

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	0.1055	100	0.3239	0.3335	0.3800	0.7712	0.8101	0.8181
#> visual=~x3	0.7294	0.1156	100	0.4031	0.4330	0.4840	0.9437	0.9592	0.9665
#> textual=~x4	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> textual=~x5	1.1131	0.0653	100	0.9232	0.9426	0.9968	1.2237	1.2397	1.2417
#> textual=~x6	0.9261	0.0535	100	0.7842	0.8002	0.8335	1.0366	1.0795	1.1110
#> speed=~x7	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> speed=~x8	1.1800	0.1808	100	0.7931	0.8021	0.8528	1.5187	1.6487	1.7423
#> speed=~x9	1.0815	0.1601	100	0.6776	0.6898	0.7671	1.3824	1.4355	1.4604
#> x1~~x1	0.5491	0.1051	100	0.3141	0.3328	0.3891	0.7386	0.7638	0.7682
#> x2~~x2	1.1338	0.1113	100	0.8727	0.8888	0.9097	1.3083	1.3331	1.3436
#> x3~~x3	0.8443	0.0944	100	0.5973	0.6148	0.6539	1.0091	1.0726	1.0911
#> x4~~x4	0.3712	0.0572	100	0.2463	0.2531	0.2731	0.4867	0.5284	0.5466
#> x5~~x5	0.4463	0.0578	100	0.3185	0.3237	0.3313	0.5532	0.5858	0.6082
#> x6~~x6	0.3562	0.0431	100	0.2561	0.2664	0.2887	0.4455	0.4523	0.4523
#> x7~~x7	0.7994	0.0821	100	0.5745	0.5776	0.6262	0.9496	0.9888	1.0151
#> x8~~x8	0.4877	0.0764	100	0.3015	0.3035	0.3411	0.6317	0.6466	0.6513
#> x9~~x9	0.5661	0.0675	100	0.3764	0.3871	0.4181	0.6656	0.6991	0.7065
#> visual~~visual	0.8093	0.1401	100	0.4536	0.4554	0.5189	0.9988	1.0407	1.0618
#> textual~~textual	0.9795	0.0967	100	0.7772	0.7781	0.8128	1.2006	1.2371	1.2490
#> speed~~speed	0.3837	0.0905	100	0.1434	0.1802	0.2260	0.5495	0.6007	0.6021
#> visual~~textual	0.4082	0.0692	100	0.2111	0.2224	0.2657	0.5312	0.5931	0.6085
#> visual~~speed	0.2622	0.0582	100	0.0797	0.0986	0.1586	0.3844	0.4204	0.4329
#> textual~~speed	0.1735	0.0515	100	0.0486	0.0545	0.0804	0.2707	0.3250	0.3428

```
#> 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	0.1034	100	0.2848	0.3177	0.3661	0.7722	0.8358	0.8691
#> visual=~x3	0.7294	0.1243	100	0.3888	0.4237	0.4952	0.9635	0.9906	0.9937
#> textual=~x4	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> textual=~x5	1.1131	0.0637	100	0.9490	0.9596	0.9892	1.2298	1.2525	1.2538
#> textual=~x6	0.9261	0.0582	100	0.7825	0.7920	0.8156	1.0269	1.0458	1.0568
#> speed=~x7	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> speed=~x8	1.1800	0.1790	100	0.5521	0.6582	0.8095	1.4798	1.5591	1.6098
#> speed=~x9	1.0815	0.1408	100	0.7237	0.7669	0.8453	1.3499	1.3802	1.4023
#> x1~~x1	0.5491	0.1141	100	0.2339	0.2775	0.3408	0.8138	0.8539	0.8870
#> x2~~x2	1.1338	0.1108	100	0.8568	0.8632	0.9240	1.3122	1.3776	1.4061
#> x3~~x3	0.8443	0.0989	100	0.6247	0.6307	0.6643	1.0325	1.0595	1.0780
#> x4~~x4	0.3712	0.0485	100	0.2654	0.2666	0.2712	0.4680	0.4852	0.4905
#> x5~~x5	0.4463	0.0508	100	0.3344	0.3382	0.3551	0.5465	0.5847	0.6115
#> x6~~x6	0.3562	0.0425	100	0.2686	0.2690	0.2731	0.4492	0.4580	0.4612
#> x7~~x7	0.7994	0.0825	100	0.6206	0.6258	0.6386	0.9510	0.9729	0.9754

```

#> x8~~x8          0.4877 0.0770 100 0.3237 0.3327 0.3624 0.6327 0.6752 0.6755
#> x9~~x9          0.5661 0.0688 100 0.3701 0.3796 0.4317 0.6742 0.7086 0.7179
#> visual~~visual  0.8093 0.1516 100 0.3785 0.4050 0.4447 1.0596 1.1210 1.1701
#> textual~~textual 0.9795 0.1156 100 0.6339 0.6692 0.7677 1.1880 1.2440 1.2732
#> speed~~speed    0.3837 0.0803 100 0.2004 0.2087 0.2360 0.5439 0.6014 0.6236
#> visual~~textual  0.4082 0.0666 100 0.2259 0.2422 0.2658 0.5229 0.5576 0.5700
#> visual~~speed    0.2622 0.0575 100 0.1088 0.1163 0.1614 0.3786 0.3856 0.3890
#> textual~~speed   0.1735 0.0517 100 0.0072 0.0262 0.0744 0.2527 0.2907 0.2955
#> Standardized Monte Carlo Confidence Intervals
#>               est      se    R 0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0548 100 0.6319 0.6392 0.6499 0.8398 0.8612 0.8727
#> visual=~x2      0.4236 0.0594 100 0.2772 0.2870 0.3123 0.5464 0.5895 0.6084
#> visual=~x3      0.5811 0.0616 100 0.3690 0.3976 0.4456 0.6888 0.7179 0.7306
#> textual=~x4     0.8516 0.0246 100 0.7861 0.7909 0.8007 0.8967 0.9003 0.9024
#> textual=~x5     0.8551 0.0221 100 0.7814 0.7925 0.8087 0.8934 0.9045 0.9099
#> textual=~x6     0.8380 0.0221 100 0.7878 0.7896 0.7956 0.8788 0.8923 0.9014
#> speed=~x7       0.5695 0.0564 100 0.4084 0.4292 0.4614 0.6693 0.6888 0.6956
#> speed=~x8       0.7230 0.0492 100 0.5769 0.5805 0.6196 0.8005 0.8306 0.8483
#> speed=~x9       0.6650 0.0556 100 0.5054 0.5162 0.5551 0.7700 0.7875 0.8004
#> x1~~x1          0.4042 0.0825 100 0.2383 0.2581 0.2947 0.5776 0.5914 0.6007
#> x2~~x2          0.8206 0.0516 100 0.6298 0.6520 0.7014 0.9024 0.9175 0.9232
#> x3~~x3          0.6623 0.0696 100 0.4663 0.4845 0.5256 0.8014 0.8409 0.8637
#> x4~~x4          0.2748 0.0418 100 0.1856 0.1895 0.1959 0.3589 0.3744 0.3820
#> x5~~x5          0.2689 0.0376 100 0.1721 0.1818 0.2018 0.3459 0.3718 0.3893
#> x6~~x6          0.2977 0.0370 100 0.1875 0.2037 0.2277 0.3670 0.3765 0.3793
#> x7~~x7          0.6757 0.0632 100 0.5162 0.5255 0.5520 0.7871 0.8152 0.8331
#> x8~~x8          0.4772 0.0702 100 0.2804 0.3097 0.3593 0.6160 0.6630 0.6671
#> x9~~x9          0.5578 0.0733 100 0.3594 0.3796 0.4071 0.6916 0.7334 0.7446
#> visual~~visual  1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> textual~~textual 1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> speed~~speed    1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> visual~~textual  0.4585 0.0607 100 0.2877 0.3063 0.3333 0.5652 0.6111 0.6242
#> visual~~speed    0.4705 0.0717 100 0.2595 0.2926 0.3489 0.6090 0.6352 0.6551
#> textual~~speed   0.2830 0.0736 100 0.0952 0.1050 0.1234 0.4516 0.4815 0.4876
#> Standardized Monte Carlo Confidence Intervals
#>               est      se    R 0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0594 100 0.5917 0.5998 0.6125 0.8552 0.8929 0.9126
#> visual=~x2      0.4236 0.0622 100 0.2674 0.2718 0.2892 0.5339 0.5495 0.5506
#> visual=~x3      0.5811 0.0670 100 0.3661 0.3894 0.4191 0.6828 0.7062 0.7083
#> textual=~x4     0.8516 0.0235 100 0.7842 0.7898 0.7973 0.8850 0.8952 0.8996
#> textual=~x5     0.8551 0.0206 100 0.8020 0.8057 0.8154 0.8944 0.8978 0.9005
#> textual=~x6     0.8380 0.0242 100 0.7649 0.7703 0.7857 0.8760 0.8840 0.8850
#> speed=~x7       0.5695 0.0509 100 0.4371 0.4375 0.4567 0.6713 0.6969 0.7076
#> speed=~x8       0.7230 0.0600 100 0.4792 0.5144 0.5772 0.8030 0.8142 0.8193
#> speed=~x9       0.6650 0.0496 100 0.5584 0.5604 0.5665 0.7606 0.7780 0.7868
#> x1~~x1          0.4042 0.0879 100 0.1670 0.2022 0.2686 0.6248 0.6401 0.6499

```

```

#> x2~~x2          0.8206 0.0518 100 0.6968 0.6981 0.7149 0.9163 0.9261 0.9285
#> x3~~x3          0.6623 0.0750 100 0.4983 0.5013 0.5338 0.8244 0.8477 0.8659
#> x4~~x4          0.2748 0.0396 100 0.1908 0.1986 0.2168 0.3642 0.3762 0.3850
#> x5~~x5          0.2689 0.0353 100 0.1891 0.1939 0.2001 0.3351 0.3509 0.3568
#> x6~~x6          0.2977 0.0402 100 0.2168 0.2185 0.2327 0.3826 0.4067 0.4150
#> x7~~x7          0.6757 0.0575 100 0.4992 0.5142 0.5493 0.7913 0.8086 0.8090
#> x8~~x8          0.4772 0.0825 100 0.3288 0.3371 0.3552 0.6667 0.7338 0.7701
#> x9~~x9          0.5578 0.0660 100 0.3809 0.3946 0.4214 0.6791 0.6859 0.6882
#> 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 0.0686 100 0.2822 0.2982 0.3417 0.6046 0.6279 0.6317
#> visual~~speed    0.4705 0.0862 100 0.2635 0.2871 0.3150 0.6327 0.7343 0.7356
#> textual~~speed   0.2830 0.0804 100 0.0143 0.0439 0.1265 0.4323 0.4603 0.4712
#> 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

#> [[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  0.4231 20000      3.8564      4.1337      4.3988
#> alien67=~anomia67      1.0000  0.0000 20000      1.0000      1.0000      1.0000
#> alien67=~powerless67      0.9787  0.0619 20000      0.7824      0.8217      0.8590
#> alien71=~anomia71      1.0000  0.0000 20000      1.0000      1.0000      1.0000
#> alien71=~powerless71      0.9221  0.0598 20000      0.7309      0.7710      0.8046
#> alien71~alien67      0.6070  0.0508 20000      0.4382      0.4708      0.5062
#> alien71~ses      -0.2268  0.0523 20000     -0.3920     -0.3607     -0.3295
#> alien67~ses      -0.5750  0.0563 20000     -0.7599     -0.7223     -0.6856
#> anomia67~~anomia71      1.6229  0.3151 20000      0.6017      0.8266      1.0093
#> powerless67~~powerless71      0.3387  0.2621 20000     -0.5538     -0.3347     -0.1822
#> education~~education      2.8013  0.5056 20000      1.1857      1.5229      1.8109
#> sei~~sei      264.5971 18.2660 20000    204.7500    217.8910    228.6739
#> anomia67~~anomia67      4.7307  0.4556 20000      3.2663      3.5667      3.8382
#> powerless67~~powerless67      2.5634  0.4038 20000      1.2439      1.5117      1.7665
#> anomia71~~anomia71      4.3992  0.5183 20000      2.7290      3.0881      3.3966
#> powerless71~~powerless71      3.0699  0.4366 20000      1.6260      1.9447      2.2244
#> ses~~ses      6.7983  0.6464 20000      4.7312      5.1152      5.5269
#> alien67~~alien67      4.8415  0.4663 20000      3.3137      3.6526      3.9274

```

```

#> alien71~~alien71      4.0832  0.4039 20000   2.7546   3.0389   3.2862
#>                      97.5%   99.5%  99.95%
#> ses=~education      1.0000   1.0000   1.0000
#> ses=~sei            6.0607   6.3247   6.6606
#> alien67=~anomia67    1.0000   1.0000   1.0000
#> alien67=~powerless67 1.1016   1.1391   1.1907
#> alien71=~anomia71    1.0000   1.0000   1.0000
#> alien71=~powerless71 1.0397   1.0794   1.1236
#> alien71~alien67      0.7051   0.7344   0.7759
#> alien71~ses         -0.1233  -0.0905  -0.0545
#> alien67~ses         -0.4648  -0.4320  -0.4002
#> anomia67~~anomia71   2.2423   2.4405   2.6551
#> powerless67~~powerless71 0.8409   1.0070   1.1923
#> education~~education 3.7998   4.1020   4.5343
#> sei~~sei            300.1412 311.8073 323.4907
#> anomia67~~anomia67   5.6268   5.9093   6.2769
#> powerless67~~powerless67 3.3470   3.6063   3.8540
#> anomia71~~anomia71   5.4215   5.7447   6.1556
#> powerless71~~powerless71 3.9307   4.1965   4.4544
#> ses~~ses            8.0509   8.4790   9.0009
#> alien67~~alien67     5.7524   6.0259   6.3139
#> alien71~~alien71     4.8758   5.1437   5.4091
#>
#>
#> [[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]][[16]]$visible
#> [1] TRUE
#>
#>

```



```

#> [[1]][[19]]$value
#> [[1]][[19]]$value[[1]]
#> [[1]][[19]]$value[[1]]$thetahatstar
#>           y1           y2           y3
#> [1,] -0.6244996970 -1.4153342002 -1.564189609
#> [2,] -1.5094558168 -2.2072418029 -3.107187404
#> [3,] -0.5106057961  0.1442702867 -0.556651044
#> [4,] -1.2707832498 -2.2387643975 -2.827061301
#> [5,] -2.9737971561 -4.3900491480 -6.144557874
#> [6,]  2.1260217037  3.6142232860  4.656848305
#> [7,] -0.8987389617 -1.6079215601 -2.013038300
#> [8,] -0.1589764502  0.1473423134 -0.116471576
#> [9,]  0.7815133776 -0.1058084152  0.915812001
#> [10,] 0.2141691748 -0.5717220942 -0.050217233
#> [11,] -0.2929660785  0.1230795681 -0.297018717
#> [12,]  2.2674506051  2.9326658973  4.454971445
#> [13,] -2.6428875227 -3.7691973493 -5.387373556
#> [14,]  0.4118154351  2.0964031879  1.676941445
#> [15,] -0.3974335740 -2.5008851830 -1.883478130
#> [16,]  0.2119411482  0.1570529876  0.351444122
#> [17,] -0.7753108503 -1.7664420975 -1.947098224
#> [18,] -1.2633493277 -2.5309469507 -2.979940436
#> [19,] -0.3259398477 -0.7212044292 -0.806678605
#> [20,] -0.1668857823 -0.8298812277 -0.668652503
#> [21,]  1.9634588554  2.0903426128  3.608445777
#> [22,] -1.2985024829 -3.0719274822 -3.323997249
#> [23,] -1.2513208447 -2.8741841664 -3.155423447
#> [24,]  0.2003686586 -0.5247769914 -0.041373628
#> [25,]  1.9981508416  3.9755610704  4.697923290
#> [26,]  0.3380742448  0.9305290661  0.937976360
#> [27,]  0.0649681763 -0.8063394556 -0.366470647
#> [28,] -1.6113558180 -2.8887439961 -3.612459812
#> [29,]  0.6819049190  1.2964634544  1.569804463
#> [30,]  0.5521483012  0.8018813359  1.133528238
#> [31,] -0.8804656059 -1.6431615839 -2.009808536
#> [32,] -0.2764529957 -0.9189342399 -0.854701276
#> [33,]  0.9903882049  2.1683080530  2.438314078
#> [34,] -0.8612601131 -2.6844377567 -2.563724358
#> [35,]  2.7411041518  4.5535380183  5.945123922
#> [36,]  0.2794838006  0.3172642473  0.524578973
#> [37,]  0.4227561406  1.8772037501  1.568937771
#> [38,] -0.2803451854  0.6031896068 -0.014839751
#> [39,]  1.3812208105  1.0679065285  2.314997591
#> [40,] -1.0526629236 -0.5218879206 -1.602275141
#> [41,]  0.8503633884  1.4992326141  1.892397132

```

```

#> [42,] 0.1864625145 1.6489703514 1.147624458
#> [43,] -1.5688630091 -3.1302510966 -3.693498475
#> [44,] -0.8924160917 -1.8979269310 -2.166094649
#> [45,] 1.0432796742 2.8259882918 2.869253658
#> [46,] -1.8929780135 -2.3627033017 -3.671706384
#> [47,] -1.5498997087 -1.7152867993 -2.884605683
#> [48,] 0.7776380340 0.1748499628 1.066733176
#> [49,] -1.4709154363 -3.1800027069 -3.598969910
#> [50,] -0.4245308140 0.0342600734 -0.510368360
#> [51,] 0.0316677473 0.8401174618 0.505719052
#> [52,] -0.8750993309 -1.4485457060 -1.895113236
#> [53,] 1.7368885531 4.1815874227 4.486470545
#> [54,] -1.7356587487 -2.7936417531 -3.714685268
#> [55,] 0.9648599203 1.5802785662 2.080149082
#> [56,] -0.3062471786 -1.5380612099 -1.235443561
#> [57,] 1.0677962413 3.1165492189 3.061074467
#> [58,] 2.2091725372 4.1661949391 5.066856856
#> [59,] -0.0547055199 -0.9350684183 -0.587140490
#> [60,] -1.3252933213 -1.7854242186 -2.643449430
#> [61,] 0.1149980696 0.1906006453 0.249175625
#> [62,] -0.9047640369 -1.8459571832 -2.152651251
#> [63,] 1.6276358590 2.8133876004 3.590941046
#> [64,] -1.2019444789 -1.7532089734 -2.471757827
#> [65,] 0.1205434181 0.0128194079 0.157429418
#> [66,] 1.0225401359 1.2432361873 1.965030726
#> [67,] 0.5061995060 1.4224224318 1.420605355
#> [68,] 0.2447285776 0.4012552273 0.527851396
#> [69,] 1.7389720784 2.5710384155 3.595281390
#> [70,] -0.1903593041 -1.0661749727 -0.829056641
#> [71,] 0.5327388357 1.8514000275 1.691763963
#> [72,] -0.0025827464 -0.6240272890 -0.349529651
#> [73,] -0.0901861824 1.0471278526 0.468651787
#> [74,] 0.7093477517 0.9631485936 1.419049323
#> [75,] -0.1164282751 0.9827069085 0.400177506
#> [76,] -0.0418444471 0.2042445936 0.061168026
#> [77,] -0.0646650141 -0.1685533985 -0.174176033
#> [78,] -0.7775288317 -2.9776062875 -2.622009418
#> [79,] 1.6190328698 2.8473557106 3.599064173
#> [80,] -0.0291629532 0.2250853304 0.088547327
#> [81,] -1.2588774036 -2.6278981104 -3.028167872
#> [82,] 1.8174287793 2.4184501389 3.608435191
#> [83,] -0.0510841124 0.5302868542 0.230586156
#> [84,] 0.8956907525 0.9545455977 1.646640942
#> [85,] -0.8940723606 -1.1330742931 -1.743698791
#> [86,] 0.6248644902 1.1173760066 1.399290176

```

```

#> [87,] -0.1629555316 -1.1555622078 -0.844490868
#> [88,] -0.4178426670 -0.7035702395 -0.911493309
#> [89,] -0.3185603807 0.3112966518 -0.224481689
#> [90,] 2.1176897651 3.3773556873 4.515006948
#> [91,] -1.6268843040 -2.6398104076 -3.493675797
#> [92,] -0.8494808298 -2.1088026718 -2.229582460
#> [93,] -2.2095854739 -3.6991768681 -4.808196304
#> [94,] -3.3912962525 -6.2064317580 -7.673187032
#> [95,] 0.2590633241 0.3187927664 0.499963319
#> [96,] -1.7505807349 -2.2346418277 -3.423071126
#> [97,] -1.0235234195 -1.8307459464 -2.292300179
#> [98,] -0.6104339037 -0.8970756016 -1.259038028
#> [99,] 1.4349113128 2.8913988602 3.393910451
#> [100,] 0.8251276035 0.5469006238 1.332424241
#> [101,] -0.8357074936 -1.9452761388 -2.121657012
#> [102,] -0.9595046914 -0.4789373699 -1.462272968
#> [103,] 0.9160762308 1.1170968816 1.762270374
#> [104,] -0.8416124273 -2.1761389603 -2.257139544
#> [105,] -1.0156688620 -2.3546783920 -2.573266277
#> [106,] 0.5231187601 0.6331406758 1.003684991
#> [107,] 1.7926432578 2.3026552391 3.513266830
#> [108,] -2.6625788762 -3.9540477269 -5.514512493
#> [109,] -0.4757981138 -0.8605898016 -1.070901852
#> [110,] -0.2792591783 -1.2186435966 -1.024526674
#> [111,] -2.2136077291 -4.0653578385 -5.016427081
#> [112,] -0.6264278089 -1.0556147022 -1.366964664
#> [113,] 0.7519474286 0.8191084870 1.392234022
#> [114,] -0.3585521043 -1.5320873861 -1.297351515
#> [115,] -1.2540294862 -2.3909781875 -2.890641981
#> [116,] 0.9089573024 0.9223924376 1.645340401
#> [117,] -0.6073817832 -0.6740407539 -1.131457093
#> [118,] -2.3327761428 -4.0735540669 -5.169576226
#> [119,] -0.8610348628 -0.9111539209 -1.579345190
#> [120,] 0.5145669100 1.2028536868 1.309187877
#> [121,] 0.2874139117 0.0942603569 0.410709837
#> [122,] 1.5947976459 2.4269740362 3.335549114
#> [123,] 0.0353045690 -0.0199930109 0.032928793
#> [124,] 0.6861651721 1.5027803359 1.689614142
#> [125,] 1.0082502059 0.7903603063 1.695884321
#> [126,] -0.5947332436 -0.1919918896 -0.848167685
#> [127,] -0.1868671751 -0.3573294564 -0.431322444
#> [128,] 0.7694005216 1.6844693092 1.894236699
#> [129,] 2.9980265397 4.7973555970 6.400809448
#> [130,] 1.9189837075 3.1951631056 4.166115292
#> [131,] 2.6940374793 3.9972139042 5.577696150

```

```

#> [132,] 1.6634767295 2.3130727965 3.357980112
#> [133,] -0.2029460586 0.2576040062 -0.110110158
#> [134,] 1.6815422849 1.8290739178 3.111908377
#> [135,] -1.0038791479 -1.3390161288 -1.994914712
#> [136,] 0.0312429177 -0.2604768909 -0.105594488
#> [137,] 0.0735992557 -0.0452272835 0.066677522
#> [138,] 1.5988169571 3.2542522607 3.799665892
#> [139,] 1.2625782576 2.2784659596 2.838862548
#> [140,] -2.1858920627 -3.8745244054 -4.875961645
#> [141,] 1.6567622135 1.6708030915 2.993174451
#> [142,] 1.7340390828 3.4745228493 4.090526079
#> [143,] -0.0608466994 -0.1779649642 -0.174637697
#> [144,] 0.3145387460 -0.1682925959 0.298828056
#> [145,] 1.7184177290 3.5001198193 4.085251816
#> [146,] 0.4495284912 1.0744580721 1.156832105
#> [147,] 0.2127707693 0.7852228895 0.701086638
#> [148,] -1.0329154011 -1.6884150569 -2.225024104
#> [149,] 0.2184506134 0.1232359880 0.340794273
#> [150,] 1.5537617373 2.1632003835 3.137994840
#> [151,] -0.9124194404 -1.6977139885 -2.079928616
#> [152,] 1.6127368437 3.9379350823 4.196439048
#> [153,] 0.5553861301 1.2389252293 1.380106807
#> [154,] -0.3736924428 0.1291277069 -0.394326383
#> [155,] -1.5230615886 -2.1039913851 -3.066853865
#> [156,] 0.8620545724 1.1803178165 1.729991440
#> [157,] 0.0959480839 1.2616136258 0.819788045
#> [158,] -1.0929554839 -2.1251298097 -2.542251266
#> [159,] 1.6338549301 2.0018482710 3.148325750
#> [160,] 1.5528124049 2.9524675928 3.574821298
#> [161,] -0.3686688801 -0.6260118044 -0.807132916
#> [162,] 0.9187258578 0.7776925062 1.577219187
#> [163,] -0.1728853808 0.0017812328 -0.214596034
#> [164,] -0.4308823566 -0.6950194459 -0.923008204
#> [165,] 0.3056907103 0.4039319393 0.605355395
#> [166,] -2.2796802810 -3.5808876699 -4.829957546
#> [167,] 0.4798759161 1.0312731159 1.170708882
#> [168,] 0.5044224728 0.6092508021 0.967113222
#> [169,] -0.4055840871 -0.3434867203 -0.696375833
#> [170,] -1.2902086458 -2.4498623940 -2.968434924
#> [171,] 0.6476358280 -0.3440142255 0.616675176
#> [172,] 0.9688869204 3.2506268680 3.012144043
#> [173,] 1.7859109780 3.6413036327 4.247765626
#> [174,] -0.4571946247 -3.5390916150 -2.534160044
#> [175,] 0.5826606889 0.4452702420 0.973672337
#> [176,] -1.7751349429 -3.3975448534 -4.099052213

```

```

#> [177,] 0.5182205710 0.9662117550 1.182417553
#> [178,] -0.9211360473 -1.7909665646 -2.142549323
#> [179,] 0.3066561561 1.2141339677 1.056187491
#> [180,] 0.2411240133 -0.4595730044 0.045632950
#> [181,] -0.7783759856 -0.3148935137 -1.145371694
#> [182,] 0.1991639258 0.6484877006 0.608236876
#> [183,] -0.6159630170 -1.5651847757 -1.636705338
#> [184,] 0.3801838581 1.0181752042 1.039126126
#> [185,] 0.0970070992 -1.5924781235 -0.762792811
#> [186,] -0.9647421575 -2.5048501238 -2.593100739
#> [187,] 0.5197336510 1.9372900403 1.723212124
#> [188,] -0.1106435399 0.7589284700 0.283203289
#> [189,] 0.9563912585 0.4506302659 1.442681323
#> [190,] -0.5317063250 -0.2174728829 -0.783715287
#> [191,] -0.6189721647 -0.9833842206 -1.317582735
#> [192,] -0.3853304391 -1.4533255634 -1.287034038
#> [193,] -0.1342901122 -0.9750538520 -0.708571095
#> [194,] 1.3062446076 1.8842330431 2.674530833
#> [195,] 0.9807174516 2.6085933371 2.670594745
#> [196,] -2.5815060124 -4.1128281654 -5.501532781
#> [197,] 0.5969624858 -0.4146556897 0.514283497
#> [198,] 1.7773435599 3.0754663717 3.923066241
#> [199,] 0.4171116204 -0.2783691072 0.365646483
#> [200,] 0.3851324521 0.5188305145 0.768181526
#> [201,] -1.2521015711 -2.7643091346 -3.095420955
#> [202,] -0.5965716869 -0.0373495944 -0.764640187
#> [203,] -1.2899339846 -1.8325624681 -2.625516813
#> [204,] -1.4337364082 -2.1069862194 -2.957129195
#> [205,] -0.6742784889 -0.6702307441 -1.212761525
#> [206,] 0.2289193756 1.2069868550 0.955284963
#> [207,] -0.9403003691 -1.2127044156 -1.845535559
#> [208,] 1.0803245161 0.5511879130 1.653028852
#> [209,] 0.7314172431 0.7691075816 1.338884891
#> [210,] -1.3172881633 -2.2726662858 -2.903866109
#> [211,] 0.9001494153 2.0262760231 2.246966318
#> [212,] -0.8691219397 -1.2061970750 -1.753166208
#> [213,] -0.7618001092 -0.0805537914 -0.994653180
#> [214,] -1.8162794930 -3.3041006032 -4.098500981
#> [215,] 1.1489036637 1.7470375586 2.402192135
#> [216,] -0.0825166325 0.0865546246 -0.054862365
#> [217,] 0.3304296873 1.5506600500 1.272590485
#> [218,] -0.2656796038 -0.4037944602 -0.555386066
#> [219,] 0.4980772916 1.3659426111 1.379133184
#> [220,] 2.0382770137 3.5319081449 4.501751010
#> [221,] -0.1052473684 0.4555542469 0.121572212

```

```

#> [222,] 1.1363059441 2.1356780101 2.602162215
#> [223,] -0.7395463879 -0.6651569943 -1.291333545
#> [224,] 0.1114968847 0.0126044717 0.146029295
#> [225,] 0.4304163213 0.8041468571 0.982988212
#> [226,] -2.3225899256 -5.0891342457 -5.720478700
#> [227,] 0.1402955212 -0.4042582973 -0.049400776
#> [228,] 0.9104239138 2.3056154669 2.414800104
#> [229,] -1.6615549786 -1.8827976361 -3.116799028
#> [230,] -0.7145174478 -1.5472479638 -1.749646524
#> [231,] 0.3273453961 0.5266451878 0.700459062
#> [232,] 1.1993536153 2.0840817660 2.652147620
#> [233,] -0.5617015592 -2.0049349129 -1.813085322
#> [234,] -1.3477272746 -1.8659317214 -2.716102405
#> [235,] -0.4988414153 -1.8847700230 -1.668013522
#> [236,] 0.5632426494 0.6086544282 1.040129820
#> [237,] -0.7363691106 -2.5974217026 -2.359697558
#> [238,] -1.0420444725 -2.1426213536 -2.488473347
#> [239,] -0.9329203537 -0.5646090861 -1.476667057
#> [240,] 0.9526492337 1.4355775851 1.984619619
#> [241,] -0.1020420408 0.0286451824 -0.111347467
#> [242,] 2.4545469107 4.6622044268 5.648098194
#> [243,] -1.0141141261 -2.6651341508 -2.743617501
#> [244,] -0.0958531878 -0.5422549520 -0.420455765
#> [245,] 1.9294784734 2.8516844179 3.988585760
#> [246,] -0.9502751677 -1.1139415683 -1.803164684
#> [247,] -0.1678345655 -1.0509759758 -0.792533944
#> [248,] -0.8131374835 0.1350440723 -0.939022051
#> [249,] 0.7131455606 0.8519403768 1.362069209
#> [250,] 0.9640168135 1.9328120598 2.274739074
#> [251,] 0.0038855697 1.8006420815 1.004126192
#> [252,] -0.8831733489 -0.0674845629 -1.138750260
#> [253,] 0.5052486277 0.6650020229 0.999083014
#> [254,] -0.6287322337 -0.4100322899 -1.011567025
#> [255,] 1.5499343283 2.0824990551 3.088436280
#> [256,] -1.2685565282 -2.2502914110 -2.830681635
#> [257,] 0.9770745530 1.7276489107 2.177164851
#> [258,] -0.7278908147 -1.8774796191 -1.949587582
#> [259,] -1.0014250639 -1.7715382602 -2.231886193
#> [260,] -2.3984062867 -4.4441237807 -5.457066353
#> [261,] -0.2488809336 -0.1501279143 -0.393664155
#> [262,] 0.6265468838 1.7000795900 1.724764179
#> [263,] -0.4125430931 0.3085010389 -0.343227662
#> [264,] -2.0748052620 -4.1132492992 -4.869920991
#> [265,] 1.7697675110 1.2206237432 2.884259062
#> [266,] 1.0041536888 1.0240512758 1.820464752

```



```

#> [267,] 0.8511709461 1.7768303767 2.047459276
#> [268,] 0.2860420332 0.7694138797 0.783681071
#> [269,] -0.1650595604 0.6465273414 0.152969701
#> [270,] 0.3991536778 1.3950241684 1.271916502
#> [271,] 1.1768067573 0.9993971410 2.022077594
#> [272,] -0.3158330673 -1.3579651917 -1.147451219
#> [273,] 0.5599992380 0.9866922735 1.245880529
#> [274,] -1.6558339680 -1.4846412010 -2.888704893
#> [275,] 0.0275033222 -0.4859162411 -0.235367088
#> [276,] -0.3823650538 -0.4322185953 -0.716664648
#> [277,] 1.2332874285 2.0919740196 2.698842263
#> [278,] 0.1955868947 1.1975155644 0.908463869
#> [279,] -0.3454486469 0.1969022270 -0.321494925
#> [280,] 0.3685219379 0.5429397840 0.760848189
#> [281,] 0.3424163183 0.6540599729 0.789962066
#> [282,] 0.1036484528 -0.0044189871 0.126795154
#> [283,] -1.2934821816 -1.4415774804 -2.412961044
#> [284,] -0.4827550000 -0.5995063763 -0.934686577
#> [285,] 0.5350296582 1.7378314496 1.631594766
#> [286,] 0.3341213534 0.4906366703 0.688925323
#> [287,] 0.3357101921 0.0620403329 0.453053550
#> [288,] 1.5292637256 3.7914667513 4.011065981
#> [289,] -1.1155104340 -1.5856729971 -2.271000884
#> [290,] 0.0200629459 -0.7460956299 -0.389033753
#> [291,] 2.6336257724 4.3560441508 5.701499747
#> [292,] 1.8290835612 4.4640390485 4.758184666
#> [293,] 0.6642332042 2.5277221025 2.231065194
#> [294,] -0.3013691649 -1.0602171041 -0.964177305
#> [295,] 0.2867486994 0.7422550250 0.769490242
#> [296,] -0.5591384668 -0.8917869881 -1.192138705
#> [297,] -0.6571590163 -0.8264322066 -1.278099163
#> [298,] -0.5648637632 -1.5741875489 -1.577981773
#> [299,] -0.6532844833 -0.3255274583 -0.995286536
#> [300,] -0.4261499930 -1.1349568298 -1.161253872
#> [301,] 1.1243690870 1.0141820522 1.964893896
#> [302,] -1.8972458209 -1.7341347718 -3.328199036
#> [303,] -2.2506627615 -4.1662188531 -5.118607591
#> [304,] 1.7141613490 1.8543278182 3.166598542
#> [305,] 1.1057644475 2.0183046182 2.498940273
#> [306,] 0.7144053587 1.7783828172 1.877776917
#> [307,] 0.2246714716 0.8855487376 0.771603216
#> [308,] -0.9531468496 -2.3063767109 -2.468497192
#> [309,] -0.7433666879 0.3039716268 -0.758271572
#> [310,] 0.2081467665 0.4109979129 0.487641406
#> [311,] 0.5003949941 1.4031666799 1.402681111

```

```

#> [312,] -1.5250710941 -1.6386789571 -2.811130762
#> [313,] -0.2343644687 0.0170000496 -0.282813396
#> [314,] 0.1266845308 0.0167577621 0.167272882
#> [315,] 1.4651595397 1.4624152587 2.638603302
#> [316,] 1.6244555905 2.8696736533 3.618211719
#> [317,] 0.5661826500 1.3160640860 1.436378683
#> [318,] -0.4806140634 -1.3093884656 -1.325971711
#> [319,] -1.0847161434 -1.8533694945 -2.381161379
#> [320,] 0.7657180684 0.9023921225 1.455624660
#> [321,] 0.2524844347 0.9560078063 0.845387247
#> [322,] 0.5602701161 1.7543620016 1.672242867
#> [323,] -0.6247962933 -0.6089580601 -1.117054462
#> [324,] -2.7980088411 -4.2542208987 -5.849974439
#> [325,] 0.4937534010 1.0294645747 1.187010158
#> [326,] 0.7462725797 0.8019672404 1.375644927
#> [327,] -0.2408415040 -0.3617186162 -0.501063131
#> [328,] 0.1429638446 0.6396960798 0.533277540
#> [329,] 0.3236607013 1.2176384874 1.079336674
#> [330,] 0.9162147126 0.8688591607 1.624681516
#> [331,] 1.2018061979 2.5558092220 2.916994928
#> [332,] 0.1552519881 -0.2653872979 0.046317223
#> [333,] -1.0318006402 -1.6048468964 -2.177257189
#> [334,] -0.7571259219 -0.4782866647 -1.209549656
#> [335,] 0.1077309054 0.5198560643 0.422836592
#> [336,] -0.0434236531 -0.7142323580 -0.450517465
#> [337,] 1.2386156477 1.3782688164 2.309409937
#> [338,] 0.2709095496 0.7150873260 0.734662210
#> [339,] 1.7793889276 2.8030660767 3.774446014
#> [340,] 0.0524409065 1.3214099688 0.798719949
#> [341,] 1.0151009427 1.3680716472 2.025032657
#> [342,] -0.6721469060 -1.9454390925 -1.917790727
#> [343,] 1.4926559964 3.2471422472 3.663339579
#> [344,] -0.1497870827 -0.5519657465 -0.493099317
#> [345,] -0.1748842932 0.0569205976 -0.186488598
#> [346,] 0.1534260630 0.6890049781 0.573688087
#> [347,] 0.3838334159 -0.4283285627 0.240928022
#> [348,] -0.7067182464 -2.4910172252 -2.263673505
#> [349,] -0.8153572013 -1.1449370763 -1.652125941
#> [350,] -0.0173424685 -0.2237891310 -0.145819303
#> [351,] -0.3407189220 -0.9638663376 -0.959775009
#> [352,] 0.6190820634 0.4267113597 1.008789645
#> [353,] -0.1761683666 0.1946045209 -0.111680999
#> [354,] -2.3546414411 -3.5880262641 -4.927394205
#> [355,] -0.0114801587 -0.5380866575 -0.312931090
#> [356,] -0.3765417817 -1.0791997860 -1.068450619

```

```

#> [357,] 1.5788587829 2.4026705953 3.302186285
#> [358,] 0.7350606157 1.7894820743 1.909693225
#> [359,] -0.1643757556 -0.3103415043 -0.377199756
#> [360,] 2.6475250992 4.5933667403 5.850536025
#> [361,] -1.2673495667 -2.8020145408 -3.135359816
#> [362,] 1.0473081598 1.9190394272 2.370958450
#> [363,] -0.1436476323 0.3112542456 -0.006392593
#> [364,] 0.1890514829 0.4854548758 0.505150474
#> [365,] -0.0807861883 -0.0407837246 -0.123371989
#> [366,] -0.7079857087 -0.8999174814 -1.382260263
#> [367,] -1.9516572512 -3.8688008019 -4.580699252
#> [368,] 1.4335408321 2.2264138208 3.023162634
#> [369,] -0.1832839566 -0.8973479213 -0.726541882
#> [370,] 0.8169640401 2.1465976258 2.210009304
#> [371,] 0.6292413616 0.3732756838 0.991803520
#> [372,] -1.1947674678 -1.4003865761 -2.267006582
#> [373,] -1.0437084576 -1.4100743933 -2.084015410
#> [374,] 0.2530861346 0.5379691914 0.614143625
#> [375,] -2.9107098146 -4.9418515983 -6.372116503
#> [376,] 1.6822528053 3.0218757938 3.774749482
#> [377,] 0.6512745951 0.9236324816 1.324703493
#> [378,] -1.1320771859 -1.7922937294 -2.406325141
#> [379,] 0.6822536968 -0.1142401453 0.787357947
#> [380,] -0.5307392069 0.8945763624 -0.165368539
#> [381,] 0.1992693420 -1.0080410368 -0.310935766
#> [382,] 0.5067198479 0.5693597693 0.947840149
#> [383,] 0.4120238465 1.0460581455 1.094303807
#> [384,] 1.1894829575 1.7529143030 2.456055034
#> [385,] 0.0855268061 -0.1523952160 0.022077218
#> [386,] -1.1341720765 -1.4974337752 -2.245302497
#> [387,] -0.4797839217 -1.6706608431 -1.525427585
#> [388,] 0.4878068338 0.3948343653 0.827401714
#> [389,] 0.2172976131 0.5365922251 0.568751910
#> [390,] 0.7153518068 0.3117204271 1.065020899
#> [391,] -1.6828252109 -2.5347903983 -3.505151259
#> [392,] 0.1913716152 0.3544962685 0.435367088
#> [393,] -0.4520257619 -0.6921283707 -0.947769173
#> [394,] 0.8731921039 1.8454946920 2.113025031
#> [395,] -0.4341089468 -0.7546829016 -0.960142416
#> [396,] -0.1077785607 0.2251393691 -0.009454743
#> [397,] 0.8634220786 0.5842437333 1.400900532
#> [398,] 0.4528373652 1.4354760318 1.361308055
#> [399,] 1.6984211081 2.6393021450 3.582598669
#> [400,] 1.7401772842 4.1122233891 4.452077391
#> [401,] 0.4332295604 0.6142541888 0.881113783

```

```

#> [402,] -0.2239966270  0.6460323869  0.079201702
#> [403,]  0.3668888347  0.7010443001  0.846553129
#> [404,] -0.4364923588 -1.2816064267 -1.255534977
#> [405,]  0.1081401893  0.8667700141  0.615869678
#> [406,] -0.2551181020  0.4455953385 -0.070840313
#> [407,] -0.4976616215 -0.1632074086 -0.711147170
#> [408,] -0.0209201748  0.5615210146  0.285533622
#> [409,]  0.4223669518  0.2428237785  0.661440005
#> [410,]  1.3940903544  2.5902389296  3.175876396
#> [411,]  2.8584127080  5.6285782908  6.688007640
#> [412,]  0.8636169762  0.6754403589  1.451753875
#> [413,]  0.4622312213 -0.0841027147  0.529719420
#> [414,]  0.9861011167  1.5562304236  2.093290709
#> [415,] -0.0817377335  0.2304598218  0.025970266
#> [416,]  0.4230520076  0.9779496420  1.070258331
#> [417,]  0.6740743383  1.7478867499  1.810560917
#> [418,]  0.1432890965  0.6217914500  0.523746802
#> [419,]  1.9323044652  3.7413490256  4.485836323
#> [420,] -1.1318911510 -2.3471740911 -2.714028528
#> [421,] -0.5519150675 -0.0107188196 -0.694175328
#> [422,] -1.0199031752 -2.6998380298 -2.770095527
#> [423,] -0.0348699126  0.0132861893 -0.036108791
#> [424,]  0.7670831758  0.5940771307  1.286225009
#> [425,] -1.1429506931 -3.3210353338 -3.268271768
#> [426,] -1.8914296026 -3.1547665303 -4.109337477
#> [427,] -0.1084993024 -0.1455936850 -0.216094817
#> [428,] -1.1847695431 -2.2823289881 -2.743980487
#> [429,]  1.8962749351  1.9547056428  3.449395959
#> [430,]  0.5801563973  0.2571743175  0.866164173
#> [431,]  1.3135805876  3.6441102845  3.660336837
#> [432,] -0.5970981075 -0.4520939506 -0.995462376
#> [433,]  0.2291870552  0.1390549488  0.362961258
#> [434,] -2.9936975336 -5.3964202543 -6.727867068
#> [435,] -0.2405095996 -0.1634164948 -0.390599878
#> [436,] -1.0570539063 -0.9862593067 -1.865457284
#> [437,]  0.6446725651 -0.0360418216  0.783891838
#> [438,]  0.2573084586  1.8553531475  1.350501717
#> [439,]  0.3795756620  0.5352579478  0.770368860
#> [440,]  2.1244187542  3.9911889648  4.864049629
#> [441,] -0.4934831486 -0.4925343343 -0.888699355
#> [442,]  1.7441710356  2.4017088056  3.507793539
#> [443,] -0.4152990013 -2.4022443948 -1.851014446
#> [444,]  0.0015581421  0.8751166476  0.487596072
#> [445,]  0.5085552161 -0.4561523052  0.381012551
#> [446,] -1.5261987916 -2.2703543441 -3.163090370

```

```

#> [447,] 0.7804957005 1.5149092169 1.813973409
#> [448,] -0.6338127897 -0.7975771917 -1.232973570
#> [449,] -1.0086990592 -0.9149161157 -1.765567292
#> [450,] 0.7045818840 1.5993976185 1.766197953
#> [451,] -1.6375926415 -2.2227894117 -3.275599683
#> [452,] 0.7901979033 1.7408107753 1.951437764
#> [453,] -1.7550012805 -2.1083152454 -3.358477492
#> [454,] -0.1909579557 -0.3605436878 -0.438207327
#> [455,] -3.0869499750 -6.0786054297 -7.222735171
#> [456,] -0.5400382406 -0.7989742728 -1.116813941
#> [457,] 0.3855764087 1.0006636827 1.036132366
#> [458,] 0.1281504852 -0.6793735875 -0.217222856
#> [459,] 1.5560508006 2.3595092796 3.249792473
#> [460,] 0.8764447647 1.2764601348 1.801290677
#> [461,] -0.0342181542 -0.3986171823 -0.263885187
#> [462,] 0.4920721676 0.6647953829 0.982537560
#> [463,] 0.2158128798 -1.4313435079 -0.525221460
#> [464,] -1.9427782194 -3.7316382158 -4.493507788
#> [465,] 0.5080980463 1.0041839889 1.190867971
#> [466,] 1.1562195135 1.4966970751 2.272386364
#> [467,] -0.3077220108 -0.9232905960 -0.896110696
#> [468,] -1.3152816574 -1.8097500810 -2.644464924
#> [469,] -1.3296434998 -2.9897932949 -3.317248427
#> [470,] -1.3861297282 -2.4148327039 -3.068606546
#> [471,] -1.2821905286 -2.0971920587 -2.762719225
#> [472,] 1.1128161469 1.7553773744 2.361819987
#> [473,] -3.1315872299 -6.1809817053 -7.335211465
#> [474,] -2.1353065399 -3.4143886816 -4.557526468
#> [475,] 0.5671968836 1.7128735030 1.657856025
#> [476,] -1.9107780726 -3.1222986144 -4.115446291
#> [477,] 0.4957038434 0.9743074297 1.158832413
#> [478,] 1.7841680147 3.4005454408 4.111981470
#> [479,] 0.8548219635 2.0315173092 2.193352604
#> [480,] -0.3319079301 0.1316209884 -0.340838281
#> [481,] -0.0586419208 -0.5787898089 -0.394329390
#> [482,] 0.6197229196 0.0277027820 0.788155725
#> [483,] 1.0522521393 2.6450335005 2.780019806
#> [484,] 0.6909329529 1.2057109409 1.530698391
#> [485,] 0.4398419091 0.3366693372 0.735311276
#> [486,] 0.2851723790 0.1885944057 0.460266139
#> [487,] -0.1141577209 0.1506060131 -0.058772318
#> [488,] -0.5025650103 -1.4008064616 -1.404077255
#> [489,] 2.1529404019 3.5336488064 4.645699910
#> [490,] -0.5191422678 -1.2330658801 -1.331659757
#> [491,] 0.0756956566 -0.0903255079 0.044264065

```

```

#> [492,] 0.2325975763 1.6559972046 1.209053549
#> [493,] -0.8621526284 -1.3464915918 -1.822333202
#> [494,] 0.5026400077 1.6196178569 1.525601938
#> [495,] -0.1338125097 0.5016860330 0.111553273
#> [496,] -1.4774737279 -2.6464815327 -3.311066052
#> [497,] 0.8842654194 1.9549735217 2.187589396
#> [498,] -1.0175973817 -1.7471162170 -2.238499532
#> [499,] -0.5663902562 -1.9870073602 -1.808982990
#> [500,] 0.3960504929 0.1591973487 0.582214750
#> [501,] -0.0839116564 -0.5963327113 -0.435575812
#> [502,] 1.6625394711 2.3668141281 3.386635558
#> [503,] -0.0626455315 -0.6816409125 -0.456399868
#> [504,] 0.8335121906 1.5978480152 1.926111451
#> [505,] -2.7267875482 -3.4938169477 -5.339170583
#> [506,] 0.3328020375 1.3117474473 1.142962266
#> [507,] -1.2161312696 -2.3179288198 -2.802844337
#> [508,] -0.1351804396 -0.4465722893 -0.416396174
#> [509,] -1.2978748447 -2.2546722035 -2.869672134
#> [510,] -1.4217166525 -2.7451445858 -3.296291980
#> [511,] -1.8317497871 -2.5059363642 -3.674844387
#> [512,] -1.6898608543 -2.1042037532 -3.274967003
#> [513,] 1.8030658180 2.2997970453 3.524677372
#> [514,] -0.3863063017 -0.1939946173 -0.589374969
#> [515,] -0.4405819049 -1.6942351813 -1.489626241
#> [516,] 0.4443103996 0.6139881315 0.894783713
#> [517,] 0.0480208840 0.6012213290 0.393533729
#> [518,] 1.5625286855 3.3845809012 3.826742096
#> [519,] -0.8578197385 -2.2733077771 -2.331274355
#> [520,] 0.5004752747 -0.1784253943 0.525063836
#> [521,] 1.0887562235 2.0000185078 2.467583339
#> [522,] 0.0784538367 1.1960820695 0.761605805
#> [523,] 0.0663390963 0.1323641371 0.156180054
#> [524,] -0.7366721486 0.1890353390 -0.813708445
#> [525,] 1.2106218931 1.7525203711 2.482196240
#> [526,] -0.4781415898 0.0798770739 -0.551904378
#> [527,] 0.9707734153 1.3135972897 1.939526147
#> [528,] 1.3460430674 1.3778140872 2.443117383
#> [529,] 0.6352178583 -0.1141182847 0.728772843
#> [530,] -1.0572081281 -1.7049658114 -2.264501615
#> [531,] 0.4355265570 1.9507961768 1.625702936
#> [532,] 0.1952423237 0.8083541067 0.692065881
#> [533,] 0.3608101600 1.0137403155 1.012506342
#> [534,] -0.1454528157 -0.0099574123 -0.186902641
#> [535,] 0.6684321641 -0.1145363841 0.769958377
#> [536,] -0.8038706854 -2.3188772320 -2.289290126

```

```

#> [537,] -1.1068030383 -0.2673558475 -1.528532116
#> [538,] -1.7224659311 -2.4197100947 -3.490717679
#> [539,] 0.7365232303 0.6098549530 1.256873411
#> [540,] 0.1549928007 -0.1898365795 0.087921508
#> [541,] 0.9933986143 1.6136831416 2.134274392
#> [542,] 0.7245542042 0.4871706560 1.173863632
#> [543,] -0.6947623719 -1.2193228789 -1.543027654
#> [544,] -3.6844976792 -5.3614719576 -7.569885919
#> [545,] -1.3596846611 -2.9612129156 -3.338848228
#> [546,] 0.2658704679 -0.1609868209 0.242194105
#> [547,] -1.0847517856 -2.0538400807 -2.492458606
#> [548,] -3.1678240478 -6.8763776845 -7.766313691
#> [549,] -0.5447549705 -1.5510305227 -1.540055339
#> [550,] 0.7582067895 2.4551595044 2.307979134
#> [551,] -0.3957030863 -0.9805526508 -1.037599345
#> [552,] 1.4589683741 3.4104065355 3.711936646
#> [553,] -2.2735968343 -4.7555506568 -5.474260389
#> [554,] -0.6879541642 -1.1131013882 -1.475589478
#> [555,] 0.3861256537 1.2987924006 1.202266219
#> [556,] 2.1132292864 4.3976772475 5.075680569
#> [557,] -0.2689195304 0.3239729619 -0.155545740
#> [558,] -1.2277752925 -1.6005338110 -2.419240002
#> [559,] 0.0091411275 -0.9026611723 -0.489540359
#> [560,] 0.5518770022 1.2014151358 1.354914465
#> [561,] -1.9063820976 -2.4502633876 -3.737013185
#> [562,] 0.4421597274 1.5046524656 1.386383283
#> [563,] -0.3310500305 0.5473182594 -0.109073917
#> [564,] -4.3311177191 -8.1452448780 -9.921085340
#> [565,] 0.3086042944 -0.5625513886 0.072630793
#> [566,] 0.2653498023 -0.1082559692 0.270808261
#> [567,] 1.4776007667 2.2384628524 3.084791182
#> [568,] -0.2728024719 -1.5974983312 -1.226723808
#> [569,] -1.3376612964 -2.0103521706 -2.783697639
#> [570,] 0.5598543152 2.1143332117 1.871493322
#> [571,] 1.5637989271 2.6866018146 3.440976891
#> [572,] -1.4413839206 -1.3581224939 -2.551077473
#> [573,] 0.5356356484 0.3796030914 0.878590551
#> [574,] -0.0190048575 0.6800457840 0.353698268
#> [575,] -1.2346112206 -3.2044629575 -3.317877788
#> [576,] -0.4606169299 -0.4645913014 -0.832208638
#> [577,] -1.1119504737 -0.6620217330 -1.753973905
#> [578,] 0.6896983678 1.4573744220 1.668821584
#> [579,] -0.1116637117 -0.4940268165 -0.413406570
#> [580,] 0.7360201524 1.7001066338 1.861290120
#> [581,] 0.7577237475 1.0232115276 1.512705616

```

```

#> [582,] -0.1061950317 -1.7420862787 -1.099207986
#> [583,]  0.9619408616  0.9639357694  1.734464628
#> [584,]  0.4311739149  0.6383473316  0.891921120
#> [585,]  0.4093945455  1.9944458759  1.617340606
#> [586,]  0.7506096515  1.9791369512  2.034333071
#> [587,]  1.9819288897  3.3499798631  4.330523469
#> [588,] -1.7282291709 -2.9922873140 -3.815660705
#> [589,]  0.6911989762  0.5357248404  1.159215882
#> [590,] -0.9586950965 -0.6987847844 -1.583269530
#> [591,] -0.2401859811 -0.9033883089 -0.800849708
#> [592,]  1.7451690032  2.2045864603  3.399643336
#> [593,] -1.6268910940 -3.4835339741 -3.961915519
#> [594,] -1.4926900835 -3.3291302311 -3.708881983
#> [595,]  1.2491099967  1.5190131577  2.400603393
#> [596,]  0.5456320348  1.8259812423  1.693735158
#> [597,]  0.5561675176  1.0679329088  1.286187603
#> [598,] -2.3371433543 -2.2279402602 -4.150783659
#> [599,]  1.0306148417  0.2403742042  1.418553306
#> [600,] -0.8430267439 -0.1602309525 -1.140158625
#> [601,] -1.1801238295 -2.9068637663 -3.084778031
#> [602,] -0.3802924260 -0.1919980766 -0.580767793
#> [603,] -0.0622558441  0.0779342348 -0.034381530
#> [604,]  0.3856473300  0.5935382832  0.810283252
#> [605,] -0.1291030136  0.0226756948 -0.148404764
#> [606,] -0.1988770161 -1.3123829082 -0.976313150
#> [607,]  1.1045488234  1.9575474731  2.463706743
#> [608,]  0.8767487813  1.6735556718  2.022041177
#> [609,] -0.8128591552 -0.4640861295 -1.271167159
#> [610,]  1.5152672855  1.6703668260  2.816491053
#> [611,]  1.6473577321  2.7842841509  3.599382624
#> [612,] -0.9652288771 -2.2409218717 -2.447238539
#> [613,]  3.9542319471  7.2029621387  8.928189000
#> [614,] -1.2705213497 -1.7350523272 -2.547195608
#> [615,] -0.2438879195 -0.3949471869 -0.523302414
#> [616,]  0.7010712892  1.1441381963  1.509170395
#> [617,]  0.9559883636  0.7419709172  1.603860785
#> [618,]  0.1670841535 -0.1288793718  0.136827876
#> [619,]  0.2386271774 -0.0360207898  0.277573193
#> [620,] -0.9814102974 -0.8311278171 -1.685039765
#> [621,]  0.7509331105  1.9878728239  2.039584462
#> [622,] -0.2552506358 -0.4235713749 -0.553356716
#> [623,] -0.4915945324 -0.7945544293 -1.053952797
#> [624,] -0.3749797406 -0.1480341496 -0.549744843
#> [625,] -0.2338721594  0.4201626015 -0.058461160
#> [626,]  1.4481940236  1.9529093040  2.889651309

```



```

#> [627,] 1.1890052740 3.6474207692 3.506831142
#> [628,] 1.9576544556 3.2069365539 4.220870697
#> [629,] 0.3760147163 0.8725865528 0.953131685
#> [630,] 0.3950462480 0.5384260840 0.791418548
#> [631,] 1.9288464394 4.4656204148 4.883464533
#> [632,] -0.5130180290 -1.1163304436 -1.259239676
#> [633,] 2.5153487403 3.6223676677 5.146850970
#> [634,] 2.0214870170 3.5399577164 4.485281401
#> [635,] -0.1780967261 -0.2782813093 -0.376517461
#> [636,] -0.5093348180 -0.9621795246 -1.169099481
#> [637,] 0.1144517455 -0.1353627453 0.067598336
#> [638,] 0.0573902092 -0.0536606325 0.041785016
#> [639,] -0.9604568200 -2.1440090285 -2.387505310
#> [640,] 0.4262113568 1.5317711911 1.381545748
#> [641,] 0.5939294374 0.0651973084 0.776799671
#> [642,] -0.8913197913 -0.6987277557 -1.499222250
#> [643,] -1.0766394415 -0.1345602366 -1.417222722
#> [644,] -0.8853716564 -1.8338987612 -2.121777428
#> [645,] 0.7770435875 0.4159912082 1.199815209
#> [646,] -0.3818552793 -0.2047435528 -0.589789844
#> [647,] 1.7849646572 2.8817701674 3.825076310
#> [648,] 0.8612182557 2.0705893837 2.223012016
#> [649,] -1.7434288603 -1.7468365324 -3.143441368
#> [650,] 0.8319784763 0.9801558849 1.581405670
#> [651,] -0.6360239360 -0.7999787526 -1.237063590
#> [652,] -0.0304203798 0.7354369230 0.370203108
#> [653,] -0.1532765010 -0.1407222364 -0.269227620
#> [654,] -1.4766888294 -2.3349672791 -3.137209931
#> [655,] 0.3969074000 0.8999743894 0.994383538
#> [656,] 0.6399906816 -0.0381505345 0.776883377
#> [657,] 0.4935301875 0.0191040909 0.626024048
#> [658,] 0.4267181521 0.2340629019 0.662003943
#> [659,] -0.7278324022 -1.7145993257 -1.859123000
#> [660,] 0.5300755683 0.6171582900 1.003490434
#> [661,] -0.7424940622 -0.7106342440 -1.320247204
#> [662,] -1.2439404579 -2.3234101922 -2.840563760
#> [663,] -0.5104075414 -1.3291462766 -1.374088329
#> [664,] 0.5674808458 0.8079467662 1.156013668
#> [665,] -0.1504220534 0.4013202778 0.035142719
#> [666,] -0.2949927041 -0.3479491569 -0.560947099
#> [667,] 0.6748575333 1.4860299428 1.666217981
#> [668,] 0.7207513055 -0.9834598645 0.352983128
#> [669,] -0.4101406935 -0.3687961767 -0.716103517
#> [670,] -1.6384663673 -3.9513618006 -4.235974506
#> [671,] -0.4801636607 -1.096645616 -1.207357208

```

```

#> [672,] 2.2752307142 2.5487193555 4.251598827
#> [673,] 0.1452547757 0.8189101022 0.635590563
#> [674,] -0.3539285381 -0.6306920631 -0.791349357
#> [675,] 1.3014742060 1.2110385341 2.294987472
#> [676,] -1.1958504680 -2.2632748624 -2.747223933
#> [677,] -0.6085043364 -2.0502337384 -1.896586382
#> [678,] 0.8588165239 2.3789792621 2.391160576
#> [679,] -1.5500006620 -2.2622127228 -3.188252558
#> [680,] 0.1593095938 0.8266963759 0.657437691
#> [681,] -0.0197677835 0.1572453475 0.062614561
#> [682,] -0.9926789959 -2.4271119054 -2.584795950
#> [683,] 1.3840330978 2.1956033892 2.944328999
#> [684,] 0.9620609439 0.8576307053 1.675619509
#> [685,] 2.1328543947 3.5536824320 4.631770892
#> [686,] 0.1765884987 1.0283760858 0.790907928
#> [687,] -1.1381838264 -1.8597174745 -2.451357353
#> [688,] 0.7622813484 2.0858060892 2.108084345
#> [689,] 0.1849923075 -0.3639450808 0.028707352
#> [690,] -0.0261234987 1.8722936330 1.006469107
#> [691,] -0.3786955595 0.0637537623 -0.436844970
#> [692,] 0.7823164883 2.2849045237 2.243559051
#> [693,] -0.6228729188 -1.5464538446 -1.634926962
#> [694,] 0.8538088695 0.6587780520 1.430276483
#> [695,] -1.3148225823 -2.0096166768 -2.754810060
#> [696,] -0.1458522343 0.4393620399 0.061952776
#> [697,] 1.5163934775 2.9948782189 3.552943760
#> [698,] -0.4127100271 -0.5968210073 -0.845851657
#> [699,] 0.5627616834 0.1133019243 0.764630165
#> [700,] 0.9859635448 1.0720392121 1.824413309
#> [701,] -2.3548975259 -3.6737010026 -4.975259430
#> [702,] 0.4458242175 1.6228406482 1.456542321
#> [703,] -1.5037318775 -2.5741400665 -3.303662944
#> [704,] 0.7755522172 1.0797701276 1.566325010
#> [705,] 0.1516927559 -0.6368170306 -0.164249017
#> [706,] 0.0892435663 -0.4105880376 -0.116574263
#> [707,] 1.0027669719 0.9666076775 1.786856752
#> [708,] 1.3953718620 1.8109425420 2.744997542
#> [709,] 1.0859446833 1.7434947937 2.321717485
#> [710,] 0.6619630524 0.4221722760 1.059742362
#> [711,] -0.8678024708 -1.1664102716 -1.729440847
#> [712,] -0.6014303716 -1.2001682731 -1.416014549
#> [713,] -0.9869432910 -1.2963041378 -1.950092677
#> [714,] -0.6724667589 -0.9563813248 -1.369303926
#> [715,] -0.2783964747 -0.5838692117 -0.671177693
#> [716,] 1.1854468648 2.1216095528 2.655632536

```

```

#> [717,] 1.7520707521 3.8370346526 4.314190076
#> [718,] -0.5005612333 -0.0919072406 -0.675194319
#> [719,] 0.6308896047 1.1585602208 1.429658885
#> [720,] -1.6727816231 -3.2352659026 -3.881361688
#> [721,] 1.5355887596 2.6612972405 3.391756408
#> [722,] -0.9782686252 -2.6483831414 -2.689622784
#> [723,] 1.2829514046 1.9831068176 2.700355489
#> [724,] -1.0064938924 -1.8589430588 -2.286712923
#> [725,] -0.1408081877 -0.8758331899 -0.661635689
#> [726,] -0.7979665555 -2.3326269847 -2.289558333
#> [727,] -0.4548122332 0.9960150848 -0.014394907
#> [728,] 0.5404664975 1.0464983669 1.254713478
#> [729,] -1.8447457839 -2.6896102416 -3.792981442
#> [730,] -2.3409167713 -4.0137358585 -5.146530823
#> [731,] 1.7688551144 2.0237209063 3.328806624
#> [732,] -0.3458969145 -0.3645260468 -0.633623091
#> [733,] -1.0129934858 -1.1430330667 -1.897517711
#> [734,] 0.3632356580 1.0964961014 1.061456885
#> [735,] 0.1728184785 -0.9872966302 -0.332407176
#> [736,] -0.4761029296 -0.7446262138 -1.006927015
#> [737,] -0.7617788044 -0.5042831936 -1.229778691
#> [738,] 1.6036359072 1.7495270205 2.970615515
#> [739,] -0.7195609030 -1.3095685050 -1.624033461
#> [740,] -0.4357372033 -0.7966797099 -0.985479289
#> [741,] 0.7310970766 1.9427917935 1.989831248
#> [742,] -0.1270053178 -0.7062974973 -0.550338581
#> [743,] -0.9988535997 -1.6054398848 -2.136501986
#> [744,] -1.3243022129 -1.8365128965 -2.670565615
#> [745,] 1.1885165760 1.3468038609 2.229475684
#> [746,] 0.8439227997 0.6813096353 1.430452841
#> [747,] 1.2117013654 2.1564370910 2.707699188
#> [748,] -1.2653343373 -1.1114728389 -2.194667001
#> [749,] 0.2564157402 -0.4939736444 0.045610507
#> [750,] -1.6314667361 -4.1111687006 -4.315932247
#> [751,] 0.9223420173 0.8636596156 1.629436610
#> [752,] 0.2831659905 1.3319054626 1.092253982
#> [753,] -0.6412052403 -1.8709683595 -1.837878962
#> [754,] 0.8448292979 1.5587589384 1.918530852
#> [755,] -3.4731186032 -4.7073547526 -6.943292860
#> [756,] -0.4815399402 -0.9599455558 -1.133200076
#> [757,] 0.1932042986 -0.8023897926 -0.204370921
#> [758,] 0.8582517994 1.2468013695 1.762145048
#> [759,] 1.8991528258 2.6875191692 3.859665456
#> [760,] -1.2494834468 -1.2624293581 -2.258675812
#> [761,] -1.8755910625 -3.6776211178 -4.379749546

```

```

#> [762,] -0.7381730319 -1.4452856987 -1.722559766
#> [763,] 0.6324954434 0.1656543507 0.880640146
#> [764,] 1.5061347900 1.5462766404 2.736238160
#> [765,] 3.0040986573 5.9407894864 7.042939190
#> [766,] -0.1941923320 -0.8993301181 -0.741244440
#> [767,] -0.2818704436 -1.4847329022 -1.175451292
#> [768,] 1.2263423100 3.1611101641 3.283507640
#> [769,] -1.9408182083 -2.7333104225 -3.937033567
#> [770,] 2.2158010106 4.8008269362 5.427316615
#> [771,] 0.3853274955 0.0156027598 0.489154406
#> [772,] -2.0372006167 -2.2635078197 -3.796499689
#> [773,] 0.1913119109 0.8024473628 0.683886740
#> [774,] 0.3542773030 -0.8074758573 -0.006338723
#> [775,] 1.4474557261 1.7296722482 2.764843448
#> [776,] -0.6170054386 -1.0035618675 -1.326328017
#> [777,] -0.2399118746 -0.9824107018 -0.844362022
#> [778,] 0.0509893421 0.3446037967 0.254823349
#> [779,] 0.0983487970 0.8749338398 0.608190593
#> [780,] -1.5107867184 -2.6454474483 -3.352032798
#> [781,] -0.1298483778 0.0921312890 -0.110789271
#> [782,] -0.4512031286 -0.8604749109 -1.040168648
#> [783,] -0.4743792416 -0.1010225189 -0.647604507
#> [784,] 0.0962835028 -0.8782763139 -0.367343018
#> [785,] -1.2853568290 -3.4088758677 -3.494597133
#> [786,] -0.6379311271 -0.3181036484 -0.972021311
#> [787,] 2.3194976087 3.0575691038 4.589189047
#> [788,] -0.2975759644 -1.1528293362 -1.010843173
#> [789,] -0.6257281280 -2.2462253413 -2.026831233
#> [790,] -0.2852529965 -0.6577911048 -0.720751191
#> [791,] -1.3520122483 -1.5832461183 -2.564567006
#> [792,] 0.4719746430 0.7537315456 1.006832204
#> [793,] -1.1419069151 -1.5428470853 -2.280150169
#> [794,] 0.2126966683 -0.1978989808 0.155402758
#> [795,] -0.7444323240 -0.3961932686 -1.148162601
#> [796,] -0.0986092001 -0.0049685636 -0.125721006
#> [797,] 0.8028487954 1.7684709580 1.982563412
#> [798,] -0.8227161546 -1.5950137731 -1.911076129
#> [799,] 0.5665928878 0.9397346729 1.228043173
#> [800,] 2.3385616326 3.5396550568 4.880499017
#> [801,] 0.0283695773 -0.8191905158 -0.419240154
#> [802,] -2.9922316258 -4.3423690070 -6.141084800
#> [803,] -1.1146431066 -2.2116332559 -2.617301080
#> [804,] 1.7339596503 2.7459481160 3.686098555
#> [805,] 0.9185204959 2.7779410670 2.687017310
#> [806,] -1.9204664226 -3.7636329609 -4.483441176

```

```

#> [807,] 0.3053705368 -0.3524913010 0.185172917
#> [808,] -1.0022719632 -1.2551646461 -1.946376523
#> [809,] -0.3645210112 -0.4319384151 -0.694258002
#> [810,] -0.7266098869 -1.0811866001 -1.506081005
#> [811,] 0.6830555253 0.9946379192 1.403738710
#> [812,] -0.6902874752 -1.3262356259 -1.596779648
#> [813,] 0.5815002902 1.4036701636 1.504097174
#> [814,] -0.6363129943 -1.6026360542 -1.682865236
#> [815,] 2.8635070744 4.2985931765 5.956274157
#> [816,] 1.8259418869 3.4458123784 4.189193892
#> [817,] -1.2471893714 -1.9520060032 -2.638501314
#> [818,] 1.8362742830 4.1268657134 4.580034265
#> [819,] 1.0880740152 1.9316271727 2.428778312
#> [820,] -0.7807446783 -2.0978880705 -2.137812734
#> [821,] -0.3270344630 0.4767483065 -0.143229955
#> [822,] -0.8905541856 -1.0603771375 -1.698967821
#> [823,] 2.2928492727 4.4097493065 5.306362515
#> [824,] -0.4264316973 -0.3544240379 -0.728442131
#> [825,] 1.2235506779 1.8977067810 2.578890550
#> [826,] -0.8800432863 -1.7519876078 -2.069675799
#> [827,] -0.2123083301 0.7610738572 0.157619969
#> [828,] -0.7951793006 -0.8488201451 -1.462632011
#> [829,] 1.2447988503 1.1310223958 2.179908853
#> [830,] 1.6164542664 3.0154442681 3.689130819
#> [831,] 0.4035325390 1.2990000843 1.224087506
#> [832,] 1.2645608337 1.1858779720 2.234994192
#> [833,] 0.8740949259 0.5467294293 1.393390487
#> [834,] -1.6603025168 -1.4373137133 -2.868012308
#> [835,] -0.3907349403 -0.3706564698 -0.692937323
#> [836,] 0.4997614730 2.3163977389 1.908696126
#> [837,] 1.9097457991 3.9129920795 4.552960835
#> [838,] -0.3368448188 -0.2591329567 -0.563846560
#> [839,] -0.4759239299 -1.6885303524 -1.530531084
#> [840,] -1.4993412424 -2.6364527550 -3.332768845
#> [841,] -0.7822051828 -1.9350141746 -2.049245761
#> [842,] 0.4417883599 0.8887679046 1.044130050
#> [843,] 1.0371237568 1.6080506741 2.185672970
#> [844,] 0.1178530597 0.8085749371 0.595685598
#> [845,] 1.7175312477 2.4420756796 3.496976192
#> [846,] 1.1093300541 2.1983410205 2.603299178
#> [847,] -0.9305221434 -2.6240460315 -2.616577818
#> [848,] 0.0967139089 -0.6577891710 -0.244445178
#> [849,] -1.0167906055 -0.6905755933 -1.651157688
#> [850,] 0.4995260320 1.0088205902 1.182751964
#> [851,] 1.3638961623 1.9646002355 2.791021573

```

```

#> [852,] -0.3575590415 -0.4317096387 -0.685449607
#> [853,] -0.2071313992 -0.4005807903 -0.480594197
#> [854,] 0.5120364768 1.5904724990 1.521144690
#> [855,] -1.6569046974 -3.1137924675 -3.794150814
#> [856,] 1.2319145060 2.0678963838 2.683768177
#> [857,] -1.8476594751 -1.7244302803 -3.260980287
#> [858,] 0.6930593087 2.3840330934 2.187269374
#> [859,] 1.4642229022 2.8143699179 3.387713567
#> [860,] 2.5199180775 4.6124689381 5.702013592
#> [861,] 0.1816413954 -0.8378495121 -0.238468285
#> [862,] -1.6172013078 -1.5860018477 -2.896781669
#> [863,] -1.1644518835 -2.5967513791 -2.893136043
#> [864,] 0.9419256201 1.8559899545 2.204558755
#> [865,] 0.7558074262 0.2229554805 1.066207402
#> [866,] -0.0035687794 -0.7721294698 -0.432949723
#> [867,] 1.0655772531 2.3445064250 2.629856007
#> [868,] 0.7733739167 2.0442842092 2.098873646
#> [869,] 0.2810664637 1.2884448177 1.065517077
#> [870,] 0.1432137871 0.3162485200 0.354089359
#> [871,] 0.0227804391 0.4841699508 0.297100794
#> [872,] -0.5751362848 0.4556942949 -0.464291962
#> [873,] 2.8023305780 4.1559956300 5.800852645
#> [874,] 0.3209031778 0.4968076469 0.675867161
#> [875,] -1.3590265676 -2.1560939018 -2.891220255
#> [876,] -0.8395959024 -0.4891016531 -1.318389905
#> [877,] 1.2472955011 -0.2953871026 1.391424575
#> [878,] 0.8946389585 2.2008520620 2.336977283
#> [879,] -1.6183519518 -1.9263565162 -3.087099089
#> [880,] 0.2694258178 -0.5639887193 0.022978373
#> [881,] 0.0163051403 -0.9687810320 -0.517300735
#> [882,] 0.5132497762 1.5324284515 1.490445633
#> [883,] 1.0519114652 1.1959804550 1.975431221
#> [884,] -0.8903670910 -2.3527401390 -2.415941875
#> [885,] -0.2255297625 -0.0790321148 -0.325090529
#> [886,] 0.9735657780 2.1060969500 2.382812297
#> [887,] 0.2077225939 0.9903783144 0.808644337
#> [888,] -0.0506831296 0.2554782003 0.078578876
#> [889,] -0.1041293119 -0.1967553685 -0.239038120
#> [890,] 2.2146727681 4.1786706044 5.080639004
#> [891,] 0.0674995821 0.2030486798 0.196854118
#> [892,] 0.8240087403 1.3544809970 1.779202336
#> [893,] 2.1493986333 2.5556808305 4.098552116
#> [894,] -1.4951357930 -2.9559487979 -3.504831662
#> [895,] -0.2885682769 -0.6219863570 -0.705015142
#> [896,] 0.0766843467 1.1169756173 0.715498518

```

```

#> [897,] -2.8328474550 -4.1411215097 -5.830652055
#> [898,] -0.4279268448 0.2321785854 -0.404766653
#> [899,] -0.1027475159 -1.5974147250 -1.014622349
#> [900,] -2.3082200541 -3.4853318629 -4.812516589
#> [901,] -0.5940298139 -1.5155319882 -1.581799863
#> [902,] 1.0063952598 1.7168026001 2.207707926
#> [903,] 1.7162923276 1.0337522570 2.713870748
#> [904,] 1.4929766124 2.8703691785 3.454646102
#> [905,] -0.8451852542 -0.1897019468 -1.159205411
#> [906,] -0.7817996108 -1.5953321031 -1.860230693
#> [907,] 0.7968828706 1.8152963679 2.001110168
#> [908,] -1.7649677071 -2.2416135780 -3.444880416
#> [909,] 0.7445759354 0.5846432811 1.252923548
#> [910,] 1.1583306974 -0.0195866889 1.433544962
#> [911,] -0.9998129015 -0.9560411791 -1.777309123
#> [912,] -1.3160024186 -2.0897039282 -2.800726363
#> [913,] 2.8373513486 4.7472607057 6.172650194
#> [914,] -0.4348835442 0.2793258616 -0.387276751
#> [915,] -0.0651540352 -0.5186935382 -0.369098950
#> [916,] 1.3177745929 2.6325445459 3.104190043
#> [917,] -1.9588829297 -3.2805374615 -4.263248001
#> [918,] 0.4961096883 -0.5643762726 0.305433461
#> [919,] 1.9983619783 3.9679598946 4.693968239
#> [920,] -1.1014746011 -1.4342517435 -2.169466030
#> [921,] -0.9444340304 -1.9194358286 -2.242896495
#> [922,] -0.5944770004 -1.9585893110 -1.828235760
#> [923,] -0.1206876811 0.7932196962 0.289708644
#> [924,] 0.9642100807 1.8139868424 2.209037054
#> [925,] -0.0413937034 -0.3725951430 -0.258391808
#> [926,] -2.0023054106 -3.6765301085 -4.537154289
#> [927,] -0.1762646440 -1.3214088875 -0.953125024
#> [928,] -0.2066331625 -0.7881700358 -0.695068710
#> [929,] -0.9874855554 -1.1859838495 -1.889545728
#> [930,] 1.0116053001 3.6088274164 3.264199298
#> [931,] -0.0769784251 -0.4806753217 -0.362745205
#> [932,] -0.0141258192 -0.3128699802 -0.191244348
#> [933,] -1.0329201772 -2.0368288221 -2.418385112
#> [934,] -0.8714118256 -0.9450105058 -1.611074038
#> [935,] 1.7731065741 2.1676853842 3.414002365
#> [936,] 0.2586789456 0.3940539871 0.541250834
#> [937,] -0.5205876150 -0.9032226002 -1.150412865
#> [938,] 1.0846857185 1.0680959526 1.945329502
#> [939,] -1.9258277697 -4.2113395325 -4.738585070
#> [940,] -0.5577065015 -0.9842890410 -1.241687840
#> [941,] -1.8682605594 -2.7285875091 -3.843934639

```

```

#> [942,] -0.8298702222 -0.7111999237 -1.429517422
#> [943,] -0.6968284047  0.0979181703 -0.814590323
#> [944,] -0.2978126190 -2.2171689804 -1.601802217
#> [945,]  0.5876127641  2.2155512539  1.962279317
#> [946,]  1.2737050413  2.5909329436  3.026143514
#> [947,]  0.1195566240 -0.3135577760 -0.024926766
#> [948,] -2.5305855143 -3.3614197796 -5.021035764
#> [949,]  0.1262515134 -0.7613280450 -0.265072128
#> [950,]  1.8869486967  2.1248002983  3.532161743
#> [951,]  0.4743961495  0.6961526938  0.977897921
#> [952,]  0.6494689386  1.3623715030  1.565933664
#> [953,] -0.5707686079 -0.7554733444 -1.130992888
#> [954,]  0.0895344411  0.4785831141  0.377241213
#> [955,]  0.4352146363 -0.9687389677  0.005094207
#> [956,] -0.8908183071 -0.9351323921 -1.629791585
#> [957,] -0.6067399902 -0.6910322370 -1.140086352
#> [958,]  1.6178548126  2.3367022489  3.314203868
#> [959,]  0.3419037243  1.8579286529  1.457419585
#> [960,]  0.6019503125  1.2777826226  1.459735620
#> [961,]  1.3442395897  1.4181037716  2.463227571
#> [962,] -0.7731087834 -1.3156477285 -1.694180290
#> [963,] -0.8869948252 -2.0973098006 -2.269983585
#> [964,] -1.8272963126 -2.5186916860 -3.676369665
#> [965,] -0.4861103620  0.8256207239 -0.147984772
#> [966,]  0.2676980187  0.2697156103  0.483494841
#> [967,] -0.8929106465 -2.1861859670 -2.326683045
#> [968,] -1.1565032695 -3.1280502014 -3.178072886
#> [969,] -1.1827459024 -2.5657029497 -2.898717733
#> [970,] -0.9787593329 -1.7613318125 -2.197958338
#> [971,] -1.5196950722 -2.9853667173 -3.551782296
#> [972,] -1.7810210296 -2.6434563005 -3.687904468
#> [973,]  3.5170837737  5.1943893203  7.268400325
#> [974,] -0.1644847204 -0.5521644058 -0.511537219
#> [975,] -1.0417309275 -3.0809241572 -3.008801135
#> [976,]  1.0754154231  2.3384407502  2.638757809
#> [977,] -0.3127814478 -1.8217413276 -1.401022250
#> [978,]  0.6254966422  0.5357540895  1.077302644
#> [979,]  0.3806364669  0.3627047675  0.675931871
#> [980,] -1.9082871011 -2.2809842610 -3.645445858
#> [981,] -2.1706756541 -3.6207070016 -4.716129061
#> [982,] -1.2553963918 -1.3191681074 -2.297536764
#> [983,] -0.2322093204 -1.7762365137 -1.275297184
#> [984,]  2.9163369607  4.8335027022  6.319004339
#> [985,] -1.6972585348 -3.9044161636 -4.283234276
#> [986,] -0.1551430521 -0.5253383382 -0.485001004

```



```

#> [987,] 1.4528222094 2.0403532555 2.943950294
#> [988,] -1.1981970925 -1.2331827620 -2.178492138
#> [989,] 0.7829272024 -0.3578869296 0.777681991
#> [990,] 1.1234203054 0.8981559497 1.899321155
#> [991,] -0.3424986115 -0.6073296295 -0.764131300
#> [992,] -1.0240335163 -0.8431190044 -1.744844656
#> [993,] -0.1667635376 -0.3648245520 -0.410413082
#> [994,] -1.6723239860 -3.8933851585 -4.246019656
#> [995,] 0.4269370683 1.2487359093 1.225377964
#> [996,] 0.4225211545 0.1972863517 0.636360927
#> [997,] 0.4784905626 0.4423371717 0.842146583
#> [998,] -0.1358443188 0.3094443655 0.002333572
#> [999,] -0.2380304890 -0.5982753248 -0.628836922
#> [1000,] 0.2655535137 0.1633945740 0.421816963
#> [1001,] 0.4376822697 -0.4372793859 0.303109112
#> [1002,] 0.4572472358 0.7618168927 0.992954457
#> [1003,] -0.3449784908 0.7124992762 -0.034773874
#> [1004,] -0.0425445544 -0.6561371064 -0.417180815
#> [1005,] 0.7873128383 2.2684462214 2.240655729
#> [1006,] -1.3718401887 -2.7695956143 -3.247666344
#> [1007,] 0.1138960925 -1.2598678843 -0.557147823
#> [1008,] -0.2207813950 0.5703026489 0.041184196
#> [1009,] -0.0871120907 0.4023070249 0.114636555
#> [1010,] -0.1663179297 -0.7559452177 -0.626913012
#> [1011,] 1.5777238027 2.2725812122 3.228576827
#> [1012,] 1.0855133452 2.9216819068 2.975024135
#> [1013,] 0.7994070272 2.9684501548 2.644209811
#> [1014,] 0.1050981617 0.6833728007 0.510298557
#> [1015,] -1.0671016100 -2.1378890069 -2.517092833
#> [1016,] 0.7413899075 0.1509670955 1.008278510
#> [1017,] 0.1839613721 -0.1917490031 0.122983410
#> [1018,] 1.1467521517 3.0100506799 3.100428647
#> [1019,] 1.0713363357 0.9719516011 1.875327004
#> [1020,] -0.6036976290 -1.1109591198 -1.369334428
#> [1021,] -0.0984099905 -0.8856391146 -0.614207880
#> [1022,] 0.2576767439 1.2050279614 0.990057711
#> [1023,] 0.2604836271 -0.8282616287 -0.134832756
#> [1024,] -0.4079655580 -1.4163240791 -1.294725295
#> [1025,] 0.2906601313 -0.1468774111 0.280936442
#> [1026,] 1.2065280351 2.3795026320 2.825040187
#> [1027,] 0.7735156905 2.6627436992 2.442269559
#> [1028,] -1.2257715703 -3.0558986583 -3.224407958
#> [1029,] 0.9831439575 1.0680096329 1.818661093
#> [1030,] 1.0445157763 2.0040374523 2.414646750
#> [1031,] 0.2273832897 0.8562169347 0.758706875

```

```

#> [1032,] 1.9947123199 3.2715399034 4.302933252
#> [1033,] 1.1224698420 1.2333612504 2.084160854
#> [1034,] -0.2516965278 -0.4721114886 -0.575862546
#> [1035,] -1.2006697458 -1.9628316139 -2.586500050
#> [1036,] -0.8067554214 -1.0345385514 -1.580133138
#> [1037,] 1.2749320738 2.2759032693 2.852845319
#> [1038,] 0.2437087079 0.3080720478 0.474866876
#> [1039,] 0.0563300921 -0.7574784262 -0.350126337
#> [1040,] 0.1031786781 0.2311539331 0.256942462
#> [1041,] 0.7856455123 0.4417609043 1.224842736
#> [1042,] -0.6783947777 -1.2647298591 -1.547816571
#> [1043,] -0.1407318157 0.3926075327 0.042391039
#> [1044,] -2.8258974138 -5.4890060196 -6.570004965
#> [1045,] 0.8509228718 1.5950501589 1.946269522
#> [1046,] 1.0590302040 2.7221126946 2.831247640
#> [1047,] -0.4716056445 -1.4841537968 -1.411725839
#> [1048,] 0.3440268506 0.7887632031 0.866725020
#> [1049,] 0.1855029417 -0.7666800860 -0.194156964
#> [1050,] -1.3581247511 -3.0601288825 -3.391797272
#> [1051,] -0.9645514475 -1.9432536334 -2.281200388
#> [1052,] 1.2386218071 2.4272494704 2.891557962
#> [1053,] -0.7327726964 -1.0823573712 -1.514415632
#> [1054,] -1.3996488537 -3.3389066717 -3.598286983
#> [1055,] -1.5160781677 -3.8035402865 -4.001324165
#> [1056,] 0.0773070606 -0.3713230255 -0.109668405
#> [1057,] 0.2197490220 0.4442721064 0.520574967
#> [1058,] -0.4855811821 0.0199670998 -0.594428926
#> [1059,] -0.8869466667 -1.1747036445 -1.757915743
#> [1060,] -2.0060248002 -3.4866542866 -4.436419161
#> [1061,] -1.5703867858 -3.4174171525 -3.854763731
#> [1062,] -0.4681304262 -0.9531581641 -1.112711968
#> [1063,] 1.7604818995 2.7703160582 3.732694446
#> [1064,] 0.6588869195 1.4840653781 1.645212700
#> [1065,] -1.2952777774 -2.9275644461 -3.239860666
#> [1066,] -0.5982076887 -0.8009382758 -1.190439996
#> [1067,] -0.0860124560 0.0341349180 -0.088312328
#> [1068,] 0.5475421793 0.4307882727 0.921843385
#> [1069,] 1.7316128732 4.1720188098 4.474581700
#> [1070,] 0.0178680721 -0.6801922751 -0.355197113
#> [1071,] 0.1213852289 -1.2211943304 -0.526346820
#> [1072,] -1.5906309917 -2.8940042120 -3.589535575
#> [1073,] -0.2759257343 -0.3709434023 -0.549931821
#> [1074,] 0.5688516783 1.4713954305 1.525909300
#> [1075,] -1.2084694815 -1.8098831777 -2.511346183
#> [1076,] 1.2244515413 3.8790013479 3.679549440

```

```

#> [1077,] -0.0704161248 -0.1280662691 -0.158878889
#> [1078,]  2.5945887660  4.1232574038  5.523634498
#> [1079,] -2.9564838804 -4.4501246090 -6.156307938
#> [1080,] -1.5761005724 -3.0350089628 -3.649668172
#> [1081,] -1.0461584258 -1.4401882799 -2.103782417
#> [1082,]  1.6106611077  2.5621000415  3.430319803
#> [1083,] -2.5831027231 -4.9412873585 -5.963284013
#> [1084,] -0.9326486231 -1.6989751416 -2.105853882
#> [1085,] -1.6349628543 -2.4291246267 -3.386827798
#> [1086,]  0.4385927932  1.5425371390  1.402959797
#> [1087,]  1.2409788990  1.6545232387  2.465666502
#> [1088,]  1.4545682201  2.7116915753  3.318692194
#> [1089,] -1.8627082017 -2.4153383587 -3.663170799
#> [1090,] -0.6726790925 -0.6398701872 -1.193918272
#> [1091,]  0.4954593593  0.8005900209  1.062121658
#> [1092,]  0.6978817445  2.0694312400  2.018691997
#> [1093,]  1.2504874636  2.2434632197  2.804360520
#> [1094,]  1.0299188600  1.4648182683  2.097200622
#> [1095,]  1.7137325702  2.3030772502  3.415101010
#> [1096,]  1.5474835919  2.5868379247  3.365267219
#> [1097,] -0.5811924685  0.0124079395 -0.717849267
#> [1098,] -0.4144189897 -0.0701402276 -0.555696917
#> [1099,] -1.6558263344 -2.7810721263 -3.608160259
#> [1100,] -0.8818926049 -1.5794945934 -1.976255460
#> [1101,]  1.1867587076  3.1995298200  3.255468995
#> [1102,] -0.1378092957 -2.6595539127 -1.647786453
#> [1103,] -0.1416247304 -1.2281240125 -0.858160558
#> [1104,] -0.1617536872 -1.2905375097 -0.917897835
#> [1105,] -0.1696164920  0.1581325508 -0.123751361
#> [1106,] -0.4392683691 -0.4919993976 -0.820797764
#> [1107,]  0.1268261441 -0.1842795435  0.055882184
#> [1108,] -1.9196080826 -2.8889177490 -3.996940524
#> [1109,]  1.5367486526  1.7065358669  2.863350183
#> [1110,] -0.9383990726 -1.4569639235 -1.978718481
#> [1111,] -0.0237705263 -0.7090335112 -0.423125274
#> [1112,] -1.0026648881 -1.8680335461 -2.286983072
#> [1113,]  0.8041356444  1.2210808977  1.680389521
#> [1114,] -0.6217829182 -1.9529468619 -1.859154359
#> [1115,]  0.0964884224 -1.9339648361 -0.952950418
#> [1116,] -0.0383083906  0.5669429024  0.266859792
#> [1117,] -0.9160616458 -0.6500958170 -1.503086148
#> [1118,] -0.2668090566 -2.2906456392 -1.603917877
#> [1119,]  0.8170535668  0.4352398359  1.260389019
#> [1120,] -0.1096992994  0.0222088539 -0.124467805
#> [1121,] -1.6123212863 -1.7992325442 -3.009030491

```

```

#> [1122,] -0.0408916511 -0.4834095761 -0.319263130
#> [1123,]  0.2144913089  1.6646037895  1.191251697
#> [1124,] -0.7997935021 -0.8631653180 -1.476346797
#> [1125,]  0.1577189192 -0.7143039726 -0.199736523
#> [1126,]  0.0212389338 -0.2962595826 -0.137927147
#> [1127,] -1.7660592141 -3.7702879877 -4.294591798
#> [1128,]  0.1034717363 -0.7376788294 -0.280353721
#> [1129,]  0.5688671280  1.1763216125  1.362174951
#> [1130,] -1.2459516173 -1.5329794514 -2.404415667
#> [1131,]  0.1651059853  0.6792792598  0.582855345
#> [1132,]  0.9853301430  0.2758256992  1.381758306
#> [1133,] -0.8780422822 -3.4540781754 -3.011769589
#> [1134,]  0.8563587584  1.8107508336  2.072752805
#> [1135,] -1.5419511346 -3.3292874136 -3.770396739
#> [1136,] -0.2301313709  0.7847132162  0.148513855
#> [1137,]  2.0732647605  2.4124118512  3.924106444
#> [1138,] -0.9998420852 -1.4092156460 -2.028838370
#> [1139,] -0.5621784462 -1.9814807628 -1.800663919
#> [1140,]  1.9863798999  4.8261217381  5.155270725
#> [1141,]  0.2205278826 -0.2438284479  0.139679192
#> [1142,]  0.9609817771  2.2759692381  2.461392313
#> [1143,] -0.5050226104 -1.2006657820 -1.296072134
#> [1144,]  0.5839958434  0.2143648696  0.847194433
#> [1145,]  1.1339411678  2.5702204182  2.840366230
#> [1146,] -0.9862780371 -1.3342095401 -1.970299030
#> [1147,]  1.0238047991  1.4491837039  2.080899984
#> [1148,]  0.1242000059  0.0887734672  0.204140432
#> [1149,] -1.5815602388 -2.4790202038 -3.347925782
#> [1150,] -0.2462824236 -0.6234419549 -0.653093342
#> [1151,]  0.0426503481  0.0912699609  0.103835121
#> [1152,] -1.5620841632 -2.3657035014 -3.260753487
#> [1153,] -0.8341934373 -0.3866794185 -1.254813090
#> [1154,]  1.2471703697  2.6238647877  3.011331115
#> [1155,] -1.0592469137 -0.4420420976 -1.566174153
#> [1156,] -0.7390142326 -1.8310303782 -1.937680873
#> [1157,] -1.3010716311 -2.0374612495 -2.753115476
#> [1158,]  0.3377803084  0.1167954937  0.486021764
#> [1159,] -0.2937023570 -0.1471988192 -0.447930031
#> [1160,] -0.4770494461 -0.3469002411 -0.787386039
#> [1161,]  1.0144427501  1.1612688016  1.909444983
#> [1162,] -0.7052429144 -1.1464833403 -1.515673783
#> [1163,] -0.8082816710 -0.7328089442 -1.414589041
#> [1164,] -0.4300180794 -1.8914580285 -1.585903789
#> [1165,] -0.1108169570  0.0095772282 -0.132871524
#> [1166,]  0.3218959234 -0.0471908610  0.375208699

```

```

#> [1167,] 0.0452868191 -0.1585382587 -0.031510356
#> [1168,] -1.3832044552 -1.8494426800 -2.751190999
#> [1169,] 0.5313868062 0.4580246155 0.916812994
#> [1170,] -1.7897562870 -3.3364630389 -4.083386881
#> [1171,] 1.6930285825 2.6800540250 3.598489887
#> [1172,] 1.2663792257 1.8837407089 2.624546290
#> [1173,] -1.8224449240 -2.5074661826 -3.664090398
#> [1174,] -1.2905487211 -2.5804159039 -3.041310723
#> [1175,] 1.1664797390 1.1075539009 2.069222487
#> [1176,] 0.2006286437 0.0617306578 0.284437757
#> [1177,] 0.1836119353 0.9784477242 0.771957860
#> [1178,] -0.4768866686 -0.7150821869 -0.991508624
#> [1179,] 0.6329047859 1.5877593246 1.670359308
#> [1180,] 0.4783876942 0.4862975621 0.866414484
#> [1181,] -1.6871156030 -2.2234675461 -3.337730142
#> [1182,] 0.4045816616 1.2899664681 1.220382462
#> [1183,] 0.8271282741 1.4277800515 1.823770238
#> [1184,] 0.7184735902 1.7601044771 1.872706206
#> [1185,] 1.5225216283 2.6258885972 3.355811648
#> [1186,] -1.1578176720 -1.9140037839 -2.505966987
#> [1187,] 0.4538572212 0.1265153390 0.636161414
#> [1188,] -1.8414561267 -2.9437510564 -3.929916819
#> [1189,] -0.6225539508 -1.1079675841 -1.391187700
#> [1190,] 1.3087023875 1.6492413355 2.547185075
#> [1191,] -0.9714675159 -2.6184192063 -2.664513210
#> [1192,] -1.3936137257 -2.4417220346 -3.092861391
#> [1193,] 2.3925087193 3.9991868921 5.202790862
#> [1194,] -0.3584894146 -1.0025443995 -1.003399155
#> [1195,] -1.8500288168 -3.5588367277 -4.281953584
#> [1196,] 0.9766149291 0.9732379878 1.757925233
#> [1197,] 0.6588363533 0.0454250892 0.846764517
#> [1198,] 1.4660093829 3.2836264633 3.650359008
#> [1199,] 0.6292711126 0.4428868274 1.030471889
#> [1200,] -0.7499838279 -1.3153958410 -1.665204155
#> [1201,] 0.5103349521 1.4985866402 1.468030119
#> [1202,] 0.2046174339 -0.3025876627 0.087230283
#> [1203,] -0.0054968914 1.4890016396 0.819479057
#> [1204,] -0.0250169648 0.9796268500 0.512456242
#> [1205,] -1.0869492569 -2.7578540167 -2.885897067
#> [1206,] -0.4390437596 -1.1447037043 -1.182741243
#> [1207,] -1.6968304619 -3.0682466747 -3.818661420
#> [1208,] 0.6599219784 1.6192313986 1.721514880
#> [1209,] 3.1408431892 6.1451042743 7.326842985
#> [1210,] -2.0711263975 -4.3465188212 -4.994788341
#> [1211,] -0.1023318150 0.2501127636 0.011196426

```

```

#> [1212,] -1.7940228894 -3.2196399610 -4.023875330
#> [1213,] -1.1019935011 -1.9770140495 -2.471323443
#> [1214,] -0.1737541481 0.1205219547 -0.149783240
#> [1215,] -1.6800129431 -4.4514631680 -4.565317559
#> [1216,] 1.2334428031 2.3221688720 2.826784517
#> [1217,] -0.7981998685 -1.9528699284 -2.079100003
#> [1218,] -0.1664646715 -1.0544698065 -0.792764644
#> [1219,] 0.1807867185 0.8344217835 0.688506505
#> [1220,] -2.0213423484 -4.3902052674 -4.956952795
#> [1221,] -2.2100868060 -4.0951799632 -5.028586592
#> [1222,] -1.4211247426 -2.5419213068 -3.182773469
#> [1223,] -1.2174279068 -0.8099188160 -1.967578802
#> [1224,] 0.6764836925 1.0105795841 1.404390725
#> [1225,] 0.9608882244 1.6110891417 2.092295038
#> [1226,] -1.6147490655 -1.8818932133 -3.057931092
#> [1227,] -1.2603577806 -3.6252179890 -3.583484649
#> [1228,] -0.0188934913 0.5887303851 0.303160917
#> [1229,] 0.5212588300 0.7299704552 1.055102170
#> [1230,] -1.1471773039 -2.1763590089 -2.638294830
#> [1231,] 1.1491842069 2.6316889387 2.893486445
#> [1232,] -0.2229694316 0.1220111486 -0.210327254
#> [1233,] 0.3642945983 -0.0294263232 0.437937557
#> [1234,] 1.1101854337 2.0779940791 2.537578305
#> [1235,] 0.0756070620 -0.5953063303 -0.236089625
#> [1236,] 0.2741866770 1.1818287880 0.997770690
#> [1237,] 1.5052775722 1.8706198617 2.915166135
#> [1238,] -1.4086893076 -2.0013246266 -2.867258211
#> [1239,] -0.2488542182 -1.0466721674 -0.891175365
#> [1240,] -1.2545774138 -2.0647446506 -2.710279281
#> [1241,] -2.1008421535 -3.0880027818 -4.333419572
#> [1242,] 1.1885748890 1.0218534532 2.049214528
#> [1243,] 0.6532404510 1.5101561583 1.652650959
#> [1244,] -1.2324002849 -1.7829792282 -2.526256841
#> [1245,] 1.5330980667 3.2667200228 3.724634862
#> [1246,] -0.6845496830 -1.2843926552 -1.566403641
#> [1247,] -0.7767446184 -0.7265663196 -1.371798584
#> [1248,] 0.9076592530 0.1194503378 1.198122512
#> [1249,] 0.1887461971 -0.3241012113 0.055500055
#> [1250,] -1.4652313293 -2.9793304235 -3.480517229
#> [1251,] -0.4830048192 0.3937172271 -0.383800581
#> [1252,] 0.2836811476 0.9127068478 0.860258692
#> [1253,] -0.2802808178 0.4798945536 -0.083183078
#> [1254,] -0.1891159840 -1.1901309751 -0.896296638
#> [1255,] -0.1858065941 -0.8566441757 -0.707098685
#> [1256,] -0.4884869707 -0.3114531619 -0.781976754

```

```

#> [1257,] -0.4848182949 -0.5371105036 -0.902632367
#> [1258,] -0.1756349645  0.4267232089  0.017800297
#> [1259,] -0.6838874245 -0.0132518541 -0.860147894
#> [1260,]  0.0714576931  0.0062467699  0.092572982
#> [1261,] -1.7790834975 -3.3621829803 -4.084351621
#> [1262,]  0.6946976693  1.0943867005  1.473612623
#> [1263,] -1.0874168963 -2.7045308910 -2.856888102
#> [1264,]  0.9772880854  1.4700516685  2.034475437
#> [1265,] -0.8953353686 -1.5020471177 -1.950038206
#> [1266,]  0.9602834368  2.3930470187  2.525494763
#> [1267,] -0.5776608694 -1.9629745823 -1.809700030
#> [1268,] -1.8906796320 -3.1749694822 -4.119614072
#> [1269,]  1.3316992759  2.3250867045  2.950927610
#> [1270,] -0.2117521460  0.0384521920 -0.242711251
#> [1271,] -1.1177631139 -2.3365923957 -2.690538756
#> [1272,]  0.1563523653  0.3776811609  0.404565442
#> [1273,]  1.8278437509  3.5243159347  4.235131664
#> [1274,] -1.1116275217 -0.7906604023 -1.824960267
#> [1275,]  0.4087497964  0.2990807559  0.675679957
#> [1276,] -0.2765986197 -0.5677766612 -0.660005113
#> [1277,]  1.4317411788  0.7748643539  2.215369322
#> [1278,] -0.3709997352  0.5347126341 -0.165885978
#> [1279,]  0.1674631669 -0.0595870233  0.175754850
#> [1280,]  0.4354102542  0.4480540747  0.791598959
#> [1281,] -0.3699753962 -2.0154016070 -1.579815284
#> [1282,] -1.2005977839 -1.2327689865 -2.181256123
#> [1283,] -2.2577841853 -2.2932118045 -4.088047368
#> [1284,] -1.1225344590 -0.3599979093 -1.599561342
#> [1285,] -0.1787304769 -1.6557295798 -1.141733854
#> [1286,]  2.1221347648  3.1271612817  4.381702352
#> [1287,]  0.4374256324  0.9680848618  1.082707408
#> [1288,] -0.6154401319  0.5313658730 -0.472555479
#> [1289,] -0.2937784555  0.3731595607 -0.159247809
#> [1290,]  0.2665808333  1.0112009815  0.893595070
#> [1291,]  1.1346528020  1.0237459455  1.983025039
#> [1292,] -0.6311795768 -1.2782425410 -1.496439152
#> [1293,]  0.8225675867  0.9735842215  1.566023484
#> [1294,]  0.2532661971 -0.4774053558  0.050877798
#> [1295,] -0.6158222000 -0.5355760722 -1.065140020
#> [1296,] -1.5537571613 -2.9864321249 -3.594848283
#> [1297,] -0.6102204889 -1.0544191056 -1.346090961
#> [1298,]  0.7362161605  0.9993017426  1.472617165
#> [1299,] -0.6826126161 -1.4280029349 -1.643685851
#> [1300,] -0.1989972708  0.2535357308 -0.107443822
#> [1301,] -1.7798226001 -2.0147457854 -3.337502038

```

```

#> [1302,] -0.8790439057 -0.2633853915 -1.242317686
#> [1303,] -2.3341050945 -3.4334254409 -4.815988815
#> [1304,] -0.6786286487 -0.3300739477 -1.029413305
#> [1305,] -0.4730844258 -0.5553200511 -0.898106008
#> [1306,] 0.3373273940 0.1277520086 0.491537396
#> [1307,] -1.9993985789 -2.8336572131 -4.065770362
#> [1308,] -1.0486700795 -2.9556261303 -2.947918957
#> [1309,] -0.8507534633 -0.8165361496 -1.514015593
#> [1310,] -0.0309788597 -0.5075857366 -0.320318838
#> [1311,] 0.5972780626 -0.2614367929 0.599707088
#> [1312,] -1.0400014018 -2.5286019156 -2.700128732
#> [1313,] -0.0320293791 0.0832308677 0.006249664
#> [1314,] -1.2404138732 -1.5101990057 -2.384868019
#> [1315,] -0.7834393522 -1.4038371188 -1.756003718
#> [1316,] 1.9023450685 1.2981753300 3.092618456
#> [1317,] -0.7197385853 -2.2582697365 -2.150744491
#> [1318,] -0.0683685628 0.6264632233 0.262406657
#> [1319,] -1.3623600587 -2.3769803201 -3.017959765
#> [1320,] -0.1734283201 1.1581262794 0.426450019
#> [1321,] -0.3952145777 -1.4844987641 -1.316659179
#> [1322,] -1.6090206811 -2.5814151107 -3.438993279
#> [1323,] 1.1714357881 1.7128854637 2.411336252
#> [1324,] 2.0956541296 3.5574765317 4.587488487
#> [1325,] -0.4270125641 0.6970402957 -0.145647777
#> [1326,] 0.6425592360 0.2991661792 0.967282965
#> [1327,] -1.1266598231 -2.7373573943 -2.924040566
#> [1328,] -0.1939981850 -0.0598802169 -0.275142793
#> [1329,] -0.2462193386 -2.0763154811 -1.459298654
#> [1330,] 0.2899513455 0.5330917001 0.657406988
#> [1331,] 1.0081520718 1.0619273023 1.846470263
#> [1332,] 0.3357076805 0.8802262327 0.907109336
#> [1333,] 1.4384080148 2.1341430961 2.978025523
#> [1334,] 1.2469606776 1.3130207308 2.283606064
#> [1335,] -1.5139887343 -1.5500880846 -2.748147060
#> [1336,] -0.1441653076 -0.4796688188 -0.445967310
#> [1337,] -0.9012216066 -0.6986233253 -1.511511657
#> [1338,] -1.0473772517 -2.2456571097 -2.552303745
#> [1339,] -0.4368134374 -0.2415571294 -0.678751540
#> [1340,] -1.3795213507 -3.0104908570 -3.390931370
#> [1341,] 0.7396362855 1.4319097987 1.716961349
#> [1342,] -2.4862509587 -4.1224814684 -5.388108851
#> [1343,] -0.3421228880 -1.3343441615 -1.167125407
#> [1344,] 0.1179629861 1.1378771120 0.778571594
#> [1345,] 0.0868218698 0.5006184128 0.386087360
#> [1346,] 0.1992901658 1.7494314251 1.219371968

```



```

#> [1347,] 0.8054552716 1.7412019242 1.970680463
#> [1348,] 2.2827899711 2.7366367659 4.365311361
#> [1349,] -0.7298393011 -0.3963039130 -1.130026802
#> [1350,] -0.7518260786 0.2919779156 -0.775476267
#> [1351,] 2.2879348826 3.5095949683 4.800686401
#> [1352,] 0.0816387960 -0.6181741456 -0.241258856
#> [1353,] 1.9351515959 5.0927840607 5.239376500
#> [1354,] -0.1978539154 -2.1979860022 -1.466510003
#> [1355,] -0.4446966079 -1.1991837885 -1.220024395
#> [1356,] 0.6980543681 1.6345725157 1.777578869
#> [1357,] 0.6273634212 1.8895228263 1.830915449
#> [1358,] -0.7693939186 -1.8746459965 -1.999768564
#> [1359,] -1.9405324598 -1.7529522574 -3.392619508
#> [1360,] -0.0021848850 -1.6652577131 -0.926872817
#> [1361,] 1.0401881830 1.5261763308 2.144057414
#> [1362,] -0.1958087200 -0.5120401749 -0.528330339
#> [1363,] 0.1282993435 1.9074875435 1.218562389
#> [1364,] -0.3024467432 -0.3496057872 -0.571161495
#> [1365,] -0.1751181309 -0.2794695173 -0.373462619
#> [1366,] -0.8413965595 -0.7109363120 -1.443744236
#> [1367,] -0.9540080383 -1.5284478723 -2.037853142
#> [1368,] 0.1471338987 0.8119090084 0.634048477
#> [1369,] -1.0221612243 -1.6412609291 -2.185445298
#> [1370,] 0.5966549865 1.2557720558 1.440917513
#> [1371,] -1.0450264824 -1.7495508589 -2.274054186
#> [1372,] 0.2748253487 0.1117874789 0.404738975
#> [1373,] -0.5924470322 -0.6503074262 -1.099662760
#> [1374,] -2.3510363183 -2.7892744542 -4.479624878
#> [1375,] -0.6719950476 -0.3944511348 -1.056867983
#> [1376,] -0.6019675588 -0.7688084964 -1.177297795
#> [1377,] 1.8871260074 1.8670454246 3.389339682
#> [1378,] -0.7404139517 -1.7217773360 -1.878795430
#> [1379,] -0.5886142361 -1.2487215623 -1.426978133
#> [1380,] 0.2209642239 -0.0451875631 0.250460675
#> [1381,] -0.1657614311 -0.4432710293 -0.452697986
#> [1382,] 1.3165734606 2.7350972050 3.159604688
#> [1383,] 0.1366036453 -0.1733473488 0.074141439
#> [1384,] 1.0981280042 1.9603884937 2.457276760
#> [1385,] 1.1240970672 2.1560286624 2.598231755
#> [1386,] -0.3925680481 -1.4836885222 -1.312909360
#> [1387,] 0.8954070424 1.5740785052 1.990101986
#> [1388,] -0.6917725144 -0.8357418002 -1.326427924
#> [1389,] -1.8313575675 -2.5257828909 -3.685369289
#> [1390,] -1.8145697951 -1.9941863656 -3.369421464
#> [1391,] 1.6425368724 1.8887877426 3.096408096

```

```

#> [1392,] 0.4947479093 0.1015844197 0.673315652
#> [1393,] 0.2154859399 0.4599142513 0.523939726
#> [1394,] -0.1088959592 -0.7055427824 -0.527337745
#> [1395,] 2.1575771892 2.7663457121 4.225660797
#> [1396,] -0.7048045328 -1.7401065728 -1.844563170
#> [1397,] -2.1417045231 -2.4692944330 -4.041016884
#> [1398,] 1.5308579880 2.8095901025 3.468153562
#> [1399,] -0.4003488226 -1.0418379860 -1.077403279
#> [1400,] 0.1929320565 1.5483078950 1.099828397
#> [1401,] -0.7088231225 -1.4068614133 -1.664637158
#> [1402,] -1.7165771817 -3.1177507388 -3.870757860
#> [1403,] 0.4824514978 1.5284827016 1.449851082
#> [1404,] 1.2992763313 1.7185005669 2.573866949
#> [1405,] -1.6112986301 -0.8581626068 -2.485500844
#> [1406,] -0.0776846930 -0.2566800151 -0.239317889
#> [1407,] 1.3514298624 2.7289238602 3.199643962
#> [1408,] -0.2399365788 -1.1704133899 -0.948726449
#> [1409,] 0.8158734408 0.6443522650 1.374966069
#> [1410,] 0.8418335689 1.6514967447 1.966260839
#> [1411,] -2.4682560926 -3.2654038756 -4.890027440
#> [1412,] -0.9322618595 -2.2875071617 -2.431982226
#> [1413,] -0.2208533914 0.7820267022 0.158592403
#> [1414,] -0.2899938668 -0.7374598691 -0.770875789
#> [1415,] 0.7187406096 1.8997188523 1.950519306
#> [1416,] 0.3288443399 0.3048367009 0.579233791
#> [1417,] 0.3965651242 0.9566730592 1.025422115
#> [1418,] -1.0445000120 -1.2244371910 -1.981981587
#> [1419,] 1.0292846027 2.4041069472 2.617675607
#> [1420,] 0.0328554853 -0.8041291671 -0.405287900
#> [1421,] 0.3389355445 0.3852315705 0.636433104
#> [1422,] -1.3516290532 -2.4608343322 -3.051113885
#> [1423,] 0.3385319163 1.6483670212 1.336917078
#> [1424,] -0.4345046926 -2.0276928377 -1.667103119
#> [1425,] -0.4617726535 -1.5351510524 -1.427765641
#> [1426,] -3.1736415814 -5.1125193476 -6.794700509
#> [1427,] -0.5803574513 -1.7283195590 -1.682838899
#> [1428,] -0.0423661532 0.7366430116 0.355976301
#> [1429,] 0.5040564283 -0.3564063287 0.430757495
#> [1430,] -0.4060013652 -1.9202700035 -1.571944876
#> [1431,] 0.4503460139 0.4057831859 0.786764973
#> [1432,] -1.4510739163 -2.8779833928 -3.406619865
#> [1433,] -0.0344245369 0.8249616760 0.414892495
#> [1434,] -0.5869721901 -1.9596368782 -1.819458771
#> [1435,] 0.2249509492 -0.4973005840 0.004528242
#> [1436,] 1.6956649737 2.4696414604 3.485007249

```

```

#> [1437,] -1.7228538342 -2.4967511497 -3.533955946
#> [1438,]  0.1169033794 -0.7919726683 -0.293735543
#> [1439,]  0.1421946500 -0.8256119032 -0.280866211
#> [1440,]  0.4299428197  1.3836857526  1.304017588
#> [1441,] -0.7588126320 -1.7757678287 -1.931700672
#> [1442,]  1.6182480897  2.7585311590  3.548791661
#> [1443,]  1.0245965871  1.8839166843  2.323145930
#> [1444,]  1.4911540157  2.1746506553  3.066278709
#> [1445,]  0.6275152314  2.1345207022  1.967068316
#> [1446,]  0.7277676920  1.7786921791  1.894611157
#> [1447,] -0.1188369555 -1.0656291875 -0.739566843
#> [1448,]  1.6456682783  1.9121195738  3.113261085
#> [1449,] -0.9193398729 -1.8759088784 -2.187448958
#> [1450,]  0.9821185655  0.5834817907  1.548489784
#> [1451,]  0.3509558780  2.2573594184  1.690374788
#> [1452,]  0.7216794072  1.8775112992  1.941859665
#> [1453,] -0.5942741605 -2.4349870972 -2.092363648
#> [1454,] -0.3338573554 -0.5744436594 -0.735105493
#> [1455,]  1.9128233943  1.9185151370  3.449947335
#> [1456,]  0.6683594416  0.6409255331  1.189117428
#> [1457,] -2.4209706226 -4.5395126194 -5.538140431
#> [1458,]  0.8812295787  1.3470055271  1.846406982
#> [1459,] -0.3908375686 -0.3266651640 -0.668651966
#> [1460,] -0.8730202812 -0.9289013885 -1.604139864
#> [1461,]  1.4372881920  1.3327392929  2.531883569
#> [1462,]  1.5542187911  1.8349750270  2.956413446
#> [1463,] -0.8299611015 -1.0787457386 -1.633603286
#> [1464,]  1.6180531914  2.6108175339  3.466573749
#> [1465,] -1.2974614921 -2.1494379768 -2.810756102
#> [1466,]  0.9824365996  1.4396433328  2.024020177
#> [1467,] -0.6894297676 -0.1026176170 -0.916653340
#> [1468,] -0.7587716984 -0.0285673417 -0.962026510
#> [1469,] -0.4231070295 -1.8185014410 -1.536797999
#> [1470,]  0.8125689037  2.4630714505  2.380158381
#> [1471,]  0.7591250980  2.3376949961  2.243936362
#> [1472,] -1.9417429532 -2.0454039640 -3.556427421
#> [1473,] -2.1680859069 -5.2804783119 -5.634003285
#> [1474,] -0.7648337158 -1.2515785806 -1.648305755
#> [1475,]  0.3743263186  0.3511302114  0.661639851
#> [1476,]  0.9201905457  2.6254431545  2.604469871
#> [1477,] -1.1397377042 -2.3098299661 -2.703088594
#> [1478,]  0.7738422933  2.5905166662  2.402593846
#> [1479,]  0.2759764831  0.7448489072  0.757497004
#> [1480,] -1.2745454307 -1.5111036302 -2.427931404
#> [1481,]  1.7174431203  3.4653872739  4.064761390

```

```

#> [1482,] 0.5206919220 2.6142684559 2.100101746
#> [1483,] 2.6584966028 3.0495442020 5.007460394
#> [1484,] -0.2670978120 -0.8826232269 -0.822884461
#> [1485,] 0.4340954425 0.8219586519 0.997460801
#> [1486,] 1.2913558101 3.4406990447 3.519738271
#> [1487,] 2.6415470779 4.1061144803 5.572676951
#> [1488,] -1.4809695971 -2.0698519960 -2.995420079
#> [1489,] -1.1014091840 -2.3331160913 -2.668216536
#> [1490,] 0.8032232785 0.7638923073 1.425531294
#> [1491,] -0.1797192700 -0.2467717130 -0.361054233
#> [1492,] 0.3086311540 0.4461822668 0.632469231
#> [1493,] -0.5481668753 -0.1894768222 -0.788704616
#> [1494,] 0.2659634010 -0.0069930739 0.327770073
#> [1495,] 0.3370323551 0.2440294414 0.555698596
#> [1496,] -0.4090337382 0.0295014878 -0.493684638
#> [1497,] -1.1043820322 -2.3488772820 -2.680670418
#> [1498,] -0.4901574185 -0.4769409696 -0.875898573
#> [1499,] -0.5113229420 -1.2969760286 -1.357376674
#> [1500,] 0.2803444267 0.6884973422 0.731670981
#> [1501,] -0.5875950379 -0.6704032360 -1.104764755
#> [1502,] -0.2429261627 -1.9525718566 -1.386519600
#> [1503,] 1.4022093609 2.1990203123 2.968890678
#> [1504,] -0.0712247945 -1.6704067514 -1.015821677
#> [1505,] 0.5183536805 0.4262932642 0.882951381
#> [1506,] -0.7560250975 -1.3914474686 -1.714942965
#> [1507,] -1.8354138258 -3.1407855172 -4.031728069
#> [1508,] -0.7299036430 -1.2612244724 -1.610101733
#> [1509,] 0.2125151764 -0.3113165755 0.092234425
#> [1510,] 1.2810886874 1.3113216449 2.325220074
#> [1511,] -1.6817268837 -3.3829174927 -3.974456696
#> [1512,] 0.6290928187 0.4197822294 1.017427476
#> [1513,] -0.6222647842 -1.7026065543 -1.720826847
#> [1514,] -0.3933527337 -1.7974716051 -1.488024320
#> [1515,] 0.2826452368 0.7943723454 0.793296238
#> [1516,] -0.2373210732 -1.3137949686 -1.025035740
#> [1517,] 0.3481600452 -0.0150315065 0.425806618
#> [1518,] 1.4385680390 1.8971106992 2.846682013
#> [1519,] 0.8643629206 1.1980337241 1.742701490
#> [1520,] 0.1173659443 1.0645550025 0.737136394
#> [1521,] 1.3469406174 3.4431044094 3.590386269
#> [1522,] -0.7609930274 0.6341341862 -0.597024860
#> [1523,] 1.5373290383 2.6787347053 3.403603563
#> [1524,] 0.9821487072 1.7879415322 2.216952099
#> [1525,] 1.5229459558 2.0482365088 3.035768051
#> [1526,] 1.6653425388 2.7728841572 3.615482791

```

```

#> [1527,] 0.7636203889 1.3669470596 1.710817437
#> [1528,] -0.9977722788 -2.4860822964 -2.623873268
#> [1529,] -0.5656517995 -0.9812559451 -1.249912223
#> [1530,] -0.0777856892 -0.3168399438 -0.272830071
#> [1531,] 1.3200720149 1.2852453900 2.359360259
#> [1532,] -1.1388537351 -2.0813630994 -2.575196757
#> [1533,] 0.5387822767 0.5544219033 0.979531454
#> [1534,] 1.1756705659 2.3511222078 2.770811605
#> [1535,] -0.1066667321 -0.5153038083 -0.418983278
#> [1536,] 1.0385604863 1.9771107618 2.392277439
#> [1537,] -0.3647759200 -0.3498711041 -0.649031947
#> [1538,] -0.0269489361 -0.4526524987 -0.284807959
#> [1539,] 0.1612567128 -0.1619449812 0.111211148
#> [1540,] 0.6969890624 1.6710986821 1.796520948
#> [1541,] -1.0503742073 -2.1297119694 -2.491696189
#> [1542,] 0.4825876882 -0.2128920196 0.483630847
#> [1543,] -0.3845393242 -1.8942730079 -1.530754904
#> [1544,] 0.5928465388 1.2229998542 1.417981257
#> [1545,] 0.2397449530 0.6287188088 0.647869682
#> [1546,] -0.1795905442 -0.3544216661 -0.420634931
#> [1547,] 0.4728826671 -0.0885859009 0.540513575
#> [1548,] -0.9299459715 -1.0831419837 -1.760722111
#> [1549,] 1.3372381906 1.2914172536 2.384191256
#> [1550,] 0.0007465429 0.0696228343 0.039568682
#> [1551,] -2.0052487519 -3.7920420886 -4.604928888
#> [1552,] 0.6588455258 0.7236702680 1.223173633
#> [1553,] -0.2784564521 -0.9011566311 -0.847333717
#> [1554,] 0.9741527109 2.5602497294 2.635579969
#> [1555,] 1.4549679928 3.1303517505 3.551529571
#> [1556,] -1.0838375289 -2.0961794344 -2.514815116
#> [1557,] 1.2542334717 1.8552611665 2.593595829
#> [1558,] 0.8608602738 2.1508300637 2.267095838
#> [1559,] -1.3650888029 -3.5281489692 -3.660212856
#> [1560,] -0.2019760767 -0.4925638402 -0.525212357
#> [1561,] 1.0522731686 2.0635020260 2.457320409
#> [1562,] -0.7701995955 -0.7812462806 -1.393982163
#> [1563,] 0.7708212606 1.0771159374 1.558952639
#> [1564,] -0.8790071949 0.0383102144 -1.074843478
#> [1565,] 0.4750926491 0.3975957796 0.813079854
#> [1566,] -0.7563125940 -1.1052983383 -1.556500680
#> [1567,] -1.5198656409 -3.4433058305 -3.806132026
#> [1568,] 0.0159915849 -0.9286964570 -0.495446471
#> [1569,] 0.4381453729 1.3118075139 1.274356591
#> [1570,] -0.1326534001 -0.1345357844 -0.240077812
#> [1571,] 0.9307986784 1.9180623308 2.225131255

```

```

#> [1572,] 1.4975637766 2.5412371258 3.277711693
#> [1573,] -0.4700413989 -1.0224246730 -1.153534924
#> [1574,] -1.4544889393 -2.3086975491 -3.094948521
#> [1575,] -0.9226109680 -1.5999386758 -2.038376038
#> [1576,] -2.3857554430 -3.8793108726 -5.127843492
#> [1577,] -0.1072995096 -1.3602873020 -0.888702800
#> [1578,] -3.1012321256 -4.6155211467 -6.428594201
#> [1579,] -2.0679357174 -3.1115702625 -4.305464882
#> [1580,] 0.1041414776 0.5588082757 0.439977495
#> [1581,] -0.4892708529 -0.6677366306 -0.980676647
#> [1582,] -1.9700568751 -2.0790177765 -3.610388563
#> [1583,] 1.8377979613 2.6249330733 3.748424529
#> [1584,] 0.6047531468 1.1384003242 1.385879357
#> [1585,] -0.4079017033 -1.0292118880 -1.079814611
#> [1586,] 0.0561500338 0.2313215193 0.198391705
#> [1587,] 0.3956779454 0.8652222014 0.973564424
#> [1588,] 1.4887841359 3.4694723227 3.781895331
#> [1589,] -1.5035157910 -3.4777684442 -3.804869405
#> [1590,] -1.3239306178 -2.0673161522 -2.798188387
#> [1591,] 0.2311553993 1.0823907157 0.888927598
#> [1592,] 1.5282179540 2.0189854473 3.026109011
#> [1593,] -0.4505322888 -1.5412013014 -1.417106770
#> [1594,] -2.0109722675 -3.4079052526 -4.398886134
#> [1595,] -1.4298098966 -1.9988495788 -2.892221607
#> [1596,] -2.0739840707 -4.0910294989 -4.856565924
#> [1597,] 0.5061331361 1.4295772661 1.424493227
#> [1598,] -0.0427191971 -0.6229551512 -0.398983995
#> [1599,] 0.6584569408 1.5961117355 1.706857562
#> [1600,] 1.1613532610 1.2065189476 2.117751331
#> [1601,] 0.0160483461 0.3756648610 0.228490230
#> [1602,] -1.7915466282 -2.8072583167 -3.791932936
#> [1603,] -0.4476585245 -0.1784396947 -0.657247609
#> [1604,] 0.6596204184 0.7081250710 1.215512975
#> [1605,] -1.2841530044 -1.8999218607 -2.655689691
#> [1606,] 1.2098500382 1.0056855670 2.066771705
#> [1607,] 1.1347624812 0.9862102458 1.962331065
#> [1608,] -1.5004888426 -3.7129124132 -3.931589920
#> [1609,] 0.5515992515 1.4323226294 1.482712107
#> [1610,] -2.8431264648 -5.2250784628 -6.445020496
#> [1611,] -1.6748638550 -2.7269735542 -3.601877216
#> [1612,] -0.0793779435 -2.1653411274 -1.300656344
#> [1613,] 0.1184985172 -0.3040098930 -0.020947528
#> [1614,] -0.0549634824 -0.9288588853 -0.584016133
#> [1615,] -0.1333747811 0.6176213776 0.176438374
#> [1616,] -0.9715337727 -1.4766444149 -2.030958625

```

```

#> [1617,] 0.8950623364 1.4291081677 1.909219677
#> [1618,] -0.4778062866 0.1107824089 -0.534335095
#> [1619,] -0.5251473350 0.2875984997 -0.495242889
#> [1620,] -0.9045539021 -1.4948923952 -1.957562958
#> [1621,] -0.5661125253 -1.5686758474 -1.576480191
#> [1622,] -0.1042443988 0.1554340884 -0.043731228
#> [1623,] -0.5193270123 -1.1236311270 -1.271158423
#> [1624,] 1.3943331218 2.6212526387 3.193390432
#> [1625,] -0.1399608296 -0.4033636280 -0.398378225
#> [1626,] 1.7861376941 2.5451507588 3.639729385
#> [1627,] -1.5286228342 -2.0743458589 -3.057336599
#> [1628,] 1.1085906978 1.7706400345 2.365021075
#> [1629,] -0.3708360734 -1.8687416188 -1.499498378
#> [1630,] 0.5503181279 1.3625376766 1.442386845
#> [1631,] 0.0343233842 -1.2077915427 -0.627473179
#> [1632,] -1.9810082924 -3.0371355655 -4.155760016
#> [1633,] -1.1320542319 -1.8305090011 -2.427504393
#> [1634,] 0.2756915180 0.1947107785 0.451838030
#> [1635,] 0.9663007939 1.1482035354 1.842162270
#> [1636,] 0.0754433536 1.2919176837 0.811036548
#> [1637,] -0.5337098743 -0.2469062203 -0.802547942
#> [1638,] 0.9643505530 2.8147457854 2.764591534
#> [1639,] 0.4190997225 0.1925303549 0.629455092
#> [1640,] 1.5740072038 2.5227195704 3.362758620
#> [1641,] 0.3228064095 0.5600282002 0.713325212
#> [1642,] -0.0515892648 -0.6700489275 -0.436179862
#> [1643,] 1.9668535648 3.4178412813 4.349385092
#> [1644,] 0.2398479273 1.0745370990 0.895408575
#> [1645,] -0.1497097048 -0.0251751449 -0.200656100
#> [1646,] -1.5137309788 -3.9567588950 -4.083427182
#> [1647,] -0.7296384086 -0.8557049725 -1.384724647
#> [1648,] 0.4225116017 0.4339644866 0.767695471
#> [1649,] 0.3840132242 -0.0336544084 0.460179871
#> [1650,] 1.3369746709 1.9152011162 2.730036579
#> [1651,] 1.3987319132 1.9039831649 2.800821108
#> [1652,] -0.4280787475 -0.5664065143 -0.848137368
#> [1653,] -1.1323800639 -0.9208984005 -1.923114899
#> [1654,] 2.1146155144 2.8193135607 4.201483404
#> [1655,] -0.6751979267 -0.9831472674 -1.387563614
#> [1656,] 0.1856591530 0.0274517169 0.246747731
#> [1657,] -0.1092062728 1.1642704533 0.509943361
#> [1658,] -0.1853338125 -0.5455418040 -0.533860345
#> [1659,] 0.9738604997 1.7121731417 2.164568589
#> [1660,] -0.8726002906 -1.8173140269 -2.096647962
#> [1661,] 0.0606120800 0.9206991405 0.586531503

```

```

#> [1662,] -1.6382911417 -3.3162312809 -3.883285156
#> [1663,]  0.4585487530  2.1999496822  1.792680909
#> [1664,]  0.1291675285 -0.8619890604 -0.317298565
#> [1665,] -0.3683920921  0.0686939178 -0.421255177
#> [1666,] -2.1651053353 -3.0974579006 -4.418801644
#> [1667,]  0.5002932153  0.8920274278  1.118893310
#> [1668,] -1.8992569328 -3.4513255882 -4.283675859
#> [1669,]  0.1130673086  0.3073939416  0.311583395
#> [1670,] -0.5677336285 -1.7873407093 -1.699851517
#> [1671,] -0.1518588662 -0.8007401113 -0.633742145
#> [1672,]  0.9709028503  1.3325218481  1.950189887
#> [1673,]  1.4558429107  3.3907749480  3.697144547
#> [1674,]  1.1659961691  3.0841705705  3.165558980
#> [1675,]  1.7343319419  3.5529389971  4.134408947
#> [1676,]  0.7333364532  0.9022436753  1.415163065
#> [1677,] -0.4761235135 -0.8073249232 -1.041747842
#> [1678,]  0.4758310165 -0.1811185516  0.492838359
#> [1679,] -0.1413080424  0.2835068084 -0.018873838
#> [1680,]  0.1720433058  0.5481883188  0.518756059
#> [1681,] -0.3533062986  0.3821914658 -0.228465486
#> [1682,]  0.9065235371  0.6118091709  1.469944836
#> [1683,] -0.2179363491 -0.5622306827 -0.583776672
#> [1684,] -0.5388279234 -0.5139101635 -0.957106055
#> [1685,]  0.6509128145  0.4847222842  1.080675577
#> [1686,]  2.0846561677  3.0367622132  4.284799607
#> [1687,] -0.5278334797 -1.8072699981 -1.661156766
#> [1688,]  1.0455764150  1.5645484192  2.172071332
#> [1689,] -0.2243143766 -0.3603631016 -0.479701886
#> [1690,]  0.6880236168 -0.2983344971  0.692388262
#> [1691,] -1.6612698914 -2.8158176003 -3.634230547
#> [1692,] -1.4632973668 -1.5346354416 -2.676360389
#> [1693,] -1.0942159957 -1.3228133691 -2.098571065
#> [1694,]  1.5270363617  2.0024470582  3.015457476
#> [1695,] -0.2101366199 -0.1337316667 -0.336251555
#> [1696,] -1.9593464139 -2.7814857167 -3.986873133
#> [1697,]  1.4954775039  2.1499103443  3.057940174
#> [1698,] -2.1014185246 -3.7354513708 -4.693445154
#> [1699,] -1.8276437336 -2.9063268364 -3.891924171
#> [1700,] -0.7970571025 -1.6942920706 -1.934175112
#> [1701,] -0.8985709086 -0.3989424180 -1.341895935
#> [1702,] -0.8700070786 -1.3731432317 -1.846918085
#> [1703,]  0.5870206156  0.5667608164  1.046531259
#> [1704,]  2.5678987030  4.3761232130  5.630682471
#> [1705,]  0.0780653881  0.0608322926  0.131105322
#> [1706,] -2.0843878743 -2.3268728241 -3.890506162

```



```

#> [1707,] 0.7901831165 1.0183875630 1.550504689
#> [1708,] -1.1302641044 -2.8530882220 -2.992760795
#> [1709,] 0.2045053391 0.6102086735 0.593654252
#> [1710,] -0.6533578897 -1.1511565598 -1.453567657
#> [1711,] -0.7088657471 -1.1703239075 -1.533421898
#> [1712,] -0.6825380792 -1.8161127950 -1.858977628
#> [1713,] -0.4430819118 0.1234832443 -0.483986076
#> [1714,] 0.0510733117 0.4376573742 0.306568897
#> [1715,] -1.4484575468 -2.7149386776 -3.312874315
#> [1716,] -0.9788708701 -1.2600350705 -1.919898719
#> [1717,] -0.1823271520 0.3217920769 -0.048777110
#> [1718,] -0.5872543562 -1.2308984002 -1.415391281
#> [1719,] 0.2389580378 0.0357811428 0.317832835
#> [1720,] -0.5629342979 -0.5842735758 -1.026214960
#> [1721,] -2.3563295656 -3.8064409416 -5.050710263
#> [1722,] 2.7866297145 3.5541239457 5.447260403
#> [1723,] 1.2620988669 2.9670955409 3.220425344
#> [1724,] -1.0522277585 -1.4418392942 -2.112266995
#> [1725,] 0.2720923463 0.3214980732 0.517711576
#> [1726,] 0.0876552114 0.2861055245 0.268080848
#> [1727,] 1.7613138724 3.5863241897 4.186582248
#> [1728,] -0.0651366593 0.4319625909 0.158497067
#> [1729,] 1.6600124361 2.5799855531 3.501785613
#> [1730,] 1.1175400126 1.6149455491 2.289776767
#> [1731,] 1.1227967332 1.5940944233 2.284760289
#> [1732,] -0.1725680167 -0.9268786200 -0.729567625
#> [1733,] -1.6944928306 -2.9014729024 -3.723193981
#> [1734,] -1.9321165995 -2.9429399917 -4.042518472
#> [1735,] -0.9007396996 -2.3091364898 -2.404678107
#> [1736,] -0.4628903911 -0.9490581613 -1.103902421
#> [1737,] 0.4225677607 0.7753499670 0.957220148
#> [1738,] -0.6468562123 -1.1219477314 -1.429250521
#> [1739,] 1.8368647115 1.6220057066 3.190678087
#> [1740,] 0.2168208207 0.0205019607 0.281748871
#> [1741,] -0.7643198577 -1.7406061842 -1.919054830
#> [1742,] 0.4359526657 0.3935723384 0.762040252
#> [1743,] -1.6920726142 -2.5364521084 -3.517604762
#> [1744,] 1.2079607561 3.3991732785 3.392701278
#> [1745,] -0.9089629911 -0.8519235428 -1.606240208
#> [1746,] -0.4835079169 0.5009611515 -0.324912046
#> [1747,] -0.0256937393 -1.0909868633 -0.637491601
#> [1748,] 0.4630988777 2.0987428747 1.742189281
#> [1749,] -0.9018780330 -2.3330334490 -2.419359397
#> [1750,] 2.8573205083 3.6308544031 5.577992573
#> [1751,] -0.4417050893 -0.3615535414 -0.751444315

```

```

#> [1752,] -0.1569483792  0.0155299645 -0.187092948
#> [1753,] -0.2742427603  0.3228710025 -0.162795240
#> [1754,] -0.9035724938 -2.2851817968 -2.394916692
#> [1755,]  0.4783859098 -0.7402760074  0.185715282
#> [1756,] -0.9769851708 -2.2222134934 -2.451516031
#> [1757,] -0.0973385848  0.5585506479  0.188592994
#> [1758,]  0.5811100654  2.2983440779  2.000117136
#> [1759,]  0.2266760302  0.4966823734  0.558298309
#> [1760,]  1.0240955571  2.5235316287  2.677480671
#> [1761,]  0.3371786358  1.6523477638  1.337438710
#> [1762,]  0.3752230114  0.4491223960  0.717139568
#> [1763,] -2.5452546873 -4.2316744010 -5.522282803
#> [1764,] -1.6008979677 -2.5632744408 -3.418797109
#> [1765,]  0.4741647540  0.3149193341  0.766040823
#> [1766,]  1.3486791987  1.2405266832  2.370215824
#> [1767,] -2.9364069896 -4.9605462183 -6.414535088
#> [1768,] -0.0423949131  0.1090463853  0.007650586
#> [1769,] -0.3839720500 -0.7779880491 -0.910556109
#> [1770,]  1.1170272865  1.6435061640  2.304987354
#> [1771,] -0.7888922187 -1.0984114974 -1.593304899
#> [1772,] -1.3444986061 -2.9040862193 -3.288208603
#> [1773,] -0.0081781867  0.7564130323  0.409579531
#> [1774,] -1.0015309247 -1.5538604768 -2.111216143
#> [1775,] -0.4492938580 -0.5629554053 -0.872676957
#> [1776,]  1.4139538517  2.3531959786  3.069096858
#> [1777,] -1.6635440395 -1.9493764830 -3.156227819
#> [1778,] -3.0552098325 -5.3353856334 -6.770699991
#> [1779,]  0.6677842432  1.2169845734  1.508088817
#> [1780,]  0.0632537085 -0.0027454755  0.077352460
#> [1781,] -3.2114514922 -2.8311328790 -5.575774723
#> [1782,] -1.3735571440 -1.3969065915 -2.488022416
#> [1783,]  0.5151640419  1.0050891824  1.200181468
#> [1784,] -0.2845453570 -0.1712473586 -0.449857371
#> [1785,]  0.5787833941  0.1377046188  0.798151385
#> [1786,]  0.2473525820  1.2717637841  1.014219279
#> [1787,] -1.6570078159 -1.6744310860 -2.995494097
#> [1788,]  0.3747998199  0.3345441105  0.653025706
#> [1789,] -0.1146240680 -0.1043992491 -0.200871087
#> [1790,]  0.1621688699  0.6306082512  0.552182450
#> [1791,] -0.1654430641  0.0801474499 -0.161825647
#> [1792,] -0.3703257539  1.0226791430  0.105755445
#> [1793,] -0.4798777809 -0.8293185810 -1.058634896
#> [1794,] -1.0704910799 -0.9204632712 -1.845699120
#> [1795,]  0.9551627330  0.5627101380  1.503349013
#> [1796,]  0.8307200470  0.5531267656  1.342853152

```

```

#> [1797,] -0.1545311993 -0.0611832962 -0.226651422
#> [1798,]  3.1070005035  4.3136132897  6.268241030
#> [1799,] -1.6016552388 -1.5343400638 -2.848725911
#> [1800,] -0.4887034952 -0.7381568453 -1.019049435
#> [1801,] -1.6033441161 -3.3412178718 -3.853573440
#> [1802,]  1.1268868173  1.6788388151  2.336890130
#> [1803,] -0.2243421050 -0.2905431336 -0.440989304
#> [1804,]  0.3028433307  0.0949991233  0.430359993
#> [1805,]  0.5014187241  1.2437145629  1.315468433
#> [1806,] -0.9063995603 -2.4809835092 -2.507103739
#> [1807,] -1.1812649945 -2.6028754392 -2.917500247
#> [1808,] -2.5050337825 -4.8395704082 -5.809484987
#> [1809,]  1.9825736497  2.3139100900  3.756352125
#> [1810,] -0.2939385617  0.3995547094 -0.144799256
#> [1811,] -0.2110533838  1.6282207881  0.640415102
#> [1812,] -1.3429719015 -3.6344958167 -3.691651579
#> [1813,] -2.2784560012 -2.5925972442 -4.279971085
#> [1814,]  3.1334261106  5.3482738958  6.875386541
#> [1815,] -0.5810052004 -1.2911532262 -1.441037617
#> [1816,]  0.7510989704  0.9133269723  1.443463327
#> [1817,]  1.5669411840  3.2661033768  3.766494326
#> [1818,] -0.0912354224 -0.0169415743 -0.123170575
#> [1819,]  1.2502766519  1.8902537965  2.608081200
#> [1820,] -0.8927118014 -2.5041347442 -2.502883348
#> [1821,]  0.1293127762  0.4948008373  0.435844143
#> [1822,]  0.4418705786 -0.3876950374  0.335849085
#> [1823,]  0.4721941393  0.9591511136  1.121105171
#> [1824,]  0.8425348398  1.3566809989  1.803524914
#> [1825,] -0.0111211415  0.4907079169  0.258454512
#> [1826,] -0.5686039815 -0.1930386368 -0.816165929
#> [1827,]  0.6886104981  0.3505430395  1.053219956
#> [1828,]  0.0571348927 -0.5233484082 -0.219190409
#> [1829,]  1.1534395839  2.0189108561  2.558726633
#> [1830,]  1.2789283099  3.3720559449  3.466147386
#> [1831,]  0.2508858367  0.5379767839  0.611404112
#> [1832,]  0.1956793876  0.4869938065  0.514269378
#> [1833,]  1.9923489781  2.7830466311  4.028892899
#> [1834,]  0.8591299113  1.8792418806  2.114218040
#> [1835,]  0.7790088970  0.9153192152  1.479372048
#> [1836,]  1.5830904923  1.5264351571  2.821189158
#> [1837,]  0.0844656638  0.8772032744  0.592138051
#> [1838,] -0.2360125913 -1.1157721982 -0.913509743
#> [1839,]  2.5187018347  3.2066539994  4.920328529
#> [1840,]  0.4230059730  1.8051016498  1.529235660
#> [1841,] -0.4582152348  0.2091544444 -0.455313092

```

```

#> [1842,] -0.9398397293 -0.6353473392 -1.524552146
#> [1843,] -0.0439961286 -0.8646966349 -0.534732704
#> [1844,]  0.9403456591  2.0663538998  2.319331758
#> [1845,] -0.4874125497 -2.1480844609 -1.799890448
#> [1846,] -0.1674809119 -0.4987211606 -0.485614645
#> [1847,]  1.8733638169  4.0914031778  4.606603935
#> [1848,]  0.4779934982  1.2307244259  1.279048672
#> [1849,] -2.6979110424 -5.7783039547 -6.570956812
#> [1850,] -1.2259355207 -1.6055542784 -2.419731993
#> [1851,] -0.2099586026 -0.6810913136 -0.639791258
#> [1852,]  0.9311826257  2.1615378980  2.360728776
#> [1853,] -0.5624517744 -0.7955985037 -1.142889750
#> [1854,] -1.3163331240 -2.9911191508 -3.301386454
#> [1855,]  0.7100177365  1.8419869504  1.907603273
#> [1856,]  0.4214914935  0.6767700979  0.901170365
#> [1857,]  1.1459595616  1.9020531825  2.484548081
#> [1858,] -0.7441768045 -1.2611666514 -1.627867986
#> [1859,]  0.0839376591  0.3511879775  0.299563173
#> [1860,] -1.2807586265 -1.6750744288 -2.526676061
#> [1861,]  1.2672101817  2.3601113337  2.889948227
#> [1862,] -1.2040096667 -1.8663293134 -2.537110127
#> [1863,] -1.1901616566 -2.2424487969 -2.728572507
#> [1864,]  1.5040364637  2.2230162204  3.109183723
#> [1865,] -2.3227460553 -3.5274603436 -4.854009759
#> [1866,] -0.5655764285 -1.2607198197 -1.404908987
#> [1867,] -1.0789182891 -2.4237347895 -2.690460432
#> [1868,]  2.3087781252  3.6796135729  4.921030707
#> [1869,] -0.3822216415 -0.6144380339 -0.817609975
#> [1870,] -0.1147729352  0.0009990712 -0.142565067
#> [1871,]  2.7617619984  4.3646234675  5.866044169
#> [1872,] -0.1315989215 -0.9503950900 -0.691530655
#> [1873,] -0.6132054366 -1.4425725795 -1.565222056
#> [1874,] -1.6971156712 -3.6368247127 -4.134554076
#> [1875,]  1.4232946192  1.4601300237  2.585130391
#> [1876,]  0.5720290234  0.5422384545  1.014228165
#> [1877,]  0.7453275097  1.8512830801  1.956792803
#> [1878,] -0.1594826389 -0.1453840078 -0.279553635
#> [1879,] -0.7366953845 -1.5817360486 -1.796441402
#> [1880,] -0.9783016023 -1.8002675611 -2.218995267
#> [1881,]  1.3432273158  3.1145795251  3.403438301
#> [1882,] -0.3234063650 -1.1018050604 -1.014736819
#> [1883,]  1.6118419582  2.1595474037  3.208392440
#> [1884,]  2.0815284786  3.9624875674  4.794638256
#> [1885,] -1.0436507494 -2.5775922668 -2.731866988
#> [1886,]  0.6382362990  1.6312159717  1.701124216

```

```

#> [1887,] 1.5989853733 3.1449479908 3.739216610
#> [1888,] 1.0488052880 1.8359051125 2.326689274
#> [1889,] -0.9014846777 -1.6589415254 -2.044776096
#> [1890,] 0.8753604491 1.8830284686 2.136558588
#> [1891,] -0.9981645511 -2.8757262520 -2.840598506
#> [1892,] -0.5652519531 -0.6472706565 -1.064065771
#> [1893,] -0.4819626837 -0.4219036460 -0.835136496
#> [1894,] 1.6365565825 2.1016734993 3.207093478
#> [1895,] -1.5497925068 -2.5528692043 -3.349295171
#> [1896,] 0.4361680636 0.9573131920 1.075161420
#> [1897,] -1.4141200474 -3.0493192401 -3.455623366
#> [1898,] 2.6417504474 4.5135749570 5.799054053
#> [1899,] -0.6438847214 -1.2173762461 -1.478503962
#> [1900,] -0.3546585951 -0.8698091026 -0.924959669
#> [1901,] -0.6663461794 -1.0158783197 -1.394690029
#> [1902,] 1.0986852011 2.6753961418 2.854770882
#> [1903,] -2.6999897477 -4.4996867100 -5.863969877
#> [1904,] 1.4179886928 1.8982189796 2.821635037
#> [1905,] 1.0004984605 2.0133219662 2.364910571
#> [1906,] 0.5859835697 2.3372981735 2.027812188
#> [1907,] -1.2976820444 -2.1407565824 -2.806213316
#> [1908,] -1.6182362558 -2.7149975688 -3.524617584
#> [1909,] 1.1277678174 1.2552811132 2.102931928
#> [1910,] 0.3187590816 2.6958385483 1.893563598
#> [1911,] 1.7645285988 2.7654463265 3.735038101
#> [1912,] 1.3518239190 2.3708270586 3.001406611
#> [1913,] -0.4573832794 -0.6753733285 -0.945151541
#> [1914,] -1.9601437192 -3.0871689874 -4.157508773
#> [1915,] 0.5941338126 1.2612295310 1.440802331
#> [1916,] -0.6392621807 -1.4571339821 -1.605795254
#> [1917,] -0.0025473710 -0.7843429863 -0.438454038
#> [1918,] 0.6450714654 -0.4773425809 0.539485813
#> [1919,] 2.3371559750 3.3431030776 4.769668071
#> [1920,] 0.2848228592 0.9618618502 0.888961352
#> [1921,] 0.9340463810 1.7836201549 2.154571296
#> [1922,] -0.8355998094 -1.5421467302 -1.897802788
#> [1923,] -0.4705125813 0.7257413573 -0.183963524
#> [1924,] -0.8898383961 -0.5007439843 -1.387502277
#> [1925,] -0.8810682445 -2.0973088481 -2.262592731
#> [1926,] 0.4817783814 1.2809993269 1.311668809
#> [1927,] -1.3627994019 -2.2367484724 -2.940684812
#> [1928,] -0.5758386857 -1.6183237277 -1.616161009
#> [1929,] 1.5030167442 2.4205224044 3.217519816
#> [1930,] 1.3943256434 2.8253683133 3.306656760
#> [1931,] -1.8580452372 -2.0927228825 -3.478318095

```

```

#> [1932,] -0.0940954789 -0.5294293502 -0.411146266
#> [1933,]  1.4105193090  2.7051280985  3.260121646
#> [1934,]  1.0412144260  1.7189607530  2.252324401
#> [1935,]  0.5201290858  1.1680215481  1.296793418
#> [1936,] -0.8965304912  0.5141989051 -0.832596373
#> [1937,]  0.0914898111 -0.1786526080  0.014941211
#> [1938,] -0.4526634103 -0.6172079324 -0.906986601
#> [1939,] -1.5882205664 -1.8762181710 -3.021701184
#> [1940,] -0.3762646335 -1.7804747333 -1.457283256
#> [1941,]  0.3294114223 -0.4320841439  0.170980715
#> [1942,] -1.4550073632 -2.3018995818 -3.091822397
#> [1943,]  0.5847090563  0.4644378058  0.986863804
#> [1944,]  0.5248908847  0.9619051486  1.188345312
#> [1945,]  2.9921397714  4.3420417910  6.140788668
#> [1946,]  0.6818771682  0.6588454275  1.215918549
#> [1947,] -2.1563470567 -4.3692052754 -5.113646797
#> [1948,] -0.0473240222 -0.3007198958 -0.225899042
#> [1949,] -0.8200916053 -0.4088734587 -1.249545156
#> [1950,] -0.7382778636 -1.5145161632 -1.761110499
#> [1951,]  1.3373956043  1.8220264204  2.678853420
#> [1952,] -0.0518376437 -0.0595946461 -0.097713018
#> [1953,]  0.8814168360  0.7251031665  1.501510716
#> [1954,]  0.6305157915  1.7803202243  1.774243518
#> [1955,] -0.7202746012  0.4816179240 -0.630889953
#> [1956,] -1.0361804261 -1.8915161823 -2.341808144
#> [1957,]  0.3688007872  0.6420287911  0.816186158
#> [1958,] -1.9418810691 -2.7794637414 -3.963972092
#> [1959,] -1.6925053520 -2.7624687854 -3.643574170
#> [1960,] -0.4648446661 -0.8144243504 -1.031623234
#> [1961,]  0.9655883361  1.9043434257  2.260899831
#> [1962,]  0.5484334225  0.6763047220  1.059206097
#> [1963,]  1.0050234460  0.7628657589  1.676602295
#> [1964,]  0.5120932348  0.2378766561  0.770581404
#> [1965,]  0.9224020697  1.2721791674  1.856222742
#> [1966,] -0.7094751983 -1.1127295342 -1.502219405
#> [1967,]  1.7895877759  2.7457187206  3.755338388
#> [1968,]  0.0786026978  0.7314288647  0.503928357
#> [1969,]  0.7772055756  0.8504219973  1.441108104
#> [1970,]  0.2710673448 -0.8982168409 -0.160457290
#> [1971,] -0.4171164832 -0.9298318890 -1.036153515
#> [1972,] -1.1959382593 -1.8569432149 -2.521836355
#> [1973,]  0.4758547109 -0.5867699366  0.267748371
#> [1974,] -1.2883162260 -2.1426100354 -2.795562920
#> [1975,]  2.2732272943  3.9452012782  5.024089603
#> [1976,]  0.0785529502 -0.3064287070 -0.072101176

```

```

#> [1977,] 0.4934446989 1.1121409073 1.232507116
#> [1978,] -0.0402215288 0.3195711601 0.127193188
#> [1979,] 0.4589334637 -0.2557387302 0.430356381
#> [1980,] -2.2909016877 -3.4800977305 -4.788016215
#> [1981,] -1.2223055334 -1.8089908684 -2.528104263
#> [1982,] 1.1151221149 3.0307656681 3.072482587
#> [1983,] -1.3010319048 -1.1529093691 -2.262176679
#> [1984,] -0.1334747525 -0.9676038005 -0.703419892
#> [1985,] 1.4680304208 1.8674672365 2.866970122
#> [1986,] -0.4978886836 -0.0819108430 -0.666314122
#> [1987,] -0.1237070735 -0.6287887302 -0.503211617
#> [1988,] -0.6802352315 -0.2153291789 -0.967738138
#> [1989,] 0.6176856230 -0.3646057815 0.567900430
#> [1990,] 0.0812899141 -1.0413102714 -0.476516738
#> [1991,] 0.9248461305 1.8380774262 2.173320276
#> [1992,] 0.2569196942 0.0320947081 0.338184838
#> [1993,] -0.0128656109 -0.1278183657 -0.086976996
#> [1994,] 0.6139160102 2.5592488894 2.185816726
#> [1995,] -1.4725645194 -2.8920383396 -3.441218116
#> [1996,] -0.7853617647 -0.4956907166 -1.254417696
#> [1997,] -1.2861779796 -2.1833798348 -2.815522102
#> [1998,] 0.6426232753 0.6075870887 1.138523513
#> [1999,] 0.2599590711 0.0369629364 0.344676542
#> [2000,] -1.0591727824 -3.1626574405 -3.075909322
#>
#> [[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

```


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/>