.7031 0.7086 0.7256 0.9137 0.9188 0.9193
#> x3~~x3          0.6623 0.0713 100 0.4460 0.4518 0.4769 0.7962 0.8163 0.8190
#> x4~~x4          0.2748 0.0384 100 0.2007 0.2022 0.2063 0.3572 0.3737 0.3802
#> x5~~x5          0.2689 0.0404 100 0.1462 0.1617 0.1901 0.3413 0.3645 0.3755
#> x6~~x6          0.2977 0.0376 100 0.1991 0.2137 0.2330 0.3692 0.3914 0.3961
#> x7~~x7          0.6757 0.0508 100 0.5684 0.5725 0.5785 0.7860 0.8032 0.8049
#> x8~~x8          0.4772 0.0754 100 0.2803 0.2985 0.3558 0.6345 0.6667 0.6699
#> x9~~x9          0.5578 0.0683 100 0.3547 0.3803 0.4282 0.6846 0.7234 0.7284
#> 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 0.0669 100 0.2822 0.3109 0.3588 0.5930 0.6164 0.6249
#> visual~~speed    0.4705 0.0732 100 0.3222 0.3332 0.3685 0.6634 0.6855 0.6880
#> textual~~speed   0.2830 0.0636 100 0.1326 0.1510 0.1752 0.4157 0.4605 0.4715
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0539 100 0.5741 0.6008 0.6364 0.8409 0.8618 0.8719
#> visual=~x2      0.4236 0.0611 100 0.2749 0.2793 0.3029 0.5352 0.5904 0.6158
#> visual=~x3      0.5811 0.0547 100 0.4200 0.4224 0.4790 0.6783 0.7032 0.7172
#> textual=~x4      0.8516 0.0231 100 0.7979 0.8026 0.8117 0.8944 0.9026 0.9047
#> textual=~x5      0.8551 0.0226 100 0.7869 0.7981 0.8151 0.8978 0.9072 0.9093
#> textual=~x6      0.8380 0.0243 100 0.7638 0.7659 0.7773 0.8768 0.8886 0.8888
#> speed=~x7       0.5695 0.0655 100 0.2814 0.3585 0.4493 0.6705 0.7111 0.7392
#> speed=~x8       0.7230 0.0521 100 0.5395 0.5500 0.5822 0.7728 0.7950 0.8072
#> speed=~x9       0.6650 0.0591 100 0.5006 0.5018 0.5319 0.7628 0.8118 0.8256
#> x1~~x1          0.4042 0.0800 100 0.2397 0.2571 0.2929 0.5950 0.6381 0.6702

```

```

#> x2~~x2      0.8206 0.0526 100 0.6206 0.6506 0.7135 0.9081 0.9220 0.9244
#> x3~~x3      0.6623 0.0625 100 0.4856 0.5052 0.5399 0.7706 0.8216 0.8236
#> x4~~x4      0.2748 0.0392 100 0.1816 0.1853 0.2000 0.3411 0.3558 0.3634
#> x5~~x5      0.2689 0.0385 100 0.1732 0.1769 0.1939 0.3356 0.3629 0.3808
#> x6~~x6      0.2977 0.0404 100 0.2100 0.2104 0.2311 0.3958 0.4133 0.4166
#> x7~~x7      0.6757 0.0710 100 0.4534 0.4933 0.5504 0.7981 0.8640 0.9194
#> x8~~x8      0.4772 0.0710 100 0.3484 0.3678 0.4028 0.6610 0.6973 0.7090
#> x9~~x9      0.5578 0.0773 100 0.3184 0.3408 0.4181 0.7169 0.7482 0.7494
#> 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 0.0623 100 0.3250 0.3368 0.3562 0.5971 0.6170 0.6190
#> visual~~speed   0.4705 0.0810 100 0.3143 0.3167 0.3363 0.6505 0.6882 0.7065
#> textual~~speed   0.2830 0.0689 100 0.1129 0.1262 0.1535 0.4347 0.4742 0.4878
#> 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]]
#> [[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]]
#> 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  0.4226 20000    3.8900    4.1293    4.3905
#> alien67=~anomia67    1.0000  0.0000 20000    1.0000    1.0000    1.0000
#> alien67=~powerless67 0.9787  0.0614 20000    0.7692    0.8177    0.8582
#> alien71=~anomia71    1.0000  0.0000 20000    1.0000    1.0000    1.0000
#> alien71=~powerless71 0.9221  0.0588 20000    0.7367    0.7697    0.8064
#> alien71~alien67      0.6070  0.0510 20000    0.4424    0.4737    0.5061
#> alien71~ses         -0.2268  0.0525 20000   -0.3998   -0.3657   -0.3310
#> alien67~ses         -0.5750  0.0562 20000   -0.7731   -0.7205   -0.6865
#> anomia67~~anomia71    1.6229  0.3142 20000    0.5592    0.8237    1.0069
#> powerless67~~powerless71 0.3387  0.2598 20000   -0.5226   -0.3340   -0.1708
#> education~~education  2.8013  0.5062 20000    1.1528    1.4997    1.8166
#> sei~~sei           264.5971 18.0858 20000  203.3303 218.4079 228.8985
#> anomia67~~anomia67    4.7307  0.4533 20000    3.2498    3.5630    3.8506
#> powerless67~~powerless67 2.5634  0.4018 20000    1.2944    1.5456    1.7690
#> anomia71~~anomia71    4.3992  0.5116 20000    2.7155    3.0462    3.3949

```

```

#> powerless71~~powerless71 3.0699 0.4275 20000 1.6771 1.9761 2.2268
#> ses~~ses 6.7983 0.6450 20000 4.6753 5.1468 5.5541
#> alien67~~alien67 4.8415 0.4680 20000 3.2711 3.6305 3.9353
#> alien71~~alien71 4.0832 0.4038 20000 2.7358 3.0300 3.2974
#> 97.5% 99.5% 99.95%
#> ses=~education 1.0000 1.0000 1.0000
#> ses=~sei 6.0543 6.3285 6.6037
#> alien67=~anomia67 1.0000 1.0000 1.0000
#> alien67=~powerless67 1.0986 1.1340 1.1765
#> alien71=~anomia71 1.0000 1.0000 1.0000
#> alien71=~powerless71 1.0370 1.0721 1.1122
#> alien71~alien67 0.7056 0.7362 0.7682
#> alien71~ses -0.1234 -0.0920 -0.0540
#> alien67~ses -0.4655 -0.4319 -0.4020
#> anomia67~~anomia71 2.2355 2.4242 2.6515
#> powerless67~~powerless71 0.8483 1.0044 1.1778
#> education~~education 3.7910 4.0927 4.4747
#> sei~~sei 300.2449 311.3400 324.8932
#> anomia67~~anomia67 5.6238 5.8925 6.1298
#> powerless67~~powerless67 3.3466 3.5964 3.8882
#> anomia71~~anomia71 5.3854 5.6930 6.0102
#> powerless71~~powerless71 3.9145 4.1804 4.5006
#> ses~~ses 8.0557 8.4682 8.9722
#> alien67~~alien67 5.7598 6.0594 6.3755
#> alien71~~alien71 4.8829 5.1132 5.3753
#>
#>
#> [[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]]
#> [[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]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[13]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[14]]
#> [[1]][[14]]$value
#> [[1]][[14]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[14]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[15]]
#> [[1]][[15]]$value
#> [[1]][[15]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[15]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[16]]
#> [[1]][[16]]$value
#> [[1]][[16]]$value[[1]]
#> [1] TRUE
#>
#>
#>

```



```

#> [1] TRUE
#>
#>
#> [[1]][[19]]
#> [[1]][[19]]$value
#> [[1]][[19]]$value[[1]]
#> [[1]][[19]]$value[[1]]$thetahatstar
#>
#>          y1          y2          y3
#> [1,] -0.4388223728 -1.873142553 -1.5867182409
#> [2,] -0.3777017873 -0.835561340 -0.9346879854
#> [3,]  1.9443314122  3.919655905  4.5997865333
#> [4,]  1.6381550663  3.888367188  4.2006269468
#> [5,]  1.1324687274  2.003175962  2.5238441953
#> [6,] -1.0543797583 -0.825096396 -1.7726840080
#> [7,] -1.1959077998 -2.814660333 -3.0532912753
#> [8,]  0.1964833125 -0.289035420  0.0846081262
#> [9,] -0.3680566319 -0.678481232 -0.8354877902
#> [10,] -1.2229548448 -2.288765013 -2.7951685041
#> [11,]  0.8142407543  2.002111583  2.1264297173
#> [12,] -2.6312981904 -3.532263481 -5.2414335183
#> [13,]  2.1433356952  3.365422961  4.5403647358
#> [14,] -0.7733049087 -2.189254723 -2.1792401605
#> [15,] -0.1991139569  0.259854493 -0.1040826791
#> [16,]  1.4632818019  2.838001752  3.3996547124
#> [17,]  1.1715846665  0.590378480  1.7885775217
#> [18,] -1.4554640436 -4.157893462 -4.1223907656
#> [19,] -0.4108019655 -0.997616567 -1.0658970989
#> [20,] -1.6120903189 -2.885766062 -3.6117230904
#> [21,]  0.2431292711  0.369915644  0.5084649372
#> [22,] -1.3729125716 -2.671803527 -3.1947330691
#> [23,] -0.7685043276 -1.693146924 -1.8979348760
#> [24,] -0.5500693595 -0.650728282 -1.0470522239
#> [25,]  0.5612569783  0.755124945  1.1189387332
#> [26,] -1.7135611441 -3.301594599 -3.9690225678
#> [27,]  0.8096911359  1.224745773  1.6893509582
#> [28,] -1.2675726176 -1.897490621 -2.6336650510
#> [29,]  2.0142332800  2.098412626  3.6762389687
#> [30,]  0.3529973171 -0.628564658  0.0913533863
#> [31,] -0.0892212856  0.237809700  0.0207173037
#> [32,]  1.1511899399  0.306447245  1.6055757658
#> [33,] -1.0179783242 -2.594810383 -2.7094093303
#> [34,]  0.1224456490 -0.984639588 -0.3937465197
#> [35,]  2.0078316735  3.260404862  4.3131133368
#> [36,] -0.1435743097  0.815459573  0.2735116855
#> [37,]  0.5192352397  0.493542946  0.9213714248

```

```

#> [38,] -0.2144411560 -0.144153860 -0.3474031048
#> [39,] -1.2254244118 -2.638793876 -2.9924993680
#> [40,] -1.0638903213 -1.302016453 -2.0492141500
#> [41,] 0.9196175258 1.530266908 1.9959783629
#> [42,] 0.5856704929 1.816010646 1.7381290350
#> [43,] 1.2000622301 1.371296920 2.2574655011
#> [44,] -0.5740894601 -2.336765437 -2.0126848294
#> [45,] 0.2414615162 0.202832227 0.4136609797
#> [46,] -1.0298407585 -2.560027912 -2.7048987292
#> [47,] -0.1416945135 0.076793180 -0.1340731685
#> [48,] 1.9286209614 3.941647838 4.5924005238
#> [49,] -0.5168803884 -0.239824153 -0.7776316658
#> [50,] -1.1884876383 -0.569824776 -1.7982487378
#> [51,] 1.1370011567 1.753471314 2.3909204169
#> [52,] -0.5666757938 -0.719936801 -1.1061679392
#> [53,] -0.3470923698 -1.758958608 -1.4089654895
#> [54,] 0.4667798971 0.567472055 0.8969882429
#> [55,] 0.9998549589 0.850640990 1.7188688755
#> [56,] 1.4655493713 1.730512122 2.7878719492
#> [57,] 1.6371700387 2.827620042 3.6107283825
#> [58,] -3.4204656241 -6.455962064 -7.8480395166
#> [59,] 0.0804810495 -0.917706442 -0.4089304258
#> [60,] -1.6530052691 -1.627323268 -2.9643601364
#> [61,] 0.4461671368 1.250759998 1.2504807517
#> [62,] -0.5309876036 -1.748102542 -1.6322544330
#> [63,] -0.2744585819 -0.203744566 -0.4553139573
#> [64,] -0.0105686958 1.501146085 0.8198942796
#> [65,] -0.5908607437 -0.278110218 -0.8911308232
#> [66,] 0.8682272977 1.670531931 2.0097370116
#> [67,] 0.1096777572 0.785067259 0.5724453857
#> [68,] 0.1229243912 0.104013402 0.2110072917
#> [69,] -0.3018442578 -1.405297668 -1.1562750016
#> [70,] -2.1517137389 -4.177227241 -5.0013293725
#> [71,] 0.1722791221 -0.695760584 -0.1712894426
#> [72,] 1.1243161860 2.101776653 2.5683973976
#> [73,] -0.0583656981 -0.515920068 -0.3590948725
#> [74,] -1.2928221842 -2.560470629 -3.0330768924
#> [75,] 0.7488296898 0.947862719 1.4597994741
#> [76,] 1.0158976578 1.680988774 2.1996820487
#> [77,] -1.7103651092 -2.062585479 -3.2774389906
#> [78,] 1.4387684086 3.876958773 3.9456646589
#> [79,] -0.0233923320 0.048069355 -0.0024932813
#> [80,] -0.9055962377 -1.314775619 -1.8589054590
#> [81,] -1.1070834587 -1.444357603 -2.1820684903
#> [82,] 3.7670317731 6.731236978 8.4329664877

```

```

#> [83,] -0.0069686161 0.106924817 0.0506490747
#> [84,] -1.2000244464 -2.428292931 -2.8440069175
#> [85,] 0.0513462492 0.164242024 0.1551751725
#> [86,] 0.9507316358 1.796811971 2.1826983737
#> [87,] 2.1426647188 3.118642793 4.4025753807
#> [88,] -0.0271324526 -0.979319213 -0.5773147764
#> [89,] 2.0632914373 3.933665210 4.7559018360
#> [90,] 0.9033308381 2.125435265 2.3059627152
#> [91,] 0.7687739026 1.782301685 1.9477481906
#> [92,] -0.7671460188 -1.228510181 -1.6383871537
#> [93,] -0.5076506849 -1.103063123 -1.2451839001
#> [94,] 0.1435546269 0.426799409 0.4158654945
#> [95,] 1.2717966738 2.630788681 3.0458820845
#> [96,] -0.8097453231 -2.904370773 -2.6215400810
#> [97,] 1.0159075998 1.383726854 2.0347265267
#> [98,] 0.9613187641 1.724097591 2.1555468702
#> [99,] -0.4508906887 -0.988159102 -1.1106384215
#> [100,] 1.8374054364 2.643418095 3.7581934715
#> [101,] 0.8674346640 1.394633807 1.8556367061
#> [102,] 0.1174810317 0.610425544 0.4852570703
#> [103,] 0.3701948464 0.569253717 0.7775374023
#> [104,] 0.5224229141 2.172951406 1.8573477716
#> [105,] 0.1478925513 0.565158936 0.4980585424
#> [106,] 0.4974432586 -0.177715237 0.5216770816
#> [107,] -0.6902716791 -0.749441608 -1.2766634196
#> [108,] 0.8493975682 1.152217630 1.6986139868
#> [109,] 1.6737806246 2.435170115 3.4385877583
#> [110,] -2.1124550869 -3.344801470 -4.4904131831
#> [111,] -0.0334099341 0.391995810 0.1758797563
#> [112,] -0.5506004631 -0.920056384 -1.1971803195
#> [113,] 1.0634397629 2.384189716 2.6492131654
#> [114,] -1.1037745542 0.211474556 -1.2590248316
#> [115,] -0.6173362756 -0.910812935 -1.2752687893
#> [116,] -0.9483995725 -2.597675177 -2.6242358874
#> [117,] 1.8883696380 3.299571895 4.1858826783
#> [118,] 0.6298026404 1.808302555 1.7888832551
#> [119,] -0.8483779071 -1.240240579 -1.7461915417
#> [120,] -1.4175548736 -3.632212653 -3.7833879639
#> [121,] -1.7929060162 -2.900407458 -3.8453219388
#> [122,] 0.7848526989 1.468847103 1.7938439521
#> [123,] 1.0029143017 1.365703937 2.0085221841
#> [124,] -0.3928005810 -2.328669872 -1.7821285953
#> [125,] 1.4641626508 3.552937204 3.7975123563
#> [126,] 1.2161450025 2.219015442 2.7479686783
#> [127,] 0.8147015919 1.787473687 2.0078893270

```

```

#> [128,] 0.8913019814 1.994555948 2.2183304346
#> [129,] -1.5348036346 -2.698442896 -3.4113916570
#> [130,] -0.9619771727 -1.532197052 -2.0498711275
#> [131,] 0.2581711291 -0.343858888 0.1311068459
#> [132,] -0.8255523700 -1.161609906 -1.6740918308
#> [133,] -1.9471234398 -2.424716447 -3.7736393258
#> [134,] -1.4761809444 -2.400146638 -3.1727484238
#> [135,] 0.1838090730 0.105711411 0.2878715721
#> [136,] -0.2403649693 -0.623282730 -0.6456260339
#> [137,] 0.2538899419 0.211350577 0.4338863007
#> [138,] -0.3989679041 -2.499433422 -1.8845857418
#> [139,] 0.9744462586 2.102389419 2.3818527143
#> [140,] 0.8976621820 1.465143116 1.9324595189
#> [141,] -1.4907653949 -2.556955762 -3.2779574349
#> [142,] 0.7007199640 0.977100936 1.4160336133
#> [143,] -1.5086818552 -3.056339231 -3.5774358126
#> [144,] 1.0912163087 1.285638178 2.0741998422
#> [145,] 0.3569315041 0.901968442 0.9456410270
#> [146,] 0.0956657347 -0.107680281 0.0595351725
#> [147,] -1.8763883960 -2.580454743 -3.7718624024
#> [148,] -1.0353273693 -1.556929502 -2.1550628012
#> [149,] 0.0841452253 0.166298467 0.1972160664
#> [150,] -0.0230491468 -0.532480463 -0.3242461791
#> [151,] -0.8577770478 -3.101023503 -2.7905686939
#> [152,] -0.4682077211 -0.394495015 -0.8027736950
#> [153,] 2.1027376620 2.865226773 4.2121518744
#> [154,] 0.6934908496 0.957000649 1.3958642372
#> [155,] -0.4944848073 -0.444960353 -0.8635468355
#> [156,] -2.3395845165 -3.830513278 -5.0431886670
#> [157,] 1.6366108391 3.770644876 4.1333703729
#> [158,] 0.3394761337 0.146613673 0.5046842651
#> [159,] -0.5354663273 -1.358246520 -1.4214855402
#> [160,] -0.1729616774 1.203641717 0.4522910752
#> [161,] -1.6638380107 -2.391085981 -3.4017246731
#> [162,] 0.4580230476 0.338419289 0.7589539350
#> [163,] 0.1457679826 1.146737128 0.8181607959
#> [164,] -0.8326012053 -2.086884973 -2.1963705075
#> [165,] -1.9654705299 -2.262054620 -3.7062472692
#> [166,] 0.8716987134 2.058757561 2.2295147667
#> [167,] 1.7441244320 2.226837663 3.4106892631
#> [168,] -0.1060252834 0.820574483 0.3231731163
#> [169,] -2.8908639891 -5.487557851 -6.6502132863
#> [170,] -0.7065744053 -0.896575443 -1.3786457052
#> [171,] -1.3012939843 -3.196549324 -3.3966380987
#> [172,] -1.0450491056 -1.692455602 -2.2423969194

```

```

#> [173,] 2.4564375835 5.347113496 6.0305516825
#> [174,] -0.1198252555 -0.807097891 -0.5973251879
#> [175,] 0.1256655823 0.169399866 0.2507122513
#> [176,] 1.4246286364 3.225662409 3.5665904375
#> [177,] -0.6437868503 -0.472842474 -1.0651968479
#> [178,] -0.7558911414 -1.477164610 -1.7623453485
#> [179,] -2.3129339850 -4.519443707 -5.3922835418
#> [180,] 1.9896938270 3.875578908 4.6318916514
#> [181,] 1.1403735205 1.964748815 2.5123758531
#> [182,] 1.6080217948 2.209208627 3.2311886735
#> [183,] -0.4812902808 -1.520822799 -1.4441521432
#> [184,] -0.6373230804 -0.731854023 -1.2008772239
#> [185,] -1.2797235232 -0.247760232 -1.7332856876
#> [186,] -1.5675068952 -1.377271474 -2.7189771317
#> [187,] -1.2618778622 -2.335957618 -2.8698946326
#> [188,] -0.2999957152 0.080357243 -0.3294936327
#> [189,] 1.8179506917 3.488988192 4.2031898032
#> [190,] -0.0914527799 1.140365371 0.5188152850
#> [191,] 0.1213511126 1.227765559 0.8326808435
#> [192,] -0.7552995276 0.090500381 -0.8916191834
#> [193,] -0.5721375405 -1.374124123 -1.4760251999
#> [194,] 0.5781377890 0.653899885 1.0838130897
#> [195,] 0.7977198706 0.351040431 1.1895531498
#> [196,] -0.1882221851 0.724892174 0.1675755810
#> [197,] -1.6867107383 -3.179135542 -3.8675810101
#> [198,] -0.0011763179 -0.147439530 -0.0832896105
#> [199,] 0.9182920155 1.263842497 1.8464710852
#> [200,] 0.9737243416 1.561543620 2.0808057241
#> [201,] -1.7671051715 -3.285691081 -4.0269650917
#> [202,] 0.8858441616 1.202405451 1.7719142846
#> [203,] 0.0902710387 0.107313127 0.1721204365
#> [204,] -2.1385293701 -3.411121729 -4.5597322497
#> [205,] -2.0724646446 -4.079817066 -4.8484487992
#> [206,] 0.3645467689 0.919029627 0.9646053505
#> [207,] 0.6008037264 0.461787660 1.0054628098
#> [208,] 0.7873498444 1.850965292 2.0090174378
#> [209,] -0.0167322845 1.122415058 0.6020285464
#> [210,] -0.5160404929 -0.206392506 -0.7580311688
#> [211,] 0.6237043146 1.022519336 1.3452019796
#> [212,] 1.3041971418 2.012768394 2.7433094231
#> [213,] 0.0697127410 0.563206909 0.3994866204
#> [214,] -0.7873110541 -1.594196200 -1.8664729716
#> [215,] -2.0040842291 -2.125614783 -3.6786793675
#> [216,] -2.2171738821 -3.245066743 -4.5656467873
#> [217,] 0.4487738648 -0.298413336 0.3940049487

```



```

#> [218,] 0.6362856750 0.267763406 0.9420327383
#> [219,] 1.5309509486 3.096246213 3.6273516219
#> [220,] 0.7685362653 0.595913737 1.2890562219
#> [221,] 2.1692044744 4.237975734 5.0568528331
#> [222,] -0.4654175192 -1.207670617 -1.2505727833
#> [223,] -0.1594223620 0.086271903 -0.1509191398
#> [224,] 2.2293408233 3.483920464 4.7133725292
#> [225,] -0.4720340430 0.263803606 -0.4422168675
#> [226,] 2.1734226328 2.444995921 4.0670840627
#> [227,] -0.6066180106 -1.341236922 -1.5007706236
#> [228,] -1.5436120542 -1.364232078 -2.6819444336
#> [229,] -2.1138964792 -3.855554294 -4.7756570032
#> [230,] 0.4088174871 2.248817924 1.7577868625
#> [231,] 0.0874131994 0.193372102 0.2163158973
#> [232,] -2.5727653199 -4.082514687 -5.4738106037
#> [233,] 1.4452016826 1.847237417 2.8272764479
#> [234,] -2.0821092554 -3.944086296 -4.7851505379
#> [235,] -0.2114670820 -0.715460634 -0.6607458349
#> [236,] 1.2935088643 2.024139561 2.7362918811
#> [237,] 0.9952260454 3.288908351 3.0662330147
#> [238,] 0.4997044298 0.483639773 0.8915210566
#> [239,] -1.7020595321 -3.993852052 -4.3388541957
#> [240,] 0.1787806802 1.299157851 0.9439140762
#> [241,] -0.1895670955 0.296709103 -0.0717251724
#> [242,] -0.5183013422 -2.019795080 -1.7672129073
#> [243,] -0.4790626445 -1.252736174 -1.2925974739
#> [244,] 1.0953790709 2.895452899 2.9727704921
#> [245,] 1.0581042380 0.971411221 1.8585269599
#> [246,] 0.0478338402 1.107575190 0.6743056817
#> [247,] 0.3649811406 -0.300584308 0.2883123320
#> [248,] -0.0931115804 -1.339788790 -0.8596349259
#> [249,] -0.9330803070 -2.166594047 -2.3659010966
#> [250,] 0.3649543300 1.130387085 1.0824081109
#> [251,] 0.9772869230 2.489637795 2.6003016005
#> [252,] 0.9236282143 1.267593131 1.8552066609
#> [253,] 0.3843426991 0.618471433 0.8224932578
#> [254,] 1.3491055139 2.092187955 2.8433837788
#> [255,] 1.4960429847 3.789134649 3.9683461751
#> [256,] -0.0551765083 -0.047927669 -0.0954018302
#> [257,] 0.3131777333 1.150256553 1.0288704738
#> [258,] -0.0470782816 -1.040265706 -0.6360095697
#> [259,] 2.2854993327 3.875212071 5.0005515044
#> [260,] 0.0892650136 -1.283322337 -0.6008785160
#> [261,] 0.6000381257 2.405440357 2.0831539913
#> [262,] -0.0654985927 -1.141362696 -0.7150839192

```

```

#> [263,] 0.6038222918 1.086657167 1.3560033136
#> [264,] -0.2386278661 -2.255129634 -1.5490666110
#> [265,] -0.7074049075 -0.795723415 -1.3237126711
#> [266,] 0.2253064901 1.683627798 1.2152955358
#> [267,] 0.3343992628 0.710478114 0.8112746675
#> [268,] 1.1200284504 1.891159753 2.4461671171
#> [269,] -0.1212344499 -0.245113484 -0.2872046073
#> [270,] 0.7922301339 1.445246564 1.7899461519
#> [271,] 2.4012488871 4.298605859 5.3798546638
#> [272,] 0.5776487271 2.268874424 1.9794464933
#> [273,] 1.9987819854 2.866861739 4.0834286038
#> [274,] -0.6994895773 -1.088364097 -1.4762457425
#> [275,] 2.7280936079 4.117479079 5.6869055850
#> [276,] 1.2914070080 1.909928259 2.6702884180
#> [277,] -1.5722695874 -3.179655395 -3.7251637254
#> [278,] -0.0890834800 0.772678164 0.3177187480
#> [279,] -0.8420234121 -0.602073931 -1.3841118450
#> [280,] 0.3868584224 0.442400348 0.7279182329
#> [281,] -0.8833266242 -1.597971022 -1.9882972975
#> [282,] -0.2816585007 0.013067764 -0.3439703440
#> [283,] -0.9012919601 -3.278861287 -2.9435234262
#> [284,] 0.4982635819 0.498216929 0.8978140599
#> [285,] -0.4394448640 0.860404723 -0.0704901843
#> [286,] -0.0862131632 0.528630386 0.1858616753
#> [287,] 2.2906659196 3.696484735 4.9078079447
#> [288,] -0.6030914340 -0.936632166 -1.2718343548
#> [289,] -0.1205277425 -1.057811934 -0.7373369716
#> [290,] 0.6920431212 1.807504272 1.8660528517
#> [291,] -0.0708513468 0.056335372 -0.0570864118
#> [292,] -1.2821581081 -1.803555296 -2.5997226879
#> [293,] 0.6896775734 1.306859833 1.5852663588
#> [294,] 0.4595008393 0.629943900 0.9225806645
#> [295,] -0.7290564164 0.001505626 -0.9082829220
#> [296,] 0.2195162461 1.452037249 1.0795521611
#> [297,] -1.3474449602 -2.833797354 -3.2528752688
#> [298,] -0.9498932405 -1.185741446 -1.8425343545
#> [299,] -0.6071887920 -0.579538152 -1.0787714494
#> [300,] -0.6424718368 -2.013365926 -1.9184830701
#> [301,] 1.1873938023 1.731328018 2.4414704162
#> [302,] 1.8430547604 3.272881504 4.1145639005
#> [303,] -1.5220904469 -2.589957385 -3.3353336546
#> [304,] -0.5089611169 -1.128342036 -1.2608467203
#> [305,] -1.8037271318 -2.808118685 -3.8075992440
#> [306,] 0.9862073503 1.220616455 1.9071714788
#> [307,] -0.7982825297 -1.836877716 -2.0148322585

```

```

#> [308,] -0.4202353868 -0.081715108 -0.5693734198
#> [309,] -0.4163780796 -0.170892335 -0.6140530636
#> [310,] -0.6929711758 0.149105392 -0.7813736722
#> [311,] -0.2005112447 1.468975908 0.5651866935
#> [312,] -0.3523466446 -1.293659872 -1.1572961452
#> [313,] 1.7656276821 2.465672516 3.5700467211
#> [314,] 0.0411658160 0.440880907 0.2960033778
#> [315,] -0.5675582016 -0.801591967 -1.1525834818
#> [316,] -0.4418010932 -1.515889129 -1.3921719519
#> [317,] 1.8766713524 2.156258026 3.5368038256
#> [318,] -0.4661614247 -0.210136306 -0.6979106407
#> [319,] -1.0175157764 -1.567341274 -2.1386302056
#> [320,] -0.3542126048 -0.037853580 -0.4627030459
#> [321,] 3.1836699208 5.113109314 6.8075330505
#> [322,] -2.3806364808 -3.331242189 -4.8173050780
#> [323,] 1.9161232196 4.396407585 4.8291887142
#> [324,] 0.8834824568 2.220488424 2.3339627119
#> [325,] 0.2608991079 0.799423243 0.7689822958
#> [326,] 0.4205435938 1.340374444 1.2682609814
#> [327,] 0.2908753917 -0.617238272 0.0201742819
#> [328,] -1.0983075578 -1.664297543 -2.2931825787
#> [329,] -1.6803741771 -2.485739537 -3.4748736957
#> [330,] 0.7045735087 0.958684704 1.4106186675
#> [331,] -1.2949642155 -2.109964318 -2.7857358208
#> [332,] -1.4817636083 -1.259929553 -2.5469371485
#> [333,] 0.5710868031 1.203919733 1.3802586417
#> [334,] 0.7543237278 1.509287204 1.7782175104
#> [335,] 0.4707311646 1.374010838 1.3495106494
#> [336,] 1.1372591264 2.251143918 2.6674295585
#> [337,] -1.1373593926 -1.258792401 -2.1168410445
#> [338,] 1.8737202703 2.727236272 3.8499929076
#> [339,] 0.0994393690 -0.542429473 -0.1770267823
#> [340,] -1.2940484913 -2.194257302 -2.8313730083
#> [341,] -2.4133893896 -3.957797568 -5.2058592903
#> [342,] -0.8179637523 -1.560125104 -1.8857882290
#> [343,] -1.4402265129 -3.007154909 -3.4647781576
#> [344,] -1.0501029015 -1.037911095 -1.8854541027
#> [345,] 0.3445404491 2.392736988 1.7575037621
#> [346,] -1.5281082221 -2.803345880 -3.4612593783
#> [347,] 1.9291976183 3.444042495 4.3169694717
#> [348,] 1.2542809975 1.937847706 2.6394871647
#> [349,] 0.2441978013 0.294428740 0.4679053011
#> [350,] 1.4226652878 3.163140647 3.5294452219
#> [351,] 0.1755658451 1.242537087 0.9084830887
#> [352,] -0.0235827522 -0.264956246 -0.1764468346

```

```

#> [353,] -0.0193462701  0.046448714  0.0016526872
#> [354,]  0.1645152588  0.625863142  0.5524750125
#> [355,]  0.0069758048 -0.596012237 -0.3220631516
#> [356,]  0.8386396142  1.714775786  1.9973952611
#> [357,]  0.6344387740  0.948061457  1.3172666263
#> [358,]  0.4253177031  1.092571460  1.1366939175
#> [359,] -2.1588562512 -4.196646789 -5.0210129757
#> [360,] -2.7268445435 -4.959914844 -6.1528646052
#> [361,]  0.4490415942  0.919182892  1.0700537297
#> [362,]  0.6293672285  0.595254939  1.1151496665
#> [363,]  0.8189549943  2.036009034  2.1511199449
#> [364,] -0.6145098852  0.657768694 -0.4012472073
#> [365,]  0.6764682685  2.289746082  2.1142553420
#> [366,] -3.4367509410 -5.169638734 -7.1544913820
#> [367,]  0.1044953278 -0.082736986  0.0843879794
#> [368,]  0.8543317669  2.232836876  2.3044652699
#> [369,]  0.0768098980  0.760206846  0.5176633476
#> [370,] -0.0287805418  0.885482896  0.4555171853
#> [371,] -3.5365084330 -7.216398101 -8.4147526947
#> [372,]  1.1787667749  2.011266330  2.5860667315
#> [373,]  0.3650763072  1.909404663  1.5148823541
#> [374,]  0.5378430052  0.020979394  0.6823219429
#> [375,] -1.0925258693 -2.775728585 -2.9027706265
#> [376,] -0.0979645065  0.620087111  0.2219626433
#> [377,] -1.1022515237 -2.266166566 -2.6321127327
#> [378,] -1.2151931563 -1.985923578 -2.6174255197
#> [379,] -1.6419056968 -3.846899536 -4.1822910960
#> [380,]  0.1829829728  2.272548371  1.4893452339
#> [381,]  1.3077994342  2.215742634  2.8604436135
#> [382,]  2.2229047230  4.443780693  5.2380290833
#> [383,] -1.6878632312 -3.398188890 -3.9905835819
#> [384,] -0.5535420751 -0.748772285 -1.1057929464
#> [385,] -0.4059904259 -1.430356507 -1.3000497560
#> [386,]  0.4425418677  0.965065722  1.0874117533
#> [387,]  1.2345887878  1.999691018  2.6492518294
#> [388,]  0.3510686339  1.070037000  1.0316011608
#> [389,] -1.0276838393 -2.448012415 -2.6400451839
#> [390,] -0.0548701466 -0.334846172 -0.2542475597
#> [391,]  1.9777595021  3.544540848  4.4332975283
#> [392,] -1.3980165926 -2.981560864 -3.3979396246
#> [393,] -1.1464558340 -2.207548475 -2.6547040197
#> [394,]  0.8439375763  0.741465392  1.4638551931
#> [395,]  0.2089413290  1.557663607  1.1249836614
#> [396,] -1.8027424384 -4.111138339 -4.5294927051
#> [397,] -0.1410051435  0.544338022  0.1262542737

```

```

#> [398,] 1.0497628346 2.102530616 2.4758493068
#> [399,] 0.5974234566 1.053931918 1.3298629536
#> [400,] -0.6698453011 -1.043668698 -1.4144758595
#> [401,] 0.7264584223 1.673725532 1.8347264303
#> [402,] 0.0297772982 0.965030386 0.5726831441
#> [403,] 0.8128639068 2.474585929 2.3869162971
#> [404,] 0.2768994677 -0.723928091 -0.0564617927
#> [405,] -0.3262459352 -1.618681738 -1.3051226208
#> [406,] -1.0414957096 -0.870129303 -1.7816092399
#> [407,] 1.8506110316 3.904409223 4.4744578602
#> [408,] -2.2617540787 -3.695583956 -4.8712555741
#> [409,] -1.1978101358 -0.867827251 -1.9752525989
#> [410,] -0.6443951869 -0.907384231 -1.3071079125
#> [411,] -1.0191500850 -2.169283678 -2.4747209872
#> [412,] 0.6781741657 1.063379637 1.4358005297
#> [413,] 1.4647531989 3.341025893 3.6806468523
#> [414,] -0.6987680121 -0.022908572 -0.8840627573
#> [415,] -0.1735914180 -0.940245601 -0.7382618999
#> [416,] -0.1881080135 -0.946793752 -0.7599977482
#> [417,] -0.6605042458 -0.370074566 -1.0290112122
#> [418,] 1.0032174625 2.347540054 2.5537781574
#> [419,] -1.6818078927 -3.531442762 -4.0569830183
#> [420,] 0.2295200695 0.352517386 0.4818392352
#> [421,] 0.4972520753 0.103275722 0.6773768978
#> [422,] -1.9546473633 -3.504888881 -4.3824719808
#> [423,] -0.3989167780 -0.824065615 -0.9547630000
#> [424,] 1.7170410676 1.965943598 3.2321315772
#> [425,] 0.9302656863 0.178670903 1.2591772075
#> [426,] 0.4536739907 0.993118618 1.1168614665
#> [427,] 0.2307616628 0.866752101 0.7687662138
#> [428,] 1.6930340215 2.624653379 3.5677516297
#> [429,] 0.0042224413 -0.193987255 -0.1023895066
#> [430,] -1.6888143921 -3.719554163 -4.1701139321
#> [431,] -0.1914772616 -0.241602434 -0.3728474753
#> [432,] -0.1714790064 0.633777653 0.1378892391
#> [433,] -0.7656830906 -0.683357833 -1.3340261835
#> [434,] 0.7564817313 -0.351878939 0.7480392108
#> [435,] 1.9291323598 3.746571106 4.4847788084
#> [436,] 0.0368288862 0.459937577 0.3011709684
#> [437,] -0.1017633820 -1.427727989 -0.9192261197
#> [438,] 0.5832918175 0.890626116 1.2216132048
#> [439,] -0.6022712618 -1.664828986 -1.6749303636
#> [440,] -1.7444686094 -3.097369347 -3.8942270823
#> [441,] 0.8494827532 0.692760194 1.4437405704
#> [442,] 0.4144324254 -0.138472759 0.4399421980

```

```

#> [443,] 0.7247814598 1.615166695 1.8001375897
#> [444,] -1.0613950264 -2.399559447 -2.6551929782
#> [445,] 0.0157004806 -1.361448133 -0.7359685337
#> [446,] -0.0351054040 -0.021076696 -0.0554724065
#> [447,] 2.5982229253 5.147562173 6.0966124820
#> [448,] -0.7410012033 0.383600947 -0.7111309218
#> [449,] 3.9933706538 7.466281930 9.1231256290
#> [450,] 0.7559344743 0.062986206 0.9775895786
#> [451,] 2.2153509602 3.685829236 4.8079783707
#> [452,] -0.4777800104 -1.962806494 -1.6850573535
#> [453,] -1.3043433481 -2.446052891 -2.9839464944
#> [454,] 0.7487207650 1.428881366 1.7266088569
#> [455,] -1.1872741974 -2.337622457 -2.7777893005
#> [456,] -0.2174506193 -1.853163046 -1.2995843894
#> [457,] 0.0313000488 -0.503159410 -0.2402018837
#> [458,] 0.1412177952 -0.214954875 0.0568047546
#> [459,] 0.9416695120 1.597818736 2.0609651762
#> [460,] 1.4788407952 0.157132598 1.9312863219
#> [461,] -0.6928886970 -0.733324981 -1.2709827343
#> [462,] -1.1028019791 -1.528666935 -2.2235177219
#> [463,] 1.2294295742 1.070526646 2.1271710709
#> [464,] -1.0184179738 -2.318408527 -2.5565661070
#> [465,] 0.9873567914 0.637842867 1.5851898664
#> [466,] -1.6869741395 -1.755135688 -3.0776491672
#> [467,] 0.7193230477 1.912364321 1.9582633006
#> [468,] -0.8934342087 -1.426414248 -1.9056944220
#> [469,] 0.1006645864 1.116936258 0.7453795452
#> [470,] -0.4972721793 -0.380860196 -0.8314497281
#> [471,] -1.0908844230 -2.587455894 -2.7962403155
#> [472,] 0.9358553046 0.960751474 1.7001693203
#> [473,] 1.1000391124 1.148038434 2.0088396017
#> [474,] 1.2903374795 3.205734975 3.3880732127
#> [475,] 0.4428293680 -0.072821826 0.5117861251
#> [476,] -0.1262743947 -0.694472129 -0.5428645501
#> [477,] 0.6692928098 0.888288510 1.3275574148
#> [478,] -0.5779208403 -1.384300542 -1.4888843434
#> [479,] 1.0691675517 3.382285133 3.2102567697
#> [480,] -1.6153631020 -2.579336296 -3.4457484938
#> [481,] -0.0100453478 -0.196538878 -0.1215971922
#> [482,] 0.6159575635 1.498662080 1.5997812270
#> [483,] 0.2269138738 -0.240253310 0.1496264445
#> [484,] 1.1866653488 1.956739196 2.5656558155
#> [485,] 0.9007087511 0.718391002 1.5218423699
#> [486,] -0.8667042278 -1.777687119 -2.0673044173
#> [487,] 2.1128108430 3.450805503 4.5496846041

```

```

#> [488,] 0.4767581708 2.079955665 1.7487960256
#> [489,] 0.2525839645 -0.105095917 0.2566432181
#> [490,] 1.3744844422 2.103113994 2.8810942786
#> [491,] 0.0869142113 -0.063376807 0.0732087743
#> [492,] 0.7961266258 1.049854528 1.5753789721
#> [493,] -0.7755213837 -0.848563294 -1.4379764485
#> [494,] 0.9851764995 0.754330145 1.6471166490
#> [495,] -1.9483499145 -3.232884642 -4.2236682264
#> [496,] 1.4292627777 2.672867430 3.2655910485
#> [497,] -2.2361122274 -3.015797943 -4.4620279323
#> [498,] -0.9696857516 -1.353971866 -1.9605760521
#> [499,] -1.0123177162 -2.142372431 -2.4512665473
#> [500,] -1.0478969338 -1.200839110 -1.9731215326
#> [501,] 0.2973006565 0.497863556 0.6470212839
#> [502,] -2.2764329032 -4.742340449 -5.4704657968
#> [503,] -0.9984893142 -1.362466188 -2.0012075002
#> [504,] 1.3802644976 3.118012352 3.4515279869
#> [505,] 0.7161612261 1.500162893 1.7255660386
#> [506,] -0.6889666708 -2.117879822 -2.0344620161
#> [507,] -0.6798076371 -1.746226598 -1.8167889089
#> [508,] -0.3175987982 0.112958134 -0.3333521886
#> [509,] 0.8927725232 -0.176748034 1.0151813683
#> [510,] 0.9109347954 0.666062265 1.5055537805
#> [511,] -0.2646440827 -0.392232196 -0.5476782202
#> [512,] -2.0175561218 -3.057657138 -4.2127230272
#> [513,] -2.9582060343 -5.070566738 -6.5027748339
#> [514,] 1.9940376244 3.701099482 4.5404795018
#> [515,] 0.0927839280 0.874503167 0.6010123099
#> [516,] 1.1943232074 1.196555054 2.1533346378
#> [517,] -0.6985223747 -1.054376995 -1.4561782419
#> [518,] -0.5502399679 -1.026035105 -1.2555445425
#> [519,] -0.9908477052 -1.695994016 -2.1767725500
#> [520,] 2.1819424705 3.449734645 4.6352960519
#> [521,] -0.2903710075 0.426843453 -0.1252064784
#> [522,] 0.8009360043 0.593903215 1.3283422803
#> [523,] -0.1266312848 0.194304513 -0.0500757599
#> [524,] -1.6487464369 -1.810774764 -3.0608573593
#> [525,] 1.0108249455 0.686272854 1.6413307909
#> [526,] 0.9093339265 1.975916699 2.2304718998
#> [527,] -1.2303928650 -2.074709659 -2.6856518041
#> [528,] -2.0584776625 -4.710934645 -5.1812511508
#> [529,] -1.0164103308 -1.557885931 -2.1320044178
#> [530,] 1.1505815655 1.824452407 2.4472464445
#> [531,] 0.8220151957 1.755222904 1.9991114073
#> [532,] 1.5431150424 1.754452060 2.8978804220

```

```

#> [533,] -0.7002107013 -1.352618191 -1.6237949273
#> [534,] -0.1426502538  0.062099614 -0.1434192711
#> [535,] -0.8755956777 -1.672781130 -2.0201734424
#> [536,] -1.8381371110 -2.747551866 -3.8168957378
#> [537,]  1.2140456710  3.177083048  3.2770382637
#> [538,] -1.8147977415 -3.230286724 -4.0556896548
#> [539,] -0.9225603939 -1.075430680 -1.7472329958
#> [540,] -0.2955832655 -1.682852854 -1.3024991797
#> [541,]  0.6830848910  0.452322388  1.1028129141
#> [542,]  2.6142254174  4.570053975  5.7960743925
#> [543,] -0.5903181459 -0.913947177 -1.2433171058
#> [544,] -0.9412397173 -1.771101225 -2.1565937571
#> [545,] -0.5396533590  0.111380646 -0.6111251366
#> [546,]  0.4011743803  1.243699235  1.1904572740
#> [547,]  0.2864125192  1.158437699  1.0000349911
#> [548,] -1.1988089944 -1.518404865 -2.3375414923
#> [549,]  0.1552119524 -0.039153115  0.1718177991
#> [550,] -1.7257114389 -3.074371177 -3.8580742518
#> [551,] -0.9647385329 -3.281316416 -3.0240025023
#> [552,] -1.6991754597 -3.815698054 -4.2363898058
#> [553,] -0.7487822074  0.233151761 -0.8043266745
#> [554,]  1.0634684430  1.759862641  2.3027735419
#> [555,]  1.1389412332  2.433037879  2.7704706441
#> [556,]  0.0161801938  0.564474264  0.3334359546
#> [557,]  0.2189758552  0.133604568  0.3472033668
#> [558,]  0.4361753654  0.645769808  0.9022769905
#> [559,] -1.7121708684 -3.088037338 -3.8487735838
#> [560,] -0.0230866294 -1.067313290 -0.6211027459
#> [561,]  0.4734122367  1.594449965  1.4751883774
#> [562,]  1.7314160001  4.533570969  4.6749825143
#> [563,] -0.5702943574 -2.432882665 -2.0612934511
#> [564,] -0.5498624823 -0.739645096 -1.0961393609
#> [565,] -0.9377218458 -2.786128713 -2.7155048021
#> [566,] -0.1897759810 -0.201800130 -0.3486374009
#> [567,]  1.9860792089  2.051951642  3.6153475152
#> [568,] -1.7218077225 -3.093948896 -3.8640712114
#> [569,]  0.4620039188  2.057831486  1.7181197810
#> [570,]  2.3831192756  3.391513906  4.8538493522
#> [571,]  0.9286647086  0.718729000  1.5568904534
#> [572,]  1.0980036909  3.439202319  3.2778015022
#> [573,]  0.5999019172  0.758313903  1.1688979221
#> [574,] -0.2679238114 -0.198688914 -0.4443595568
#> [575,]  2.6148728724  4.294553176  5.6439903468
#> [576,] -0.7621624277 -1.203893615 -1.6185115538
#> [577,]  0.8388789790  1.779618353  2.0336786538

```



```

#> [578,] -1.4838224237 -3.512595582 -3.7996397807
#> [579,] -0.1983704128 -1.039474904 -0.8242289100
#> [580,] -0.3422535257 -2.045094293 -1.5617248746
#> [581,] 0.7128023427 1.094124446 1.4960432418
#> [582,] -0.2886681907 -0.090177188 -0.4100079101
#> [583,] 0.2397221713 0.087172493 0.3473057419
#> [584,] 1.2118772945 1.392947006 2.2842135369
#> [585,] 0.1125948453 -0.196031908 0.0316139739
#> [586,] -2.0714289878 -3.264183197 -4.3945147082
#> [587,] -0.5123469041 -0.910039303 -1.1439198511
#> [588,] 1.0052095268 2.532809967 2.6590792658
#> [589,] 0.9653349565 1.353949104 1.9551380675
#> [590,] -0.5489936944 -1.106301877 -1.2985351626
#> [591,] 0.4631914878 2.068194130 1.7253514892
#> [592,] 0.3590587724 1.220019385 1.1247986448
#> [593,] 1.6609099550 3.230079438 3.8636796892
#> [594,] 0.7626083804 2.779585935 2.4935109143
#> [595,] 0.0616281366 -1.327751070 -0.6599972246
#> [596,] 1.9954895143 2.917949802 4.1076746952
#> [597,] -0.8232129567 -2.170688215 -2.2311708440
#> [598,] 0.3542157395 -0.376414639 0.2328054378
#> [599,] -0.1048764405 -0.693791128 -0.5158038105
#> [600,] 0.2829761868 -1.014209746 -0.2099784130
#> [601,] -0.0772527088 0.193482064 0.0110418924
#> [602,] 1.4015419780 3.381500071 3.6242852235
#> [603,] 0.7312473745 2.549926005 2.3269527342
#> [604,] -1.7691258480 -2.237018392 -3.4475153974
#> [605,] 2.0359947194 3.808789363 4.6525625189
#> [606,] 1.1401074583 2.100356234 2.5873005189
#> [607,] -0.5382488359 -1.281631842 -1.3824373332
#> [608,] -2.1051136954 -4.215939690 -4.9647038570
#> [609,] -1.1416210342 -1.834395733 -2.4415909745
#> [610,] 2.0717659423 3.780824037 4.6816489192
#> [611,] 0.3562885853 1.013337789 1.0066446451
#> [612,] -0.6405930041 -2.277271994 -2.0625970226
#> [613,] 1.6391444270 4.094447058 4.3162263593
#> [614,] -0.0552290901 0.972193711 0.4706572569
#> [615,] -1.8860750228 -2.393893901 -3.6804079722
#> [616,] -1.1799698801 -2.315437580 -2.7563692877
#> [617,] 1.3547186801 2.844162983 3.2676979392
#> [618,] -1.0812168194 -1.806542562 -2.3508108067
#> [619,] 1.1901756131 2.589666340 2.9212811093
#> [620,] 2.0191123167 2.382405999 3.8399274596
#> [621,] 2.2215557646 2.492948620 4.1537168366
#> [622,] -0.7951185380 -1.451600712 -1.7970742192

```

```

#> [623,] 1.0136919246 1.349411460 2.0129200178
#> [624,] -0.5688237200 -0.154807889 -0.7952234737
#> [625,] 1.2430898403 2.100655833 2.7158837137
#> [626,] 0.3827243288 0.229657213 0.6046995699
#> [627,] -1.7234477104 -3.865974775 -4.2945582828
#> [628,] 2.1870977439 4.850665918 5.4191827754
#> [629,] -0.8686635985 -2.090786810 -2.2435049325
#> [630,] 1.7684706806 2.364920903 3.5176789554
#> [631,] -0.3714948431 -0.573940027 -0.7817591775
#> [632,] 0.2935863513 1.347553965 1.1139322234
#> [633,] -1.1706458484 -2.504256380 -2.8495289389
#> [634,] -0.8915782329 -2.168406182 -2.3151545157
#> [635,] 0.6933753296 1.751932959 1.8368743364
#> [636,] -1.2595320772 -2.451561792 -2.9311249634
#> [637,] -0.0860790218 0.887797323 0.3853515594
#> [638,] 1.0728867553 1.753239538 2.3108424398
#> [639,] 1.0092772679 1.732168873 2.2198293696
#> [640,] 0.5924436366 0.781172667 1.1722832555
#> [641,] 0.5605296842 1.555759521 1.5623504814
#> [642,] 0.5703594970 -0.090537843 0.6609819474
#> [643,] 1.5543940204 2.164709799 3.1396209462
#> [644,] 1.0180617411 1.247698346 1.9619225698
#> [645,] 0.8802014328 2.548934312 2.5121450584
#> [646,] 0.6662697905 1.600605004 1.7190936028
#> [647,] -0.8662124679 -1.294230657 -1.7983931077
#> [648,] -0.0781543412 0.438811241 0.1460649973
#> [649,] -0.8416835827 -0.632995908 -1.4008484869
#> [650,] 2.5360828950 4.841782016 5.8494299470
#> [651,] 1.0763047999 2.167028145 2.5447400243
#> [652,] -1.3468889392 -1.755501662 -2.6537729589
#> [653,] 0.1300032665 -0.638833060 -0.1924141797
#> [654,] 1.1426945929 2.549707026 2.8398974991
#> [655,] -0.5543057781 -1.155821274 -1.3326404150
#> [656,] 0.8299599596 1.794046979 2.0305641018
#> [657,] -1.8549897201 -2.684111910 -3.8027040782
#> [658,] -0.6611309861 -1.452051820 -1.6302448208
#> [659,] 0.2310652432 0.104823317 0.3463061978
#> [660,] -1.2025394671 -1.767044333 -2.4801778103
#> [661,] -0.6923256307 -1.830887108 -1.8793816301
#> [662,] -1.3890496597 -2.603605535 -3.1770086585
#> [663,] -2.0661882315 -3.577408054 -4.5618062734
#> [664,] 0.2937992584 1.294117557 1.0845427451
#> [665,] -0.6181599138 -0.959172742 -1.3031335174
#> [666,] -1.1078879764 -1.342590232 -2.1265950772
#> [667,] -1.5034474317 -3.244866638 -3.6755334109

```

```

#> [668,] 0.9637283719 2.684270611 2.6914074273
#> [669,] 1.2612548051 3.200594148 3.3489547671
#> [670,] -2.4766699363 -4.345460041 -5.4999052830
#> [671,] -0.4993325581 -1.062107832 -1.2120828939
#> [672,] 1.1285889133 2.427186185 2.7543140674
#> [673,] 0.4307090624 0.549693903 0.8421425173
#> [674,] 3.5080987439 7.305016589 8.4285059425
#> [675,] 0.3802538183 1.258400624 1.1725284154
#> [676,] 1.2330812603 2.804615560 3.0940713935
#> [677,] -0.4027496337 -0.784899784 -0.9378070969
#> [678,] 0.0399605290 -0.976758365 -0.4922300332
#> [679,] 2.2519582342 3.450187166 4.7228554115
#> [680,] 0.7857968522 0.421460211 1.2137654187
#> [681,] 0.9352314497 1.403883032 1.9453108479
#> [682,] -0.1823807950 -0.184871430 -0.3300210350
#> [683,] 0.7621280941 2.508826756 2.3426519991
#> [684,] 0.1042666383 1.543598963 0.9866511686
#> [685,] -0.6853076011 -0.816035670 -1.3074302319
#> [686,] 1.2938768604 1.455595926 2.4212328510
#> [687,] 0.2787836151 1.662913918 1.2704850839
#> [688,] 0.8819831383 1.443446202 1.9008671921
#> [689,] -1.8322432968 -3.710151488 -4.3437487595
#> [690,] 0.0496293062 1.046401195 0.6425955854
#> [691,] -0.2281672261 1.128426787 0.3417097447
#> [692,] -1.0501655026 -2.694250247 -2.8047310470
#> [693,] 0.9122414889 2.136561939 2.3232489531
#> [694,] -0.8676958688 -1.160659379 -1.7261164115
#> [695,] -0.0516558995 0.285638871 0.0941037613
#> [696,] 0.2062138378 0.223816980 0.3813535027
#> [697,] -0.6829559756 -1.281246216 -1.5626701787
#> [698,] -0.5879015974 -0.393870792 -0.9516830998
#> [699,] -0.7439075545 -1.072749045 -1.5229683536
#> [700,] 0.6196683111 1.281155865 1.4837016110
#> [701,] 0.5630620157 0.858330411 1.1784642908
#> [702,] 1.2380719418 1.013392075 2.1062406321
#> [703,] -0.0127250129 0.170837191 0.0789396569
#> [704,] -1.3366699560 -1.542208329 -2.5226612256
#> [705,] -0.4354336791 0.421023921 -0.3093262675
#> [706,] -0.9375558662 -1.694926126 -2.1097260795
#> [707,] -0.6033471185 -0.850701015 -1.2244649971
#> [708,] 0.5776069208 0.559812660 1.0309366375
#> [709,] -0.3226301159 -1.301799740 -1.1247575263
#> [710,] 1.0689887419 1.467409443 2.1473579612
#> [711,] -1.1791162955 -0.894102927 -1.9665236611
#> [712,] -0.0464392865 -0.238997731 -0.1905425777

```

```

#> [713,] -0.4726204668 -0.853718839 -1.0631262945
#> [714,] -0.4596792915  0.373028877 -0.3661952922
#> [715,] -1.2412932309 -2.089038247 -2.7071961046
#> [716,] -0.3379835041 -0.704042098 -0.8121724235
#> [717,] -0.0820507120  0.499772739  0.1750373816
#> [718,] -3.1549939557 -5.581095045 -7.0314871939
#> [719,]  1.3750646647  2.870279061  3.3075622970
#> [720,] -1.0543624680 -1.480978343 -2.1366494676
#> [721,] -0.5648083751 -1.822125438 -1.7155078530
#> [722,]  0.4723601449 -0.605242111  0.2531394347
#> [723,] -0.2439982943  0.270160072 -0.1543333671
#> [724,] -1.0611859980  0.116521753 -1.2586126007
#> [725,] -0.0101165097 -0.177212144 -0.1109604016
#> [726,]  0.1842927486  0.422278315  0.4641560833
#> [727,] -0.3449168547 -0.575897076 -0.7497030482
#> [728,]  0.6398983035  1.014288472  1.3608277686
#> [729,]  0.4590361322  1.429826442  1.3659025055
#> [730,]  0.0401144514 -0.478701885 -0.2156376011
#> [731,]  0.3285485321  0.094138709  0.4619363605
#> [732,]  0.0570912791 -0.528195407 -0.2219346758
#> [733,] -0.8246475778 -1.476879790 -1.8479251595
#> [734,]  0.9200648884  0.782513116  1.5815641673
#> [735,] -1.8978371657 -3.918685458 -4.5412705986
#> [736,] -0.4212099066 -0.785355272 -0.9610794570
#> [737,] -0.2195324819 -1.421781071 -1.0627814948
#> [738,] -1.6665758125 -2.030811211 -3.2052012428
#> [739,] -0.6585830274 -1.501906211 -1.6547346677
#> [740,] -0.4299428027 -0.425400504 -0.7722093750
#> [741,]  0.0271009005  0.351295607  0.2287486239
#> [742,]  1.7591218185  2.217393592  3.4241496340
#> [743,] -0.8722465487 -1.635281351 -1.9951863394
#> [744,]  0.6466967073  0.637639350  1.1602807463
#> [745,] -0.7543716436 -1.200282683 -1.6067926887
#> [746,] -0.0230942575  0.271124741  0.1216648116
#> [747,]  0.4874342199  1.252424124  1.3028634827
#> [748,] -1.6080437019 -3.633203071 -4.0214732883
#> [749,]  0.0203519688 -0.007973087  0.0209537608
#> [750,]  0.8220741317  1.841422842  2.0470222560
#> [751,]  0.6604816748  2.183456626  2.0353341880
#> [752,]  2.3376936312  2.902785373  4.5259806264
#> [753,] -0.0673245873 -0.300333332 -0.2506248123
#> [754,] -1.3979456991 -1.648983119 -2.6583263654
#> [755,]  0.4949127226  1.224914481  1.2969223229
#> [756,] -0.9659798613 -1.255215702 -1.9011493462
#> [757,] -1.2901563901 -2.307660902 -2.8894538879

```

```

#> [758,] -2.8695071079 -5.082833805 -6.3989767905
#> [759,] -0.2203328991 0.232962466 -0.1454662163
#> [760,] 1.7986239468 2.716111890 3.7501757575
#> [761,] -0.2177045324 0.203893951 -0.1583205055
#> [762,] -0.0553513595 0.201707601 0.0429172573
#> [763,] -0.0976904850 -0.952093513 -0.6501900798
#> [764,] -0.6606604548 -1.926792463 -1.8931192584
#> [765,] -0.4227184254 -0.719668713 -0.9265072595
#> [766,] -0.1655998508 -1.074009883 -0.8025301548
#> [767,] -0.1534483051 0.145340157 -0.1106892046
#> [768,] -0.9344865784 -2.677901842 -2.6514091074
#> [769,] 2.0161133596 3.185020099 4.2816050428
#> [770,] 1.8714795635 2.374745125 3.6515809635
#> [771,] 3.1302230964 5.136225349 6.7537143821
#> [772,] 0.2980523383 1.309549716 1.0984104510
#> [773,] -0.3153526551 -0.952203722 -0.9216715279
#> [774,] -0.0594634875 -0.973380450 -0.6143351523
#> [775,] -1.9462844195 -3.257788527 -4.2349132098
#> [776,] 1.4075874508 1.247405163 2.4474904811
#> [777,] 0.5682736904 -0.812396663 0.2577795666
#> [778,] -0.0977983162 -1.175038659 -0.7740497649
#> [779,] 0.4971018079 1.365244335 1.3775292613
#> [780,] -0.7648160379 -0.942091349 -1.4765312551
#> [781,] -2.1671919980 -2.979725328 -4.3560670213
#> [782,] -0.7350642321 0.101627622 -0.8602110293
#> [783,] 1.2510302369 2.606026620 3.0062448544
#> [784,] 0.0154336671 -0.700300563 -0.3693920244
#> [785,] 0.1926645791 0.364915783 0.4427617820
#> [786,] -0.1426258891 -2.225641361 -1.4129893468
#> [787,] -0.8925572224 -1.389116351 -1.8839020671
#> [788,] 0.8184608400 1.561876180 1.8873798616
#> [789,] 2.3015591881 3.663019297 4.9028197110
#> [790,] -0.5589119534 -1.947614658 -1.7777963987
#> [791,] -0.3271594108 -0.433850843 -0.6487301657
#> [792,] -0.4866194872 -0.129079091 -0.6784380666
#> [793,] -0.2428073604 -1.451456394 -1.1082733553
#> [794,] 0.9213289975 1.315715745 1.8790456207
#> [795,] -0.2409534572 -1.139178513 -0.9326604262
#> [796,] 1.0876698276 1.406331173 2.1367570113
#> [797,] -0.9684462963 -0.976941249 -1.7497942696
#> [798,] -2.6105414769 -3.561591547 -5.2318261688
#> [799,] -2.0531667437 -3.054790067 -4.2555376418
#> [800,] -1.0225137178 -1.004986726 -1.8327793066
#> [801,] 0.5438589282 -0.867724786 0.1966300646
#> [802,] -0.1066607204 0.168744072 -0.0393578477

```

```

#> [803,] 0.1220548995 0.557253340 0.4614522427
#> [804,] 0.3207489540 -0.419691214 0.1670563513
#> [805,] 0.8496738790 1.808290008 2.0630512418
#> [806,] 0.7942026512 0.685632652 1.3708519229
#> [807,] -0.9421329951 -2.294003529 -2.4478965423
#> [808,] -2.1006521194 -5.088796844 -5.4435395384
#> [809,] -1.1768907627 -1.595438833 -2.3529605317
#> [810,] -2.8508418479 -4.128321614 -5.8459872894
#> [811,] 1.4514408018 0.873675972 2.2947706611
#> [812,] -1.1899683705 -1.518877133 -2.3267795039
#> [813,] 1.2937017046 3.097279236 3.3320799382
#> [814,] 0.2746712018 0.964639950 0.8778441712
#> [815,] -0.2799844530 -0.843808309 -0.8174131854
#> [816,] -0.3066571233 -1.359619255 -1.1369269404
#> [817,] 1.8612214723 2.292027291 3.5928843981
#> [818,] -0.1832382171 0.213311053 -0.1101156157
#> [819,] -0.1887590899 -1.022643886 -0.8029032756
#> [820,] 0.1553917308 0.848598900 0.6647071792
#> [821,] -0.7950475371 -0.552345889 -1.2979369056
#> [822,] 2.4797903510 3.679269011 5.1340882472
#> [823,] -2.3473717695 -3.437533386 -4.8348118257
#> [824,] 1.5101572854 4.316194359 4.2784424925
#> [825,] -1.3977759455 -1.446706247 -2.5458594912
#> [826,] -1.0109026978 -0.480743244 -1.5273674184
#> [827,] -0.1419353095 0.005631107 -0.1738654073
#> [828,] -1.2484495771 -2.595054063 -2.9969375145
#> [829,] 0.5371926331 0.245619163 0.8061766085
#> [830,] -1.8261351904 -3.274390749 -4.0943031097
#> [831,] -0.6071668755 -0.356354184 -0.9548863623
#> [832,] -1.3508577443 -3.294228987 -3.5126512201
#> [833,] -0.2768302967 0.655957916 0.0188274464
#> [834,] -0.9784315750 -2.180525560 -2.4301846092
#> [835,] 1.4413810781 1.877469735 2.8392899027
#> [836,] -0.5711334462 -1.523389593 -1.5576092016
#> [837,] -0.0214153179 0.808741667 0.4221133001
#> [838,] -0.2499415404 -1.220851501 -0.9891934713
#> [839,] 1.7017181804 3.023124073 3.7997151508
#> [840,] 0.1997262053 0.686074441 0.6297970947
#> [841,] 0.1488298221 -0.087722129 0.1369056437
#> [842,] 0.6112165526 1.043413513 1.3412253889
#> [843,] 1.9622698298 2.560998834 3.8681575842
#> [844,] -0.8326761656 -1.475395067 -1.8571126855
#> [845,] 0.4214814683 0.507553561 0.8072497705
#> [846,] -0.4542053830 -1.716248032 -1.5188306502
#> [847,] 0.1347252299 0.803856027 0.6141060527

```

```

#> [848,] -2.0046950103 -3.606117588 -4.5010580704
#> [849,]  1.0858130153  0.736300106  1.7626024153
#> [850,] -0.2119060385  0.028852435 -0.2482306146
#> [851,]  1.1049986094  2.314262352  2.6622294399
#> [852,] -0.5827917571 -1.473863309 -1.5446618635
#> [853,] -1.6004161009 -3.350283749 -3.8549534465
#> [854,] -0.8576888855 -2.138549637 -2.2563260584
#> [855,]  0.3081767875  1.007993931  0.9436845976
#> [856,]  0.1457828334  0.175786053  0.2793421194
#> [857,]  0.7624912059  1.563568900  1.8185262581
#> [858,] -0.2488537474  0.094099447 -0.2580942938
#> [859,] -0.6436695658 -0.898790795 -1.3014340806
#> [860,]  0.9565025287  1.592541318  2.0765328994
#> [861,] -0.9664453768 -1.741001454 -2.1713205879
#> [862,]  2.2112789252  4.447022752  5.2253311576
#> [863,]  0.0754093243 -0.597386761 -0.2374907518
#> [864,] -1.1933714853 -2.154639735 -2.6838447447
#> [865,]  0.1707732772  0.293551993  0.3758598594
#> [866,] -1.0308240299 -2.323244310 -2.5747198629
#> [867,] -2.3951574251 -3.956560930 -5.1824381200
#> [868,] -1.1828877091 -1.242568226 -2.1646101886
#> [869,]  0.0276890929  0.038219258  0.0557378224
#> [870,] -1.1689020010 -1.686401572 -2.3934792202
#> [871,] -0.0067677186 -0.617068085 -0.3508861587
#> [872,]  1.0106712886  1.016456615  1.8243773476
#> [873,]  0.7230531528  1.115514222  1.5206962226
#> [874,] -0.9297743257 -2.750082031 -2.6855900070
#> [875,]  2.0460393348  1.962282351  3.6403538671
#> [876,] -1.0733438954 -2.191270862 -2.5545015296
#> [877,] -0.4630654098 -0.476894530 -0.8420896190
#> [878,]  1.6102081440  3.248040498  3.8104232012
#> [879,] -1.3534011106  0.442795413 -1.4419306650
#> [880,] -0.7635578365 -1.432306475 -1.7470111744
#> [881,] -0.2254071473 -0.364246559 -0.4832197051
#> [882,] -0.5438400933 -1.256178556 -1.3752840091
#> [883,]  0.8971987751  1.890207852  2.1677747916
#> [884,]  0.5130103601 -0.001447622  0.6389100861
#> [885,]  0.1526263326 -0.843088585 -0.2775569427
#> [886,] -0.4536500228 -1.631072129 -1.4708690677
#> [887,]  0.3563358586  0.824671591  0.9020017536
#> [888,] -0.8827449956 -0.808419971 -1.5494042418
#> [889,] -0.8404231927 -1.616998091 -1.9453568201
#> [890,]  0.7662048597  0.686507231  1.3364246028
#> [891,]  1.2705859437  2.379192667  2.9047470748
#> [892,] -0.3789474876 -0.524464275 -0.7635955022

```

```

#> [893,] 0.4784253474 -0.049415072 0.5691633539
#> [894,] 0.1398033183 1.170032284 0.8236508170
#> [895,] -1.4940032513 -2.671378279 -3.3454946820
#> [896,] 0.6414178482 0.856531354 1.2751740143
#> [897,] 0.2465347811 -0.544185075 0.0054239107
#> [898,] 0.2025552768 1.105246590 0.8659478818
#> [899,] -0.2786271018 0.237632399 -0.2155662805
#> [900,] -0.8721433060 -1.568826328 -1.9581778426
#> [901,] -1.2256887599 -2.767741188 -3.0643893641
#> [902,] 0.5857486580 1.469681415 1.5460282821
#> [903,] -1.5903578180 -1.458145327 -2.7923533688
#> [904,] -0.4723683514 -0.481804114 -0.8564148109
#> [905,] 0.3680510656 0.270378741 0.6090010527
#> [906,] 0.4571650590 0.971580057 1.1092617579
#> [907,] -0.7663358476 -2.174546693 -2.1623875426
#> [908,] -0.7367557759 -1.213574732 -1.5922025921
#> [909,] -1.7400738536 -3.468835707 -4.0948951886
#> [910,] 2.5276672696 3.957161435 5.3480084482
#> [911,] -0.0468085081 0.395296149 0.1610035576
#> [912,] -0.5077489699 -0.242504232 -0.7677323046
#> [913,] -1.6676279268 -3.852535191 -4.2174937445
#> [914,] -0.9451516280 -1.218237499 -1.8546556095
#> [915,] 1.5455937814 3.051644379 3.6208587855
#> [916,] 2.8341542765 4.911721292 6.2599322501
#> [917,] 0.0629013454 -0.040051131 0.0562099939
#> [918,] -0.6777370038 -0.892256216 -1.3402890634
#> [919,] 0.8524635767 0.560503178 1.3740604895
#> [920,] -0.3207098801 -0.790455897 -0.8385886073
#> [921,] 1.1593843998 1.812465873 2.4515713747
#> [922,] 1.5396641424 3.141267436 3.6632016907
#> [923,] 0.1716732915 -0.340345965 0.0251953319
#> [924,] -0.6010496364 -1.386675139 -1.5190432823
#> [925,] -0.8489888838 -1.655339220 -1.9773157833
#> [926,] -0.5480999973 -0.705837350 -1.0751796949
#> [927,] 0.2268040458 0.368403955 0.4872687900
#> [928,] -0.2940153753 -1.126692639 -0.9918984184
#> [929,] 0.5954284367 2.001523003 1.8532485832
#> [930,] 0.0287342361 0.659704855 0.4019395803
#> [931,] 0.4270663525 0.835290025 0.9960940229
#> [932,] 1.5826011953 2.312618444 3.2568778231
#> [933,] -2.2149377626 -3.458142495 -4.6811065129
#> [934,] -0.6015098220 -0.690103528 -1.1330490441
#> [935,] -0.3911179988 -0.522040701 -0.7774268996
#> [936,] -0.3721496309 -0.759708018 -0.8856691416
#> [937,] 0.3672017382 0.801897695 0.9029127248

```



```

#> [938,] 0.2725857909 0.817790617 0.7937484749
#> [939,] 0.5288500814 0.947257316 1.1851534157
#> [940,] 0.8014866036 0.385162025 1.2131862455
#> [941,] -0.8466130540 -1.250097487 -1.7494609771
#> [942,] 0.0836720173 0.315021716 0.2791611622
#> [943,] 0.6345370496 0.219507521 0.9130722426
#> [944,] 0.1234830231 -0.556309998 -0.1547479459
#> [945,] -0.6976407806 -0.264477107 -1.0167175452
#> [946,] 0.0673663135 -0.104193552 0.0261813598
#> [947,] -1.4629007960 -3.265398214 -3.6363667481
#> [948,] -1.6847436524 -3.413259327 -3.9950569926
#> [949,] 1.1581845959 1.548358497 2.3035067079
#> [950,] -0.9289108169 -0.919441155 -1.6685841883
#> [951,] -0.7784330283 -1.650528254 -1.8866641861
#> [952,] 1.5551727460 2.908865158 3.5535670690
#> [953,] 0.5014955574 0.211411181 0.7426790857
#> [954,] -1.4878481124 -1.934788959 -2.9290431163
#> [955,] -0.7920157237 -1.681287352 -1.9206715414
#> [956,] 1.0497356526 2.204094644 2.5321791944
#> [957,] 0.1958069606 1.380956116 1.0105401126
#> [958,] -0.4224903221 0.876210360 -0.0405767500
#> [959,] 0.1081029419 1.561087023 1.0011401020
#> [960,] 0.7586798233 1.545291511 1.8036303557
#> [961,] -0.6335230206 -1.677096667 -1.7207087187
#> [962,] 1.8222229411 3.239353542 4.0699804316
#> [963,] -1.9750186466 -2.791230006 -4.0118237598
#> [964,] -0.6521894159 -3.069692253 -2.5168175784
#> [965,] 1.2091444222 3.233002606 3.3019595196
#> [966,] -0.2160255138 -0.382892356 -0.4818686362
#> [967,] -0.7726246004 -2.115755984 -2.1376031068
#> [968,] -0.8267415723 -2.707308177 -2.5333725669
#> [969,] -2.6061215411 -3.939735071 -5.4361684221
#> [970,] -0.0926100437 0.201619023 -0.0035927194
#> [971,] 2.0880061626 3.210274637 4.3852691132
#> [972,] 1.0296766023 0.849858811 1.7556217797
#> [973,] -1.9822906205 -3.620613346 -4.4811647920
#> [974,] 0.3645480721 0.500785065 0.7324987550
#> [975,] 2.1840783728 3.841074226 4.8551365613
#> [976,] -0.7188638191 -2.134640438 -2.0810445903
#> [977,] 0.6237074370 0.386836706 0.9924286281
#> [978,] 1.4712973990 2.755919064 3.3640975437
#> [979,] 0.0990518187 0.120049068 0.1901378041
#> [980,] 1.2965396294 2.864194287 3.2062663847
#> [981,] 1.1765026102 2.639941906 2.9321319878
#> [982,] 0.5843790063 1.161202495 1.3731274692

```

```

#> [983,] -0.8368062686 -1.019066032 -1.6090193306
#> [984,]  1.6855391178  2.831418308  3.6731515166
#> [985,] -0.7267009177 -2.335021889 -2.2020206083
#> [986,]  0.6113808956  0.472088726  1.0243689847
#> [987,]  0.3306870990  0.169708650  0.5065412632
#> [988,]  1.6555867071  3.919103511  4.2394212196
#> [989,] -1.5001869991 -2.500582285 -3.2584210638
#> [990,] -1.9673526605 -3.076714769 -4.1606965221
#> [991,] -1.2823525079 -1.084146946 -2.2007235864
#> [992,]  1.3208929170  3.028246052  3.3276762985
#> [993,] -0.2597245605 -0.432632474 -0.5639641390
#> [994,] -0.7971740236 -1.419027312 -1.7815604943
#> [995,] -0.3239014639 -0.938203864 -0.9245623827
#> [996,]  0.4209010976  0.907878005  1.0286893659
#> [997,] -1.0993953232 -1.009361150 -1.9310767231
#> [998,] -1.7570197843 -3.319074798 -4.0329153846
#> [999,]  2.7353873768  4.404300244  5.8551745035
#> [1000,] 2.6546679102  4.779195294  5.9625700319
#> [1001,] -0.7475194781 -0.988948905 -1.4809667796
#> [1002,] -0.4540366903 -1.739568179 -1.5315619996
#> [1003,] -1.5708024977 -4.316340709 -4.3541470535
#> [1004,] -0.6273372017 -0.832702515 -1.2443917277
#> [1005,] -0.5906891115 -0.898705285 -1.2353210804
#> [1006,]  1.0540891638  1.883222264  2.3595371977
#> [1007,]  0.1937980629  0.091733924  0.2925707189
#> [1008,] -0.1378524175  1.365659330  0.5859845977
#> [1009,] -0.5137858849 -1.238039898 -1.3277408283
#> [1010,]  0.5823366391  0.859669159  1.2032423022
#> [1011,]  1.2318179788  2.688489882  3.0280512182
#> [1012,]  1.4358640567  2.509210735  3.1830000949
#> [1013,] -0.2909301518 -1.084569087 -0.9646744000
#> [1014,] -1.2911915730 -2.002894114 -2.7216119323
#> [1015,]  0.8739825041  2.823930267  2.6570014228
#> [1016,] -0.5329828085 -0.263548902 -0.8108772980
#> [1017,] -0.5244416896 -0.355748131 -0.8513934086
#> [1018,]  1.3472445489  1.982499882  2.7801909053
#> [1019,] -1.3288230739 -2.180075173 -2.8668657157
#> [1020,] -0.0869019250 -0.002224846 -0.1095996244
#> [1021,] -1.3099540662 -1.243222630 -2.3234225109
#> [1022,]  0.7512148565  0.547569013  1.2406274809
#> [1023,]  0.4434815812  2.196766913  1.7721261492
#> [1024,] -0.0994132262  0.791540976  0.3153058362
#> [1025,] -0.6230342344 -2.056643158 -1.9182618279
#> [1026,] -0.3688508684 -0.866154083 -0.9406287618
#> [1027,]  0.7341408046  0.585554615  1.2404169050

```

```

#> [1028,] 0.7852648228 1.533751424 1.8303770429
#> [1029,] -2.0339504662 -3.418058054 -4.4331738595
#> [1030,] 1.6614501670 1.208500367 2.7424615774
#> [1031,] 0.7235412003 0.474471430 1.1655528981
#> [1032,] 0.7632502051 1.285998978 1.6654330288
#> [1033,] 0.9076449138 2.774177667 2.6713671509
#> [1034,] 0.9744983562 2.662641365 2.6928340525
#> [1035,] 0.6724133356 1.019450541 1.4042380826
#> [1036,] 1.5473089955 2.181494334 3.1401007786
#> [1037,] -2.1358971613 -3.213138755 -4.4465776776
#> [1038,] 1.1050651224 0.634664038 1.7302056375
#> [1039,] -0.5676561421 -0.925502926 -1.2214710061
#> [1040,] 0.9903211753 1.293047873 1.9524977392
#> [1041,] -0.6858484791 -2.475488827 -2.2290317200
#> [1042,] 0.8442045497 2.233603718 2.2922624022
#> [1043,] -0.1782559474 0.299814713 -0.0558969176
#> [1044,] -0.1163788733 -1.189002929 -0.8049689260
#> [1045,] -0.2503105078 -1.340569030 -1.0560917828
#> [1046,] -2.0570393531 -1.710338772 -3.5142525275
#> [1047,] -1.7146188837 -3.490764104 -4.0753227029
#> [1048,] 0.1558653164 0.021224434 0.2061395428
#> [1049,] 0.1342876229 -0.848219457 -0.3032723586
#> [1050,] -0.9661662642 -0.887846261 -1.6975071276
#> [1051,] 1.0191987440 1.448022788 2.0745120673
#> [1052,] -0.9730999972 -0.903232103 -1.7146918498
#> [1053,] 1.5547266309 2.969047955 3.5864097050
#> [1054,] 1.1174932550 3.160245623 3.1472953044
#> [1055,] 1.6178594521 2.914214755 3.6347049156
#> [1056,] -0.1302763935 -0.028277641 -0.1781449126
#> [1057,] -0.7527014878 -0.704085235 -1.3293412297
#> [1058,] 0.1647307441 -0.870728680 -0.2778020840
#> [1059,] -1.1430207496 -1.092852875 -2.0318111517
#> [1060,] 1.8064842623 2.286038489 3.5213046791
#> [1061,] -0.1677990336 -2.542633117 -1.6202968978
#> [1062,] -1.2417291401 -1.455768824 -2.3563016581
#> [1063,] 2.8644357125 5.544932511 6.6490982982
#> [1064,] -0.1148720991 -1.295586426 -0.8622393872
#> [1065,] 0.8553101102 2.388094411 2.3918466758
#> [1066,] 0.1214810852 -0.223026205 0.0277142295
#> [1067,] -0.7668488160 -0.724587733 -1.3583606878
#> [1068,] 0.5400115799 -0.020677328 0.6619083746
#> [1069,] -0.0358757484 0.656954430 0.3198458766
#> [1070,] 0.6676702269 0.367885006 1.0367319305
#> [1071,] -0.4998796417 -1.421029108 -1.4119513769
#> [1072,] -1.1632093495 -2.923283167 -3.0727980997

```

```

#> [1073,] 0.6824013149 2.059200348 1.9937104998
#> [1074,] -0.6873405078 0.653266025 -0.4945643008
#> [1075,] -0.4741519529 0.092384932 -0.5399880452
#> [1076,] -0.7733472181 -1.602822249 -1.8538474487
#> [1077,] 0.3131660668 0.260088896 0.5348501455
#> [1078,] 0.8015271099 1.858926596 2.0311143893
#> [1079,] 0.7735200059 1.242991657 1.6543719985
#> [1080,] -1.2878349894 -2.464280786 -2.9734766264
#> [1081,] 0.4478563414 -0.197810882 0.4486909658
#> [1082,] 0.8649140524 1.509763181 1.9163855372
#> [1083,] -1.5669800293 -2.162475822 -3.1540756789
#> [1084,] -2.6248586538 -5.315788275 -6.2231851355
#> [1085,] 0.6018820865 0.961568260 1.2841648110
#> [1086,] -0.3808628893 0.394893581 -0.2557788506
#> [1087,] 1.6530286563 2.560043291 3.4820098615
#> [1088,] -1.5130517789 -2.726096038 -3.3996138730
#> [1089,] -0.1045030532 -0.359992181 -0.3300937644
#> [1090,] -0.5796349863 -0.384895094 -0.9363936677
#> [1091,] -0.9258237554 -1.901559366 -2.2097691734
#> [1092,] 0.2969693546 1.035432267 0.9449362847
#> [1093,] 1.2049105467 1.640305424 2.4127997101
#> [1094,] -0.2800720966 -1.595260322 -1.2345468803
#> [1095,] 0.6855511578 0.692110418 1.2389606156
#> [1096,] -0.8602281071 -1.618594540 -1.9709391068
#> [1097,] 0.9828887801 1.096072664 1.8339166999
#> [1098,] 0.5725704150 1.765027986 1.6935002634
#> [1099,] 2.8810297051 4.162896578 5.9028185887
#> [1100,] -0.0174674385 -0.323340967 -0.2012222385
#> [1101,] -0.2894117889 -0.044382474 -0.3855210125
#> [1102,] 1.1561590840 3.383889921 3.3196240259
#> [1103,] 0.0503098250 -0.399429842 -0.1589315134
#> [1104,] 0.4226875679 0.528442538 0.8203462597
#> [1105,] -0.0844033209 -1.057445582 -0.6920872445
#> [1106,] 0.6059112971 0.426587880 0.9922974424
#> [1107,] -0.6424143899 -0.934325160 -1.3195889870
#> [1108,] -0.4880799906 -0.096089280 -0.6619513208
#> [1109,] -0.6048523212 -0.938247713 -1.2749267058
#> [1110,] 2.0578254833 4.269265727 4.9353301389
#> [1111,] -1.1240278959 -1.769886083 -2.3838525349
#> [1112,] -0.7044118246 -0.945760950 -1.4032449083
#> [1113,] -0.6137874786 0.327486485 -0.5836391787
#> [1114,] -0.0910853918 0.155869408 -0.0270806300
#> [1115,] 1.0256862076 0.980244217 1.8230042804
#> [1116,] 0.7426690447 2.147099393 2.1176434195
#> [1117,] -1.7091293981 -4.195246814 -4.4594358352

```

```

#> [1118,] -1.2214310281 -3.171843462 -3.2833399022
#> [1119,]  1.3140768836  2.389336154  2.9646086007
#> [1120,] -0.2110595480 -0.201295703 -0.3748976391
#> [1121,]  0.2954553793  0.137427619  0.4446934065
#> [1122,]  1.7331291963  2.559917634  3.5818238666
#> [1123,]  2.7431784491  6.793395345  7.1907375666
#> [1124,] -0.1003339940 -0.359715084 -0.3247412552
#> [1125,]  0.0918351973 -0.428308070 -0.1231764287
#> [1126,] -0.0275725410 -0.838031148 -0.4994545969
#> [1127,] -0.6977888595 -1.934641439 -1.9437734749
#> [1128,]  1.6067365334  3.330209479  3.8516945174
#> [1129,] -1.5977777929 -2.406390942 -3.3278425413
#> [1130,]  0.5752957365  1.005468067  1.2753747301
#> [1131,] -0.2886772342  0.249497824 -0.2215137766
#> [1132,] -1.3649141838 -2.940366914 -3.3338006781
#> [1133,] -0.5062636766 -1.163966283 -1.2772530329
#> [1134,]  1.3563092306  0.801222051  2.1359346396
#> [1135,] -0.8292050622  0.442790074 -0.7882718473
#> [1136,] -0.1642810799 -0.776895140 -0.6359994318
#> [1137,]  0.2845187664  0.680071601  0.7322003642
#> [1138,] -0.4595924132 -0.917065749 -1.0820354603
#> [1139,] -0.4951993719 -0.639653147 -0.9724842322
#> [1140,] -1.2089640253 -1.795215363 -2.5038228455
#> [1141,]  0.4558443270  1.209611951  1.2397125670
#> [1142,] -0.0634842115 -0.861631141 -0.5573327255
#> [1143,]  0.9826312816  0.988354625  1.7738166030
#> [1144,]  0.0399131242 -0.291748808 -0.1121375217
#> [1145,]  1.2255723777  0.307645010  1.6989938578
#> [1146,]  0.6205303082  1.469676049  1.5893973125
#> [1147,]  0.5605140090  0.512199688  0.9831989187
#> [1148,]  0.2851350164  1.045745756  0.9359026614
#> [1149,]  0.2090935941 -0.122563697  0.1927177268
#> [1150,] -0.8539609151 -1.145618960 -1.7006424014
#> [1151,]  0.2393975764  0.866673293  0.7794912866
#> [1152,]  0.3050041449 -0.508285334  0.0982568682
#> [1153,] -2.2229052170 -4.630508740 -5.3416559475
#> [1154,]  1.9384431725  3.355225780  4.2792089305
#> [1155,]  0.9296038333  1.850552391  2.1861761176
#> [1156,]  1.8241536198  3.995792745  4.4921800357
#> [1157,] -1.1563695067 -0.834259447 -1.9049482536
#> [1158,] -0.5061941151  0.269315095 -0.4817551350
#> [1159,] -0.9020871995 -2.339002224 -2.4229326438
#> [1160,] -1.3858916215 -2.725718322 -3.2408381334
#> [1161,] -0.0718981038 -0.603652102 -0.4246571120
#> [1162,] -0.2763722639 -2.092694487 -1.5059883995

```

```

#> [1163,] -0.2244504695  0.103711207 -0.2223297797
#> [1164,] -1.9904236271 -5.012508444 -5.2637499887
#> [1165,]  0.6297111417  0.148123548  0.8674393175
#> [1166,]  0.3510499954 -0.984917521 -0.1088358039
#> [1167,] -1.1966127465 -2.566011539 -2.9161806592
#> [1168,]  1.7294118168  2.335178189  3.4524673876
#> [1169,] -1.5244140220 -3.114349408 -3.6292467234
#> [1170,] -0.9020822235 -1.169488018 -1.7738950195
#> [1171,] -1.6719781736 -3.069696975 -3.7884759799
#> [1172,]  1.3889322965  2.505456078  3.1223934697
#> [1173,] -1.6017087980 -3.926352141 -4.1762592521
#> [1174,]  0.5087479898  1.422915279  1.4240567719
#> [1175,] -0.9206793626 -0.644890220 -1.5059554585
#> [1176,] -0.0625121950  0.085650248 -0.0304191303
#> [1177,]  0.7553227363  0.372020664  1.1483279390
#> [1178,]  0.0495699418 -0.370610763 -0.1438607506
#> [1179,]  1.0348731938  2.342972122  2.5907171971
#> [1180,] -2.6148658588 -4.323371884 -5.6599747774
#> [1181,] -0.3862107596 -1.338505372 -1.2244113811
#> [1182,] -0.9755431488 -1.091394251 -1.8221605238
#> [1183,] -0.3654494258  0.410829166 -0.2277149937
#> [1184,]  0.0499881393  0.365178820  0.2649931462
#> [1185,] -0.7971382125 -1.259830419 -1.6931682283
#> [1186,]  1.1046040829  2.406083893  2.7126945846
#> [1187,]  0.2464314842 -0.692887871 -0.0772287240
#> [1188,]  0.6164563674  0.436680060  1.0110476670
#> [1189,]  1.7819437492  2.906189063  3.8348607640
#> [1190,]  0.1907214868 -0.174769894  0.1408358299
#> [1191,]  0.1862697725 -0.309207017  0.0606776584
#> [1192,] -0.7334920008 -3.082104028 -2.6250882586
#> [1193,] -1.9055522254 -3.130106633 -4.1132628892
#> [1194,] -0.2928407643 -1.226357910 -1.0457437551
#> [1195,] -0.7715321076 -0.896995508 -1.4598797535
#> [1196,]  1.8867439356  1.989469357  3.4568034035
#> [1197,] -1.4303503013 -2.347031192 -3.0861216983
#> [1198,]  0.2812921291  1.145177654  0.9862911995
#> [1199,]  0.6727752019  0.439691556  1.0829473593
#> [1200,]  0.9680923447  1.195987346  1.8709143116
#> [1201,]  1.4207324354  3.135649383  3.5117784935
#> [1202,]  1.3513842417  1.993775612  2.7916105758
#> [1203,]  1.1903543248  2.511810541  2.8782972503
#> [1204,] -0.6298719728 -2.630604048 -2.2453126117
#> [1205,]  1.3288789520  2.076653527  2.8095407113
#> [1206,] -1.2762211364 -1.995246714 -2.6987001162
#> [1207,]  0.7105990425  1.265889471  1.5886181689

```

```

#> [1208,] -0.2112271929 -0.137694632 -0.3398107573
#> [1209,]  0.0319557601 -0.478417532 -0.2256535190
#> [1210,]  0.2728298232 -0.578008982  0.0194424397
#> [1211,] -0.5815727281 -1.047214437 -1.3063694979
#> [1212,] -0.0231910377  0.783566879  0.4059280606
#> [1213,]  0.1482140308  0.668602427  0.5558662274
#> [1214,] -1.9788768482 -4.096577792 -4.7410482276
#> [1215,] -0.1187786344  0.366439717  0.0552441665
#> [1216,] -0.7168276816 -0.171275571 -0.9889202696
#> [1217,] -0.2270824891  0.399531806 -0.0614438077
#> [1218,] -0.8609951649 -1.252547947 -1.7687550784
#> [1219,] -0.8923119056 -1.201064794 -1.7792354211
#> [1220,] -0.0259766360 -0.457657676 -0.2863731844
#> [1221,]  1.8611392838  2.472290157  3.6928202538
#> [1222,] -0.1210523809  0.283817223  0.0065568261
#> [1223,]  0.2488732299  1.125783459  0.9351025270
#> [1224,]  0.3025401933  0.745385348  0.7909191107
#> [1225,]  2.2378198473  2.885735679  4.3919781885
#> [1226,]  0.3364979714  0.404511255  0.6440929178
#> [1227,]  0.4100496201  0.571755848  0.8286240703
#> [1228,]  0.5009560407  1.198719758  1.2899212428
#> [1229,] -1.0413392909 -0.813591054 -1.7500378279
#> [1230,]  1.3515456147  2.339964206  2.9839319796
#> [1231,] -1.1422034481 -2.557736708 -2.8437411890
#> [1232,]  0.2431881562  0.587554181  0.6293186414
#> [1233,]  2.2011381906  6.175217571  6.1717616372
#> [1234,] -0.3623489022 -0.384696584 -0.6653321880
#> [1235,] -1.9324503101 -2.710029341 -3.9136789430
#> [1236,] -1.4735935879 -1.371990976 -2.5989386976
#> [1237,]  0.4308492532  0.926934008  1.0516697965
#> [1238,]  0.8367979663  2.119120139  2.2194929505
#> [1239,]  2.0457350903  3.035360013  4.2354876551
#> [1240,] -0.2711076575 -0.599814793 -0.6709378164
#> [1241,]  1.2278076122  1.448043294  2.3346544514
#> [1242,]  1.0912460198  3.027381399  3.0408314556
#> [1243,] -0.3440578564 -0.926614623 -0.9432654499
#> [1244,]  0.2463196083  0.675913290  0.6822591041
#> [1245,] -0.0841753114 -2.019838165 -1.2258905114
#> [1246,] -0.9422446818 -1.320718868 -1.9079035762
#> [1247,] -0.6645990622 -1.153621951 -1.4689533582
#> [1248,]  0.0259310618  0.056396461  0.0636331798
#> [1249,] -1.2211671158 -1.461131963 -2.3336375508
#> [1250,] -1.2141882945 -2.885214723 -3.1152414117
#> [1251,]  1.2182296758  3.570520013  3.5005966751
#> [1252,]  0.6982104724  0.610751357  1.2095956506

```

```

#> [1253,] 0.7553464025 2.901453032 2.5520865124
#> [1254,] 0.1655184128 0.883712238 0.6968213780
#> [1255,] 0.1670680901 0.377436637 0.4177920317
#> [1256,] 0.4998837194 1.225746786 1.3035829489
#> [1257,] 1.0164212830 0.233168672 1.3968554592
#> [1258,] 0.4995231831 1.456765190 1.4313389096
#> [1259,] -1.3145539935 -0.706442090 -2.0312678006
#> [1260,] -1.6138659232 -2.474802985 -3.3858699309
#> [1261,] -1.3229770381 -2.302688248 -2.9276209515
#> [1262,] -0.2534397429 -1.164380438 -0.9622165830
#> [1263,] -2.8016745281 -4.086240575 -5.7613234295
#> [1264,] -1.0931101905 -1.906204348 -2.4209497165
#> [1265,] -1.1465804100 -1.973860145 -2.5251721246
#> [1266,] 0.3407011734 0.356576723 0.6227325664
#> [1267,] 0.2259743768 1.759292961 1.2581193741
#> [1268,] -1.4675967817 -2.288573043 -3.1001254742
#> [1269,] -0.4435198960 -0.020090665 -0.5642097421
#> [1270,] -0.1127699600 -0.274212738 -0.2927984289
#> [1271,] -0.0529459422 1.526238050 0.7809757077
#> [1272,] 1.7652672990 2.660034653 3.6774601792
#> [1273,] 1.8663322721 2.738894177 3.8472498736
#> [1274,] -0.7639011053 -0.846847344 -1.4225339178
#> [1275,] 1.1640107037 2.003009525 2.5630840304
#> [1276,] -0.1506207612 -0.261195324 -0.3327734860
#> [1277,] -0.1023295627 0.088914669 -0.0782589587
#> [1278,] -0.9233730284 -1.163500444 -1.7971213661
#> [1279,] -1.6147739546 -3.819543848 -4.1332771051
#> [1280,] 3.4682595827 5.682401357 7.4783438030
#> [1281,] -0.2560509848 -0.436971428 -0.5617912030
#> [1282,] -1.1490506220 -1.901740741 -2.4882291784
#> [1283,] -0.6320770867 -1.189375827 -1.4482410225
#> [1284,] -2.2517987775 -3.322746253 -4.6519322011
#> [1285,] -1.6177070414 -3.230220992 -3.8098850936
#> [1286,] -0.0568601770 0.938670969 0.4500196068
#> [1287,] 0.7908072615 1.677468970 1.9170455718
#> [1288,] 1.1069057161 1.627084523 2.2832526388
#> [1289,] 1.8134375089 3.363075643 4.1276857633
#> [1290,] 0.5383993757 1.421247059 1.4601056533
#> [1291,] -2.8869280241 -6.337780700 -7.1171433024
#> [1292,] -0.5054951373 -0.252262865 -0.7703374542
#> [1293,] -1.7223753822 -2.640141377 -3.6129348983
#> [1294,] -0.9236130693 -0.852866106 -1.6250316401
#> [1295,] -2.1097657963 -5.003262923 -5.4074363628
#> [1296,] 0.1915612489 2.094484324 1.4012240785
#> [1297,] -2.1240495847 -3.004254801 -4.3158821420

```



```

#> [1298,] -2.1260643028 -3.989016200 -4.8648958012
#> [1299,]  0.1258940888  1.584540003  1.0363407215
#> [1300,]  1.3075064552  1.444533590  2.4320895440
#> [1301,] -0.3114925148 -1.046763215 -0.9693345713
#> [1302,] -1.4544552140 -1.213213736 -2.4869588154
#> [1303,]  0.4368955700  2.607772986  1.9920046898
#> [1304,]  0.7716094692  1.501514780  1.7954591078
#> [1305,]  1.5193722685  2.115197126  3.0684720753
#> [1306,]  0.0417700618  0.172855842  0.1480141701
#> [1307,]  0.0258636742  0.943140412  0.5556549154
#> [1308,]  0.6716341856  2.391751232  2.1648359266
#> [1309,]  1.1764492515  2.760778876  2.9991249097
#> [1310,] -1.3785630702 -1.426282417 -2.5105670569
#> [1311,] -1.4425341411 -1.668008479 -2.7244855215
#> [1312,] -1.9740788605 -2.479881772 -3.8378666310
#> [1313,]  0.3330830139  0.905503019  0.9178639889
#> [1314,] -0.6864350238 -2.576182574 -2.2856439430
#> [1315,]  0.8421770243  1.506297592  1.8861096702
#> [1316,] -3.2959589287 -5.993518922 -7.4361456245
#> [1317,] -0.5716988844 -1.424287597 -1.5033168325
#> [1318,]  1.0179847108  2.685869930  2.7599515305
#> [1319,]  0.2015521646  0.980742743  0.7956025988
#> [1320,]  1.9818844964  2.808857173  4.0301676742
#> [1321,] -1.1934610127 -2.383011447 -2.8106931218
#> [1322,]  0.0120736396 -0.535680329 -0.2822245725
#> [1323,] -1.0470530638 -1.682785404 -2.2395292588
#> [1324,]  3.0593019191  3.533714629  5.7759507648
#> [1325,] -0.9285945223 -1.367559325 -1.9168765981
#> [1326,]  1.3521564499  2.555487442  3.1043000517
#> [1327,]  0.3764969340  1.093051720  1.0760819384
#> [1328,]  1.8947789782  3.196035136  4.1364164287
#> [1329,] -0.4260589214 -1.106979692 -1.1456141671
#> [1330,] -0.2123134733 -1.132397758 -0.8931839152
#> [1331,]  1.3628639005  1.497371545  2.5304420024
#> [1332,] -2.1868774483 -3.878829575 -4.8795795894
#> [1333,]  1.1181303852  2.147260114  2.5859252465
#> [1334,] -1.3518555316 -1.789633278 -2.6789078159
#> [1335,]  0.2517019046  0.587448113  0.6398762486
#> [1336,]  1.1752582125  1.835366504  2.4840745868
#> [1337,] -0.8177159660 -2.087342844 -2.1780630167
#> [1338,] -1.1808454369 -2.444124135 -2.8288767397
#> [1339,]  0.6426864551  1.522837683  1.6465280573
#> [1340,]  1.2335353020  1.983302977  2.6388434776
#> [1341,]  1.4201069402  2.266021381  3.0283913823
#> [1342,] -0.4190317299 -0.078954113 -0.5663402478

```

```

#> [1343,] -1.8664081099 -2.930810198 -3.9538497980
#> [1344,]  1.7494744979  3.584135628  4.1706042296
#> [1345,] -0.3449950599 -0.541640286 -0.7307894846
#> [1346,]  0.7670580925  2.211411980  2.1837468580
#> [1347,] -0.4051210705 -0.838268036 -0.9703813755
#> [1348,] -2.3275947948 -2.607371862 -4.3494454529
#> [1349,] -2.5742214515 -4.695748547 -5.8159454879
#> [1350,]  0.1239390818 -0.374081755 -0.0530502051
#> [1351,] -0.5420990240 -1.827335430 -1.6900810829
#> [1352,]  0.1487850187  0.311354072  0.3583203577
#> [1353,]  0.7293094531  1.235250028  1.5949460612
#> [1354,]  1.6436002386  2.184054602  3.2615948367
#> [1355,] -1.3681537384 -4.123773679 -3.9945815448
#> [1356,]  0.3148187014  1.080729889  0.9923323402
#> [1357,] -0.8603697729 -2.439411052 -2.4266345594
#> [1358,]  2.1526885861  2.335317864  3.9803623999
#> [1359,]  0.1387041903  0.179686938  0.2726800239
#> [1360,] -1.5822239776 -2.677082993 -3.4586700057
#> [1361,] -1.2498719222 -3.028780268 -3.2394110344
#> [1362,]  0.4298212256  0.323661666  0.7155969751
#> [1363,]  0.2265536542  0.984647387  0.8289458608
#> [1364,] -1.2695085297 -1.794609378 -2.5789843114
#> [1365,]  0.9277475309  1.368555355  1.9163731720
#> [1366,] -1.6994215649 -2.587966581 -3.5553571293
#> [1367,] -0.5338063626 -0.827439855 -1.1248401231
#> [1368,] -0.4899820315 -0.296488969 -0.7755365642
#> [1369,]  0.0702884964  0.505040807  0.3679248244
#> [1370,] -0.7690586252 -0.778401949 -1.3909809111
#> [1371,]  0.2150924343  1.336296226  1.0098043358
#> [1372,] -0.7320514947 -1.192017800 -1.5743732546
#> [1373,] -1.4077520260 -2.179994909 -2.9652439664
#> [1374,] -0.2507569419 -0.869865842 -0.7954279148
#> [1375,]  0.1252174196  0.417583152  0.3878847342
#> [1376,] -0.2949083039 -1.508437421 -1.2048642537
#> [1377,] -2.4985704787 -3.995510588 -5.3330075183
#> [1378,] -1.4004694854 -2.063983527 -2.8917813267
#> [1379,] -1.8424756913 -2.189956398 -3.5128637193
#> [1380,]  1.0836730521  1.226042342  2.0317203610
#> [1381,] -1.2932302218 -3.211590325 -3.3949298770
#> [1382,] -1.9816332206 -3.702035322 -4.5255308155
#> [1383,] -0.6184276201 -0.577909756 -1.0918823476
#> [1384,] -1.2399193250 -1.832102859 -2.5628944891
#> [1385,]  0.1520610486 -0.218424070  0.0684008121
#> [1386,] -0.5936365745 -1.714785935 -1.6918870996
#> [1387,]  0.0653386627 -0.217482530 -0.0392177189

```

```

#> [1388,] -1.6314521543 -2.901611066 -3.6446602181
#> [1389,]  1.2558076417  1.444138392  2.3674028596
#> [1390,]  0.8388394023  1.945219993  2.1255312792
#> [1391,] -0.9874506397 -0.698590339 -1.6190191970
#> [1392,] -2.1760160141 -4.486340882 -5.2031789427
#> [1393,]  1.0775191598  0.067865518  1.3813069362
#> [1394,] -1.6253769832 -3.520978839 -3.9808077861
#> [1395,] -0.4951046008 -2.455406918 -1.9800333753
#> [1396,]  0.8913155946  1.208102300  1.7818985626
#> [1397,]  0.5348028579  0.581431930  0.9895586336
#> [1398,] -0.3535079473 -0.107425264 -0.5004337237
#> [1399,] -1.1418991505 -2.279406338 -2.6889000336
#> [1400,] -1.2728532854 -2.711281338 -3.0918697121
#> [1401,] -0.3767340064 -0.380238344 -0.6807959830
#> [1402,]  0.0739238971 -0.096579545  0.0385839877
#> [1403,] -0.2676757569 -1.874478244 -1.3740431541
#> [1404,]  0.3225288154  1.843119489  1.4250410032
#> [1405,] -0.6589078126 -1.082005074 -1.4221121177
#> [1406,]  0.9901596830  1.533032336  2.0854776908
#> [1407,] -1.1384360393 -1.077862509 -2.0177750858
#> [1408,] -2.8666501514 -3.802079485 -5.6846491991
#> [1409,] -0.5832080840 -0.823024698 -1.1839928346
#> [1410,]  0.2830177387 -0.087776836  0.3042048784
#> [1411,] -0.7226378561 -1.265873947 -1.6036217087
#> [1412,] -0.8129857540 -2.176094446 -2.2214179626
#> [1413,] -1.6739539619 -2.052543074 -3.2264619186
#> [1414,]  0.0465212619 -0.187941043 -0.0462883456
#> [1415,]  0.4845079249 -0.875408877  0.1183562248
#> [1416,]  2.1396005244  2.715637949  4.1751035775
#> [1417,]  0.7766353405  0.845171166  1.4374830408
#> [1418,] -2.0115798424 -4.399392144 -4.9498774814
#> [1419,]  0.1583526813 -0.400220894 -0.0246432759
#> [1420,]  0.8880769633  0.548001425  1.4115317067
#> [1421,] -0.6542813779 -1.604106483 -1.7060874709
#> [1422,] -0.8255310418 -1.121837025 -1.6519929514
#> [1423,] -0.8290551560 -1.452792964 -1.8400541393
#> [1424,]  1.4217391929  3.084975459  3.4849119933
#> [1425,] -0.0007854030 -0.124714046 -0.0701904558
#> [1426,] -0.2945562359 -1.030277346 -0.9390664099
#> [1427,] -0.5739269375 -0.783488667 -1.1504785921
#> [1428,]  1.3414225506  2.505996707  3.0634498119
#> [1429,] -1.9786107697 -4.315856726 -4.8624070606
#> [1430,] -0.0207405092  0.967418082  0.5110135395
#> [1431,]  0.6633432148  0.193548025  0.9345865096
#> [1432,] -0.1044808994  0.936853470  0.3896289011

```

```

#> [1433,] -0.6120451374 -0.337415540 -0.9504593010
#> [1434,]  1.4128425863  3.439277358  3.6704408269
#> [1435,]  0.9417492436  1.092417983  1.7805883419
#> [1436,]  0.7603596993  0.333513738  1.1332391976
#> [1437,]  0.2175480109 -0.337239171  0.0841243118
#> [1438,] -0.3381795935 -0.254850658 -0.5631345009
#> [1439,]  1.2879019175  2.769081866  3.1427119226
#> [1440,]  0.1378857571 -0.316848953 -0.0038971762
#> [1441,] -0.3446351153 -0.938576956 -0.9506238737
#> [1442,] -0.0802131257 -0.283019411 -0.2570880554
#> [1443,]  2.0765678568  3.490769186  4.5266685100
#> [1444,]  1.8429240019  2.751952559  3.8253070931
#> [1445,]  0.4202899321 -0.161062421  0.4347100727
#> [1446,] -0.3599994892 -1.423873930 -1.2391024368
#> [1447,] -0.2495560351 -0.156990095 -0.3983142156
#> [1448,] -0.4868457044 -0.926427262 -1.1212150062
#> [1449,]  1.5113403926  3.034679060  3.5687304665
#> [1450,] -2.0632428181 -1.970103300 -3.6661465590
#> [1451,] -1.5885062213 -2.508338936 -3.3728579487
#> [1452,]  0.0022212077 -0.498361213 -0.2737998073
#> [1453,]  0.7584774895  1.360373734  1.7007564255
#> [1454,] -0.3946221745 -1.835116769 -1.5104987772
#> [1455,]  0.8624361604  1.784122011  2.0655533203
#> [1456,] -0.6392335034 -1.183154710 -1.4537124685
#> [1457,] -4.0984864814 -7.142921305 -9.0747513132
#> [1458,]  0.8850347791  1.087868330  1.7073416942
#> [1459,]  1.1149378812  2.014928515  2.5085057623
#> [1460,] -0.0615731208  0.503998342  0.2029175526
#> [1461,]  2.0533107963  2.627536880  4.0186096418
#> [1462,] -0.5013575883 -1.281015737 -1.3360927872
#> [1463,]  0.2104823571  0.403983161  0.4866609467
#> [1464,] -0.7021560823 -1.874245449 -1.9157020669
#> [1465,] -0.6376281759 -2.174833798 -2.0020510323
#> [1466,]  0.0028414903  0.766980891  0.4291855630
#> [1467,] -0.7064122717 -1.438271043 -1.6790619058
#> [1468,]  0.1570135640 -0.118359604  0.1301080870
#> [1469,]  0.7999666239  1.800499616  1.9967439674
#> [1470,]  0.6189509353  1.084216932  1.3735141953
#> [1471,]  0.3294570448  0.531703157  0.7058992061
#> [1472,]  0.2126016471  1.349174474  1.0138452638
#> [1473,] -0.7754263976 -0.718809763 -1.3658502253
#> [1474,]  1.6829292543  3.455695186  4.0163446001
#> [1475,] -1.0426107957 -0.302251350 -1.4678512415
#> [1476,] -0.8230724192 -0.951945924 -1.5546446512
#> [1477,]  1.0853653073  1.438982083  2.1520032096

```

```

#> [1478,] 2.3394246417 4.192107071 5.2436587221
#> [1479,] -1.3259202658 -1.415967054 -2.4391979590
#> [1480,] -1.3796947907 -2.503855581 -3.1099862799
#> [1481,] -1.7398253599 -3.576556341 -4.1543657643
#> [1482,] -0.3196145840 0.284936761 -0.2404248948
#> [1483,] -0.3241533806 -0.505358597 -0.6846655171
#> [1484,] 0.5037955833 2.124249780 1.8070925069
#> [1485,] -0.7364199627 -0.605773539 -1.2544796248
#> [1486,] -0.4169663187 -1.359593739 -1.2744660966
#> [1487,] 1.3773534450 1.478568326 2.5380751696
#> [1488,] 0.2901248711 0.207561213 0.4769675796
#> [1489,] -1.5744750271 -2.552732998 -3.3799981818
#> [1490,] 1.7467962405 4.105832060 4.4567841746
#> [1491,] 1.3215142144 1.735633472 2.6111051810
#> [1492,] 1.3152785411 3.202376800 3.4173105610
#> [1493,] 0.7739652542 0.992353730 1.5158336587
#> [1494,] 1.7219367883 3.044427298 3.8367497407
#> [1495,] 2.1642517625 3.965882292 4.8996764338
#> [1496,] 1.9265133185 3.496657138 4.3428211281
#> [1497,] 0.1010119533 -0.080018312 0.0815530324
#> [1498,] 0.1857389938 0.768409737 0.6580479694
#> [1499,] -0.5091051287 -0.648065234 -0.9944927834
#> [1500,] -1.1017415863 -1.430447105 -2.1676875402
#> [1501,] 0.1453101491 -0.507387687 -0.1003801307
#> [1502,] 0.4084461169 0.262358380 0.6549218935
#> [1503,] -0.2926059044 -0.320665859 -0.5428297206
#> [1504,] 0.7117822422 0.520320146 1.1763338347
#> [1505,] 0.3642365170 0.460236231 0.7096073466
#> [1506,] 0.6021699962 1.382434163 1.5180867843
#> [1507,] 1.9340541252 2.171449862 3.6167898060
#> [1508,] -1.4411863192 -2.516707533 -3.1937972565
#> [1509,] -0.9393433769 -1.702528946 -2.1161743157
#> [1510,] 0.0224974022 0.909567240 0.5328255383
#> [1511,] -3.1541690105 -6.809705876 -7.7122860757
#> [1512,] -0.3131832824 -0.550305278 -0.6959295547
#> [1513,] -0.5604379674 0.213367263 -0.5804448166
#> [1514,] 2.2030810927 3.825514516 4.8701975779
#> [1515,] -1.5017843779 -3.251244974 -3.6769993265
#> [1516,] -2.1891962461 -4.220183058 -5.0719079741
#> [1517,] -0.3493523916 -0.622495478 -0.7810942343
#> [1518,] -0.1953676412 1.033410628 0.3298801682
#> [1519,] -1.4207342031 -3.400864525 -3.6589639978
#> [1520,] -1.6744274303 -2.792728238 -3.6378240998
#> [1521,] -0.2033704255 -1.090988088 -0.8590514839
#> [1522,] -0.1751794067 0.078560977 -0.1748470942

```

```

#> [1523,] 0.3272456709 3.172527127 2.1686884051
#> [1524,] 0.3520671014 0.395552997 0.6585358470
#> [1525,] 1.3857685210 1.447385587 2.5312634832
#> [1526,] 0.4692934011 0.839302629 1.0509771185
#> [1527,] -1.7975764841 -2.644442419 -3.7090960372
#> [1528,] -1.1950337623 -1.881163024 -2.5341494454
#> [1529,] 0.4481799708 1.986438316 1.6612613797
#> [1530,] 0.9052427203 1.643707938 2.0410082957
#> [1531,] 0.6067313869 1.587481356 1.6375673524
#> [1532,] -0.4540695150 -1.289967557 -1.2820934096
#> [1533,] -1.5992556588 -4.352888492 -4.4099100546
#> [1534,] -1.5552981037 -2.788884415 -3.4871390985
#> [1535,] 0.2432996098 0.379391982 0.5139363165
#> [1536,] 0.1640478790 -0.254377546 0.0633954713
#> [1537,] 1.0145321795 3.191717970 3.0363707779
#> [1538,] -1.7134770347 -3.910429720 -4.3067956866
#> [1539,] -0.5812004822 -1.190203920 -1.3852584914
#> [1540,] -1.4081308116 -2.323166476 -3.0451705294
#> [1541,] -0.0077761627 1.163257070 0.6358622546
#> [1542,] 0.6594230116 1.533423254 1.6732727503
#> [1543,] -0.0311290354 0.081187673 0.0062384870
#> [1544,] -0.0379740333 0.634446285 0.3047382802
#> [1545,] 0.8187128659 1.944809661 2.1002061821
#> [1546,] -0.4012032785 -0.182116223 -0.6013591841
#> [1547,] -1.0086033244 -0.648372074 -1.6175271287
#> [1548,] -0.3394454021 -1.096602908 -1.0318501944
#> [1549,] 1.0146800246 0.924552888 1.7783734388
#> [1550,] 0.1572485605 -0.610550962 -0.1427444739
#> [1551,] -1.6702188590 -3.546222843 -4.0507340558
#> [1552,] 0.5501908300 0.611064980 1.0251922232
#> [1553,] 0.0008495602 1.521062093 0.8451851620
#> [1554,] 0.2095258232 1.072528847 0.8564830337
#> [1555,] -0.5504234943 -0.246287132 -0.8230459177
#> [1556,] 0.3276349633 1.649720850 1.3240801183
#> [1557,] 0.8545093920 0.824195835 1.5229499643
#> [1558,] 0.0677519792 0.668300454 0.4553641077
#> [1559,] -0.2857446953 -0.481132123 -0.6233259913
#> [1560,] 2.0727449839 3.777087317 4.6807960405
#> [1561,] -1.7067937761 -2.579596760 -3.5599052261
#> [1562,] 0.0149009352 -0.474001639 -0.2444699017
#> [1563,] -0.4342833992 -1.601778195 -1.4304623764
#> [1564,] -0.5174810433 -1.604026968 -1.5354561162
#> [1565,] -0.3636760201 -0.351315728 -0.6484620996
#> [1566,] -0.0215794400 0.212436510 0.0909842473
#> [1567,] 0.2022210218 1.738300041 1.2168492335

```

```

#> [1568,] -0.2344965706 -0.330383578 -0.4757614939
#> [1569,]  0.8234424754  1.540633916  1.8818032921
#> [1570,] -0.0713345990 -0.159664946 -0.1775601501
#> [1571,]  1.4546719480  1.980749979  2.9131795579
#> [1572,]  0.8895169663  1.218939613  1.7856699652
#> [1573,]  0.2882515684  1.581605608  1.2371687203
#> [1574,] -2.5225222860 -3.798372639 -5.2534716250
#> [1575,]  0.3130916579  0.950470772  0.9178903959
#> [1576,] -2.8267233962 -4.063172477 -5.7797570283
#> [1577,]  0.1605269093  0.166149833  0.2923799829
#> [1578,] -1.1614181151 -3.165660540 -3.2050737607
#> [1579,] -1.6551126521 -2.216963628 -3.2942137127
#> [1580,] -1.4608604706 -1.991208805 -2.9267007299
#> [1581,] -0.8557643687 -2.138326885 -2.2538026074
#> [1582,] -0.2137363917 -0.606481757 -0.6030969038
#> [1583,] -0.8424949411 -0.813809538 -1.5022042288
#> [1584,] -1.2184756032 -1.992379599 -2.6251014854
#> [1585,] -0.1664259983  0.157440082 -0.1201571713
#> [1586,]  1.1890800609  2.009128669  2.5977408761
#> [1587,] -0.6536603414 -1.266019007 -1.5176886569
#> [1588,]  1.9090142815  2.717008723  3.8883279577
#> [1589,] -1.1418167466 -2.193696475 -2.6412318925
#> [1590,] -0.0151524020 -0.068545747 -0.0569347558
#> [1591,] -0.9108205324 -0.307811683 -1.3065972234
#> [1592,]  1.3336994055  3.385504233  3.5419090613
#> [1593,] -0.7556527568 -1.258048822 -1.6404479994
#> [1594,] -0.6264606058 -2.055889006 -1.9221159204
#> [1595,]  2.1253631269  4.424160743  5.1055084515
#> [1596,]  0.5942166355  0.978399478  1.2839467716
#> [1597,]  1.4529391197  1.533330774  2.6627198302
#> [1598,]  0.4673271515  0.406786706  0.8084970167
#> [1599,]  0.0231471840 -0.505840767 -0.2518563807
#> [1600,] -1.8544678019 -3.341828619 -4.1670584932
#> [1601,] -0.1501863886  0.542279149  0.1136628605
#> [1602,] -0.2481449792 -1.229732644 -0.9918818588
#> [1603,]  1.2646322411  2.062473339  2.7215569623
#> [1604,] -0.8989914937 -1.794813671 -2.1170704991
#> [1605,] -0.6033064941 -1.335725470 -1.4935826050
#> [1606,] -0.3699632135 -0.269073655 -0.6106611944
#> [1607,]  0.8869236840 -0.094322730  1.0536305783
#> [1608,] -0.0727287850 -0.211939081 -0.2083086283
#> [1609,]  1.9078232495  2.059530786  3.5219700377
#> [1610,]  1.1873118460  1.842801431  2.5032312955
#> [1611,] -1.7940103439 -3.731952131 -4.3081714915
#> [1612,]  2.5424260736  3.952772385  5.3639766373

```

```

#> [1613,] 0.2854847895 0.896765160 0.8536608280
#> [1614,] 2.3944650104 4.884778021 5.6966963162
#> [1615,] -1.5662696979 -2.809145037 -3.5120642499
#> [1616,] 0.3811034077 0.456709356 0.7286827472
#> [1617,] 1.1641079730 1.472805603 2.2689643452
#> [1618,] -1.9157540399 -2.297888680 -3.6641382231
#> [1619,] 1.9018360717 3.345265037 4.2280328275
#> [1620,] 0.1539852024 0.225153051 0.3169669233
#> [1621,] -0.1760565395 0.600386158 0.1136502670
#> [1622,] -0.7588370768 -1.295153474 -1.6650103099
#> [1623,] -2.7685987910 -5.368073679 -6.4314423650
#> [1624,] -0.0167065857 -0.094035043 -0.0730182834
#> [1625,] 1.2317275279 1.623268779 2.4367853139
#> [1626,] 0.3574343307 0.734761492 0.8534751850
#> [1627,] -0.3149150326 -0.570310485 -0.7091910638
#> [1628,] 0.7175857359 1.222787191 1.5734104719
#> [1629,] 1.0674658230 1.532951913 2.1818322390
#> [1630,] 1.5234399669 2.382685762 3.2219894058
#> [1631,] -0.2034564325 -0.943646673 -0.7773904167
#> [1632,] -1.2289549283 -2.188944302 -2.7472541703
#> [1633,] 0.7222896898 1.632802688 1.8068176409
#> [1634,] 0.1113957507 0.397883641 0.3597169914
#> [1635,] -0.7960028995 -1.190936447 -1.6535192460
#> [1636,] 1.1515049622 2.140927880 2.6240285384
#> [1637,] 0.8424133248 0.816905565 1.5038206205
#> [1638,] -0.1719528718 -0.346121049 -0.4065044150
#> [1639,] -0.6566135024 -1.149773335 -1.4568597074
#> [1640,] 2.4688111525 3.844459657 5.2120713026
#> [1641,] 0.4245308840 -1.690649593 -0.4088583869
#> [1642,] 0.1852384208 -0.118400488 0.1652812187
#> [1643,] 0.7706918040 1.432185730 1.7558400781
#> [1644,] -0.3990356400 -1.494441594 -1.3269418197
#> [1645,] 0.9913966751 1.462440251 2.0478445431
#> [1646,] -0.5798368966 -0.462667659 -0.9798059636
#> [1647,] 0.4082740113 -0.526418978 0.2169688722
#> [1648,] -2.0963630066 -3.576822069 -4.5991084051
#> [1649,] -1.1252644555 -1.857709141 -2.4341326195
#> [1650,] 1.2642624813 0.615131128 1.9178815498
#> [1651,] 0.8514356824 0.514671889 1.3473442801
#> [1652,] 0.2905965362 0.470913051 0.6237049809
#> [1653,] -1.5805999005 -2.415669575 -3.3115713126
#> [1654,] -0.0136773145 0.542553824 0.2840393246
#> [1655,] 1.8016792603 2.515429663 3.6426154369
#> [1656,] -1.0051471408 -1.066751391 -1.8454003425
#> [1657,] 0.6680355371 1.659511989 1.7539863631

```



```

#> [1658,] -0.3884998801 -1.338209064 -1.2271014292
#> [1659,] -2.0978111170 -2.750663235 -4.1424306062
#> [1660,] 1.2535597159 0.473258146 1.8258018543
#> [1661,] 0.0834215989 0.280230535 0.2595412467
#> [1662,] -0.7314936031 -0.910278528 -1.4173240750
#> [1663,] -0.4678674579 -1.599204697 -1.4709128285
#> [1664,] 0.5266037649 1.133890935 1.2859261491
#> [1665,] -1.1350603009 -1.708247412 -2.3634028369
#> [1666,] 1.8376413515 3.186791539 4.0600371640
#> [1667,] -0.4737692386 -0.207128728 -0.7057283491
#> [1668,] -0.4584129100 -2.098337675 -1.7361211056
#> [1669,] 0.2749894612 0.223966720 0.4671984018
#> [1670,] 1.5246535935 1.065315736 2.4924175648
#> [1671,] -3.5452963631 -6.430181656 -7.9893938546
#> [1672,] -1.7823314276 -3.736064967 -4.2958905728
#> [1673,] 0.2508875582 -0.421944207 0.0786902987
#> [1674,] 0.5375480058 0.961233384 1.2037556824
#> [1675,] -0.8772063170 -2.073532846 -2.2445823005
#> [1676,] -0.4700508510 -0.226588405 -0.7118909020
#> [1677,] -0.6327920862 -2.109775967 -1.9599161548
#> [1678,] -0.2300446562 -1.241071511 -0.9756037218
#> [1679,] -0.2049043787 -0.769383228 -0.6824870601
#> [1680,] 0.6022773183 2.021368620 1.8728024855
#> [1681,] -0.2349656509 -0.221825881 -0.4161014511
#> [1682,] 0.0751130571 -0.189685055 -0.0116028137
#> [1683,] 1.7531383030 3.762866201 4.2743609047
#> [1684,] 1.4281361760 2.601498138 3.2245792301
#> [1685,] -1.6104927010 -2.257655888 -3.2611560446
#> [1686,] -1.1397388009 -1.896638419 -2.4737859525
#> [1687,] 0.3570868568 1.230455940 1.1281315572
#> [1688,] -0.0409640348 0.640776440 0.3045227803
#> [1689,] -0.6012105981 -0.443581685 -0.9958666168
#> [1690,] 0.9317728590 1.055907733 1.7478863338
#> [1691,] -3.3045555097 -5.649093347 -7.2557236117
#> [1692,] -0.8930450548 -1.578916097 -1.9898412963
#> [1693,] 0.9283255549 1.216118172 1.8324977014
#> [1694,] -0.3785614087 0.603637425 -0.1370648578
#> [1695,] 1.1612753577 1.646954365 2.3620774032
#> [1696,] 0.0715440241 -0.501030665 -0.1888371031
#> [1697,] 0.8647913601 1.352570405 1.8289971331
#> [1698,] -0.3341946269 -0.845749450 -0.8860894185
#> [1699,] 1.4660117350 1.946866760 2.9085162731
#> [1700,] 0.1684347777 -0.737084621 -0.1990163720
#> [1701,] -0.6192991506 -1.046771920 -1.3531679988
#> [1702,] 0.1717893583 0.720973885 0.6143281465

```

```

#> [1703,] -0.0827614664 -0.220458623 -0.2255471664
#> [1704,] -0.7835321807 -1.011423898 -1.5383465656
#> [1705,] 0.2141252021 0.028498669 0.2828253277
#> [1706,] -0.4855236193 -0.124032153 -0.6742707021
#> [1707,] -1.2987409445 -3.090217462 -3.3344447789
#> [1708,] 0.2116672067 -0.004017180 0.2617153226
#> [1709,] -1.1096288876 -1.184448619 -2.0410039836
#> [1710,] 0.3148232999 0.318312725 0.5692284691
#> [1711,] -0.9217631753 -1.837567860 -2.1691931063
#> [1712,] -2.3891129696 -3.780034560 -5.0769360627
#> [1713,] -1.3064861165 -3.661738798 -3.6612732634
#> [1714,] 0.3581166561 1.610998400 1.3406008290
#> [1715,] 0.3137486187 1.302861431 1.1142716743
#> [1716,] -1.0440216060 -1.116624117 -1.9215532828
#> [1717,] 1.0445918734 2.712452940 2.8078825772
#> [1718,] 0.1847005708 0.268354257 0.3792432215
#> [1719,] -0.2694392085 -2.357851034 -1.6444938030
#> [1720,] -0.4038532960 -0.098647977 -0.5583423202
#> [1721,] 0.8711766412 1.403094672 1.8649983010
#> [1722,] 0.8843069274 1.412119649 1.8863799848
#> [1723,] 2.7654592523 4.452386193 5.9193592078
#> [1724,] -1.0575202481 -1.564436275 -2.1869028126
#> [1725,] 0.4594186544 0.867628175 1.0543830031
#> [1726,] 1.2013591298 2.381458712 2.8196802100
#> [1727,] -0.3177522821 0.404631200 -0.1716772399
#> [1728,] 1.5639931882 2.899924881 3.5596045013
#> [1729,] 1.2168782496 1.733827463 2.4796240075
#> [1730,] -1.1959394983 -1.300924886 -2.2132710067
#> [1731,] 0.1861557072 -0.594874485 -0.0979980632
#> [1732,] -0.2907416504 -0.502378771 -0.6413480923
#> [1733,] -0.8372868836 -1.892788586 -2.0944980843
#> [1734,] -2.0416101702 -3.016101781 -4.2196564513
#> [1735,] 0.4830558820 1.081983149 1.2028161795
#> [1736,] 0.4048544393 0.320545725 0.6827346851
#> [1737,] -0.3725017138 -0.654929367 -0.8279604174
#> [1738,] 0.6851377123 1.777233856 1.8406431343
#> [1739,] 1.6091532775 2.328625136 3.2988707719
#> [1740,] 0.8205008918 1.854623118 2.0523860581
#> [1741,] 0.9358534466 0.834468078 1.6300850060
#> [1742,] 1.0775579072 2.571706667 2.7708822601
#> [1743,] 1.3106806210 0.996326512 2.1873115014
#> [1744,] -0.3980608428 -0.053603391 -0.5261213896
#> [1745,] 1.0263518621 1.624340212 2.1812806482
#> [1746,] -0.2664340751 0.315544874 -0.1571236637
#> [1747,] 0.5349600806 0.456737256 0.9205543635

```

```

#> [1748,] 0.7687404550 1.406397124 1.7390951891
#> [1749,] 0.2612140792 -0.169961370 0.2314071846
#> [1750,] 1.2705957996 1.889329145 2.6329056198
#> [1751,] -0.9187133949 -2.249328404 -2.3938999548
#> [1752,] 0.7432740604 2.174465705 2.1335850191
#> [1753,] -0.1539350041 -1.341589570 -0.9364798523
#> [1754,] -2.4183544558 -3.606235600 -5.0169484537
#> [1755,] -0.4920605845 -1.199687209 -1.2793656850
#> [1756,] -0.4822841686 -0.724705439 -1.0035796981
#> [1757,] -1.5088689218 -3.333414888 -3.7314344696
#> [1758,] -0.8966592010 -1.326524690 -1.8542813994
#> [1759,] 1.2349264051 1.630226540 2.4446355146
#> [1760,] 1.0441398086 2.576398337 2.7318142534
#> [1761,] 2.1624145997 2.944982443 4.3308288565
#> [1762,] -0.3808084346 -0.305487669 -0.6443932170
#> [1763,] -0.2650608834 0.136095857 -0.2549980125
#> [1764,] 0.4911062379 0.598091550 0.9443152316
#> [1765,] -0.9202867414 -2.246866343 -2.3944955446
#> [1766,] 0.5176006478 0.860421713 1.1229354773
#> [1767,] 0.4445268975 0.634914369 0.9066668670
#> [1768,] -1.4873587054 -1.954873138 -2.9395787142
#> [1769,] 0.4367109569 -0.361676983 0.3438540731
#> [1770,] 0.3060164347 0.552749434 0.6883490461
#> [1771,] -0.6447185757 -1.539953329 -1.6585605369
#> [1772,] -2.6760839246 -3.176528692 -5.0998625015
#> [1773,] -0.1808066814 -0.537852387 -0.5239478001
#> [1774,] 0.9778808626 1.345024450 1.9658297467
#> [1775,] -0.8126844423 -1.753779769 -1.9866752686
#> [1776,] 0.4260372800 2.230592027 1.7691449833
#> [1777,] 0.7100026759 1.395589778 1.6598527518
#> [1778,] 0.0307041144 1.247745672 0.7307340119
#> [1779,] 1.5565918691 1.154956168 2.5819906297
#> [1780,] 0.5245294418 2.862007404 2.2423717985
#> [1781,] 0.9540259055 2.071224316 2.3390936230
#> [1782,] -1.5819229580 -1.541413405 -2.8280455672
#> [1783,] 1.5683539180 1.719147652 2.9097603170
#> [1784,] -1.1334424178 -2.732931760 -2.9300422816
#> [1785,] 1.4735757035 4.203454387 4.1702600416
#> [1786,] -0.2564033299 0.131539551 -0.2467307793
#> [1787,] 0.2124927283 -1.205361483 -0.4039510591
#> [1788,] -2.2697188998 -3.199447335 -4.6058524912
#> [1789,] 1.5843836638 3.839653226 4.1065408953
#> [1790,] 2.5872588353 4.479800398 5.7123606585
#> [1791,] 0.2976675734 -0.608198979 0.0336604233
#> [1792,] 0.2776672067 1.238118333 1.0333491808

```

```

#> [1793,] -0.4460606210  0.445844751 -0.3088033260
#> [1794,]  2.2608022377  2.460253131  4.1845117607
#> [1795,]  0.2474237884 -0.217728376  0.1877022848
#> [1796,]  1.4765303464  2.028754831  2.9670772175
#> [1797,]  0.1726292169  0.143761220  0.2950465704
#> [1798,] -0.3137794608  0.706558898  0.0008340185
#> [1799,]  0.2448279193  0.271047462  0.4557154150
#> [1800,] -0.4553013676 -0.371031992 -0.7736587404
#> [1801,] -0.4998307551 -1.803021916 -1.6238804316
#> [1802,]  1.3955113796  2.671802404  3.2229126984
#> [1803,] -1.2775215161 -1.769957173 -2.5752954007
#> [1804,]  1.8633434918  1.070330737  2.9175400757
#> [1805,]  0.4501910088  1.058951987  1.1490530226
#> [1806,]  1.7277120640  3.229310115  3.9465536144
#> [1807,] -2.0219968032 -3.317529997 -4.3624790226
#> [1808,]  1.4767873429  2.625197656  3.2983984832
#> [1809,] -0.0629118716 -0.441249097 -0.3233245953
#> [1810,] -1.3440352781 -1.827962274 -2.6904271077
#> [1811,] -2.8971855829 -5.278597538 -6.5421319596
#> [1812,]  1.2282237555  2.544236845  2.9435148990
#> [1813,] -1.3187345255 -1.113774346 -2.2625331869
#> [1814,]  1.8634905770  3.667960789  4.3592994092
#> [1815,] -0.1020449420  0.204731098 -0.0136307737
#> [1816,]  0.2430808662  1.241471797  0.9920817515
#> [1817,] -0.4143488266 -0.321393339 -0.6950443829
#> [1818,] -0.5347224778  0.284826829 -0.5087210586
#> [1819,]  0.1275174148  0.149681615  0.2420786447
#> [1820,]  0.9112878150  1.778174227  2.1231695660
#> [1821,] -1.0176305612 -1.645068093 -2.1819084702
#> [1822,]  0.9340762404  1.839445122  2.1855890493
#> [1823,] -0.2730192679  0.065440602 -0.3041326641
#> [1824,] -0.8393377809 -1.419278594 -1.8342772906
#> [1825,]  1.0808241507  1.651080925  2.2640464574
#> [1826,] -1.5221345808 -3.493084363 -3.8365863499
#> [1827,]  1.2132435668  1.714930492  2.4646046046
#> [1828,]  0.3388531643  0.390444818  0.6392235116
#> [1829,] -1.4670333653 -2.507011335 -3.2206470120
#> [1830,] -0.9772292796  0.680552162 -0.8409070233
#> [1831,]  0.1580114343  0.499793556  0.4744015339
#> [1832,] -0.2483546445 -0.152003212 -0.3940485948
#> [1833,] -2.0372805887 -3.349357574 -4.3992005638
#> [1834,]  0.2869459794  0.060649480  0.3914737055
#> [1835,]  0.0513010701 -0.076730992  0.0213889001
#> [1836,] -1.1307733245 -2.933389263 -3.0379594984
#> [1837,] -0.6528874151 -1.320127933 -1.5467530222

```

```

#> [1838,] 0.8480777654 0.981139495 1.6020270172
#> [1839,] 2.1942903969 3.103169528 4.4583645344
#> [1840,] 1.8026646977 3.233435549 4.0423074632
#> [1841,] -0.6324964327 -2.050549060 -1.9266790271
#> [1842,] 0.7849302066 1.594705005 1.8637864689
#> [1843,] -0.1353048299 2.015589841 0.9498456099
#> [1844,] -1.0073626881 -1.721837399 -2.2117083922
#> [1845,] 0.4549553496 1.632772905 1.4734406431
#> [1846,] -0.5234109541 -0.539336882 -0.9519921727
#> [1847,] -1.1774428666 -1.422697625 -2.2577848560
#> [1848,] -0.1006038617 -0.151984462 -0.2097959767
#> [1849,] 0.1067415700 -0.024462739 0.1195287644
#> [1850,] 0.0579569534 -0.156607585 -0.0146395142
#> [1851,] 0.4846795835 0.103700355 0.6619349101
#> [1852,] -1.2679417612 -1.672232250 -2.5091164010
#> [1853,] -0.4250539161 -0.989047728 -1.0789136437
#> [1854,] 1.0508148502 1.874380524 2.3505473998
#> [1855,] -1.0997405066 -2.718638342 -2.8800844369
#> [1856,] 0.5603551249 0.027276399 0.7138886710
#> [1857,] 0.7309512136 1.575694302 1.7859256212
#> [1858,] -2.8962394569 -4.140744726 -5.9094914888
#> [1859,] -0.7877662434 -1.319044185 -1.7143427350
#> [1860,] -1.7104057131 -2.056155494 -3.2739212506
#> [1861,] 0.8832321043 1.011636637 1.6627883977
#> [1862,] -1.0302180604 -1.141991492 -1.9184183738
#> [1863,] -0.4952775629 -0.922428273 -1.1295100907
#> [1864,] -1.2535122686 -0.997494613 -2.1166719794
#> [1865,] -2.5062067874 -3.584500458 -5.1144364255
#> [1866,] 1.0090744898 1.413173545 2.0425474585
#> [1867,] 0.1456736062 0.365342846 0.3844019989
#> [1868,] 0.1177628385 0.197887208 0.2566669729
#> [1869,] 1.9447657956 5.618405875 5.5430633106
#> [1870,] -0.9052829353 -1.197854475 -1.7936284380
#> [1871,] 0.1544703798 -1.302115528 -0.5299981884
#> [1872,] -0.5084521628 -0.068515058 -0.6720524652
#> [1873,] 1.4370980614 2.487938408 3.1727336230
#> [1874,] 0.0578238371 0.155199518 0.1582343803
#> [1875,] 1.9088622210 3.660030430 4.4114759070
#> [1876,] 0.6666491531 1.259253253 1.5301307299
#> [1877,] -0.6702199625 -1.592331729 -1.7194280654
#> [1878,] -0.1409583363 -0.098144418 -0.2302382135
#> [1879,] -0.3593603879 -1.253732073 -1.1438838833
#> [1880,] 0.4271846358 0.248024081 0.6703335088
#> [1881,] 0.9161461240 2.508066571 2.5342874700
#> [1882,] -0.3039359521 -1.485045906 -1.2031402349

```

```

#> [1883,] 0.8446380141 -0.236814305 0.9218243516
#> [1884,] 1.3459514398 1.784997796 2.6689730358
#> [1885,] -1.2595081621 -0.943243975 -2.0940419032
#> [1886,] 2.0872307294 3.506150539 4.5485009020
#> [1887,] 0.2585353253 -0.068218114 0.2845300807
#> [1888,] 1.5014698023 2.146354325 3.0634390062
#> [1889,] 0.3357772474 -0.137103880 0.3426204655
#> [1890,] -0.7483075026 1.128418729 -0.3068990433
#> [1891,] 0.6213330250 0.558304926 1.0846254680
#> [1892,] -0.0864581069 0.542592287 0.1933045063
#> [1893,] 0.7717609929 2.865304117 2.5524940377
#> [1894,] -0.0028909056 -1.112296837 -0.6208830750
#> [1895,] -1.3281636456 -3.140306326 -3.3989315091
#> [1896,] -3.0907701727 -6.673857075 -7.5578386215
#> [1897,] 0.7939808800 2.380926346 2.3113924007
#> [1898,] 0.7967599294 0.029882374 1.0101268476
#> [1899,] 1.0081457292 2.134103979 2.4414755195
#> [1900,] 2.2665156647 4.368906863 5.2508591974
#> [1901,] 0.2384995594 -0.983995267 -0.2486720891
#> [1902,] 0.4204616279 1.852813432 1.5525409552
#> [1903,] 0.4824323735 0.355667262 0.7989637693
#> [1904,] 0.1044149124 -0.027489379 0.1149478115
#> [1905,] -0.4875365592 0.443139368 -0.3620243493
#> [1906,] -0.3611153347 0.983829579 0.0956807684
#> [1907,] -0.8774510665 -0.325247550 -1.2746623558
#> [1908,] 0.3641675047 0.398476917 0.6752474561
#> [1909,] 1.2412124741 0.300670513 1.7146261852
#> [1910,] 0.1062425811 0.275779293 0.2855282929
#> [1911,] -0.1689368041 0.113207824 -0.1478351467
#> [1912,] -1.3705995649 -3.079861828 -3.4183040692
#> [1913,] 1.2218262272 0.970334626 2.0620874762
#> [1914,] -1.3789414592 -2.325848252 -3.0102602761
#> [1915,] -1.6856673509 -2.638099282 -3.5660274552
#> [1916,] -0.7011831543 -0.560283050 -1.1852947266
#> [1917,] -1.0829267148 -1.791447822 -2.3445660629
#> [1918,] -0.5502146251 -1.153910598 -1.3264784852
#> [1919,] 1.5765738813 3.122969921 3.6990730279
#> [1920,] 0.2074547487 1.851314561 1.2860939112
#> [1921,] 0.5238240139 0.745375006 1.0668497824
#> [1922,] -0.0562254696 -0.214263251 -0.1890191477
#> [1923,] -0.1008076689 -0.355413954 -0.3229449709
#> [1924,] 0.6764636696 1.938097171 1.9190991845
#> [1925,] -1.0305387423 -1.211077394 -1.9571580408
#> [1926,] 0.7283674633 1.512964418 1.7478912780
#> [1927,] 0.4023189440 1.396710607 1.2767994267

```

```

#> [1928,] 2.1161793409 4.322707899 5.0377543769
#> [1929,] 1.0978373168 3.353993020 3.2303064438
#> [1930,] -1.8266156689 -2.936214939 -3.9072288408
#> [1931,] -0.9735356713 -1.250790091 -1.9081152580
#> [1932,] -1.7142723810 -1.740280828 -3.1034456919
#> [1933,] 0.8524883737 0.808331265 1.5116256231
#> [1934,] 0.3048496317 0.112974768 0.4428375393
#> [1935,] 0.2162803158 -0.315144965 0.0948048812
#> [1936,] 0.0254860262 0.333084409 0.2166284563
#> [1937,] -0.3660368148 0.598557350 -0.1242661737
#> [1938,] -1.6785882685 -2.379673182 -3.4137843179
#> [1939,] -0.9251288505 -1.526682080 -2.0008614427
#> [1940,] -0.7349441687 -1.097738402 -1.5256592413
#> [1941,] 0.7044499178 1.086620522 1.4814635744
#> [1942,] -0.3233407853 -1.745762818 -1.3720246366
#> [1943,] -0.2701821775 -1.149412182 -0.9747873021
#> [1944,] -1.2441559574 -2.516130468 -2.9477841676
#> [1945,] 0.7088487836 0.083722261 0.9303823247
#> [1946,] -0.3887213232 -0.444938444 -0.7316497693
#> [1947,] 0.5723175085 1.159746501 1.3572790120
#> [1948,] 1.0217045079 1.641156220 2.1848176726
#> [1949,] 0.0607088157 0.687908271 0.4574629443
#> [1950,] 1.8984511748 1.893432155 3.4181054654
#> [1951,] 0.7657796478 0.739706389 1.3654176776
#> [1952,] 0.4343423591 -0.099935197 0.4861562126
#> [1953,] -0.0500225347 0.470895672 0.1989503023
#> [1954,] 1.2618492015 1.738661834 2.5383847412
#> [1955,] -0.1849002775 -0.608393450 -0.5681997674
#> [1956,] -1.6622222808 -2.402301511 -3.4059340400
#> [1957,] -2.0210651880 -2.492706728 -3.9035749369
#> [1958,] -1.6968299358 -3.024969737 -3.7946438758
#> [1959,] 0.2228082356 -1.046933349 -0.3031668503
#> [1960,] -1.8321264337 -3.951096649 -4.4773175102
#> [1961,] 0.5046476449 1.037554707 1.2050847425
#> [1962,] -0.0585277653 -0.871470124 -0.5566123618
#> [1963,] 1.7936883771 3.204636805 4.0151320768
#> [1964,] -0.5924478551 -0.517736128 -1.0260922659
#> [1965,] -1.6101311805 -2.789348555 -3.5557724054
#> [1966,] 0.0375891594 0.527821738 0.3397918807
#> [1967,] -0.7201206960 -1.857327839 -1.9287150081
#> [1968,] -1.4805577694 -2.675414669 -3.3309684677
#> [1969,] -0.7496989237 -1.241677184 -1.6239381173
#> [1970,] -2.0699943468 -3.641327819 -4.6020252150
#> [1971,] 2.3146175575 3.710406592 4.9454011963
#> [1972,] 0.7635547647 0.742809459 1.3643653677

```

```

#> [1973,] -0.3707878753 -1.293218715 -1.1800471601
#> [1974,]  0.4688114055  0.339502542  0.7730079572
#> [1975,]  0.4396834816  0.462563942  0.8049799549
#> [1976,]  0.1090874295  0.097991561  0.1904110131
#> [1977,] -0.6421768648  0.120367715 -0.7339824102
#> [1978,] -0.4666928251 -0.728691051 -0.9863494590
#> [1979,]  0.7120246906  1.742462762  1.8548741465
#> [1980,] -0.9516214366 -1.864751483 -2.2215115218
#> [1981,]  1.0061305782  1.279606068  1.9647521028
#> [1982,] -1.4522429655 -2.267627545 -3.0693557040
#> [1983,]  1.2794883430  3.003573372  3.2623533348
#> [1984,] -2.2488984445 -4.320143004 -5.2018289830
#> [1985,]  0.7677670861  1.040778995  1.5349786638
#> [1986,]  1.1801835597  1.724567706  2.4287277005
#> [1987,]  0.1364985191 -0.372818873 -0.0366879961
#> [1988,]  0.3667481550  0.190458332  0.5630238689
#> [1989,] -0.2209324188 -1.369396047 -1.0354556921
#> [1990,] -1.0399587887 -3.142045038 -3.0405108436
#> [1991,]  0.0558762394 -0.637704450 -0.2842227395
#> [1992,]  0.2091298506 -1.607450213 -0.6312869094
#> [1993,]  0.4156071092  0.849386683  0.9896276353
#> [1994,]  0.3494040221  0.959534909  0.9682013900
#> [1995,] -1.4343231258 -3.755723575 -3.8728410230
#> [1996,]  0.1872222947  0.513925649  0.5186696009
#> [1997,] -1.6529725621 -3.404237314 -3.9504322513
#> [1998,]  1.4015933736  3.364715211  3.6150344181
#> [1999,]  0.9553879919  1.642413083  2.1028198362
#> [2000,]  0.0264669930 -0.803897684 -0.4131257565
#>
#> [[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/>