

stat135_hw2_code

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###QUESTION 7 CODE

#session view hours input for question 7.

```
B_view_hours <- c(1.17, 1.417, 0.419, 1.426, 1.203, 0.136, 0.57,
0.844, 0.78, 1.014, 0.75, 0.075, 0.318, 0.584, 1.632, 1.738,
0.624, 0.609, 0.72, 1.504, 1.583, 0.429, 0.866, 1.214, 0.947,
1.546, 1.148, 0.345, 1.384, 0.884, 1.648, 0.151, 0.143, 1.203,
0.699, 1.516, 2.254, 0.297, 0.767, 1.147, 0.569, 3.088, 0.617,
1.575, 1.211, 0.917, 0.025, 0.979, 0.277, 2.751, 3.859, 1.314,
1.073, 0.424, 0.119, 0.726, 0.322, 0.854, 0.844, 0.238, 0.991,
1.366, 1.349, 0.387, 0.957, 0.398, 0.993, 0.678, 0.431, 0.8,
0.719, 0.173, 0.399, 0.201, 2.276, 0.702, 1.911, 0.481, 0.541,
1.051, 0.82, 1.285, 0.322, 2.134, 0.775, 1.565, 2.399, 0.576,
0.262, 0.612, 0.932, 0.747, 0.936, 1.748, 0.81, 1.225, 1.277,
1.386, 0.431, 0.508, 0.146, 0.591, 0.97, 1.104, 0.418, 1.501,
0.702, 0.108, 0.51, 2.014, 0.426, 0.87, 1.36, 0.864, 0.412,
0.802, 0.215, 0.243, 0.658, 0.671, 1.31, 0.13, 0.223, 1.294,
1.601, 0.966, 0.415, 0.529, 0.481, 0.416, 1.347, 1.345, 0.192,
1.213, 0.938, 0.317, 0.341, 0.78, 1.945, 1.004, 1.407, 0.579,
0.621, 0.842, 0.307, 0.227, 0.842, 0.836, 1.386, 0.841, 1.201,
0.438, 1.425, 2.186, 0.327, 0.197, 0.436, 0.606, 1.797, 0.809,
0.587, 2.253, 1.294, 0.885, 0.82, 1.235, 0.31, 2.275, 1.521,
0.719, 2.741, 0.256, 0.614, 0.747, 1.367, 1.333, 2.02, 0.769,
1.636, 0.864, 0.131, 0.648, 0.846, 0.304, 0.751, 1.814, 0.838,
0.82, 0.935, 0.58, 0.907, 0.832, 1.161, 0.517, 0.775, 1.482,
0.458, 1.449, 3.422, 2.058)
```

#specifying our log-likelihood function.

```
ll_function <- function(a, b, df){
  n = length(df)
  log_likelihood_fn <- n*a*log(b) - n*log(gamma(a)) + (a - 1)*sum(log(df)) - b*sum(df)
  return(log_likelihood_fn)
}
ll_function(2, 2, B_view_hours)
```

```
## [1] -163.1577
```

#we expect alpha and beta hat mle to be in range 1-3, so set up a grid search over that area

```
alpha <- seq(1, 3, length.out = 200)
beta <- seq(1, 3, length.out = 200)
```

```
#then actually execute the grid search.
```

```
ll_values <- matrix(NA, 200, 200)
for(x in 1:200){
  for(y in 1:200){
    ll_values[x, y] <- ll_function(alpha[x], beta[y], B_view_hours)
  }
}
```

```
#find the maximum likelihood and associated alpha/beta params
max(ll_values)
```

```
## [1] -162.3292
```

```
max_matrix <- which(ll_values == max(ll_values), arr.ind = TRUE)
max_matrix
```

```
##      row col
## [1,] 118 129
```

```
#hence, alpha[118] is alpha_mle, beta[129] is beta_mle
alpha[118]
```

```
## [1] 2.175879
```

```
beta[129]
```

```
## [1] 2.286432
```

```
#compute fisher information matrix (as defined by lecture 5, slide 7 since Design B has population dist
fisher_matrix = matrix(NA, ncol = 2, nrow = 2)
fisher_matrix[1, 1] <- trigamma(alpha[118])
fisher_matrix[1, 2] <- -1/beta[129]
fisher_matrix[2, 1] <- -1/beta[129]
fisher_matrix[2, 2] <- alpha[118]/(beta[129]*beta[129])
```

```
#compute confidence intervals (first for alpha, then for beta)
alpha_ci <- c(alpha[118] - (1.96/(sqrt(200 * (fisher_matrix[1,1] - 1/alpha[118])))), alpha[118] + (1.96
beta_ci <- c(beta[129] - ((1.96*sqrt(beta[129]^2 * fisher_matrix[1,1]))/(sqrt(200 * (alpha[118]*fisher_m
alpha_ci
```

```
## [1] 1.777758 2.574000
```

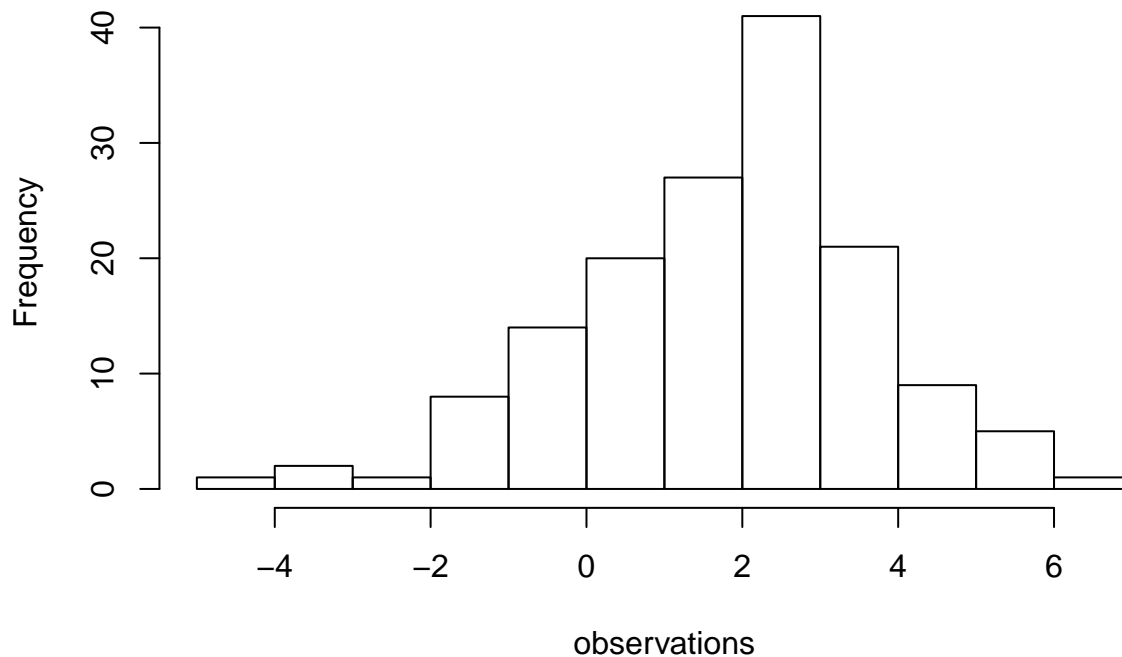
```
beta_ci
```

```
## [1] 1.816150 2.756714
```

```
###Question 8 CODE
```

```
#(1): generating 150 iid observations from  $N(2,4)$  population and plotting in a histogram
#use rnorm function to generate observations (mean = 2, variance = 4, sd = 2)
set.seed(99)
observations <- rnorm(n=150, mean=2, sd=2)
hist(x=observations)
```

Histogram of observations



```
#(2): calculate mm estimate for mu and sigma [as seen in question, this is equal to the sample mean and
mean(observations)
```

```
## [1] 1.793418
```

```
var(observations)
```

```
## [1] 3.624037
```

```
sd(observations)
```

```
## [1] 1.90369
```

```
observations
```

```
## [1] 2.4279250 2.9593163 2.1756574 2.8877170 1.2743242 2.2453481
## [7] 0.2723096 2.9792485 1.2717662 -0.5884840 0.5084619 3.8431007
```

```
## [13] 3.5001087 -3.0171080 -4.0818682 2.0005316 1.2119620 -1.4900553
## [19] 2.9972629 2.5419076 4.1978430 3.5050269 1.8811666 1.3108624
## [25] 2.4453366 3.1035727 3.3672856 0.9082412 -0.7348723 4.8001037
## [31] 4.7461079 2.9005131 1.7074123 2.2561945 -2.5894419 -0.7331378
## [37] 1.6050409 2.1361716 2.1810068 2.6455199 2.2659573 -1.3585286
## [43] 1.4430408 -1.1048220 -0.7593985 -0.7141132 0.1577256 0.2663645
## [49] 5.3132888 1.6898406 -1.1531049 3.2481652 2.6604414 1.2037555
## [55] -0.1627939 1.8461559 0.9489268 2.7825793 0.6390935 0.5026061
## [61] 1.6741642 1.7715697 1.1106813 2.5139183 -0.2002743 -0.6731518
## [67] 2.4097972 2.0705747 1.1221750 2.8008117 3.1703426 2.9642571
## [73] 0.3903323 2.6061544 0.3476485 2.2828578 3.4807144 4.7700931
## [79] 0.7328450 2.4771773 2.0732230 2.5770521 -0.2119427 3.7844770
## [85] 4.3629383 2.7023359 2.1260134 4.7885234 1.9749842 3.3561529
## [91] 1.8877068 2.2719877 5.7291520 4.2974167 0.1200279 1.8762275
## [97] 1.2478190 2.4193777 3.4109172 3.3041769 -1.0501388 0.9980166
## [103] -0.4263625 0.7394465 -0.8949710 1.6661832 5.1778530 1.5392853
## [109] 0.8532571 3.1254651 1.5101677 6.0763025 1.4975963 -3.9973454
## [115] -0.3894688 3.9328327 -0.3738622 0.3007120 1.1820212 -1.6554779
## [121] 3.1886408 2.7587026 0.1120980 -1.3260669 2.0579543 3.5879505
## [127] 2.1250192 4.8220264 5.0028403 -0.4889804 2.8174795 1.5667266
## [133] 3.6509436 3.8457913 1.1325330 2.1405147 3.8923095 2.8242548
## [139] -1.6883563 2.2217504 3.0701403 5.2430815 2.6072358 3.5196614
## [145] 0.9211026 0.6241066 1.4889882 2.5997144 0.7136736 4.9735224
```

```
##(3) (b) start from N(1.793418, 3.624037), generate 500 samples each of size 100
simulations <- replicate(n=500, rnorm(n=100, mean = 1.793418, sd = 1.90369))
#[each column represents a sample of size 100, 500 columns in total.]
simulations
```

```
##           [,1]      [,2]      [,3]      [,4]      [,5]      [,6]
## [1,] -1.41815216 1.27251487 1.38817802 0.74374504 1.24320634 0.42780798
## [2,] 0.73453666 1.57750463 1.08723400 -0.16280512 3.07387488 1.71060671
## [3,] 4.38225812 0.05956141 3.35984510 6.34331057 -2.17516480 0.61876596
## [4,] 4.13585429 2.49572031 -1.96812275 1.31692234 2.03961881 1.99526721
## [5,] 2.84946177 3.95983041 -2.36185555 6.00742404 1.35784313 4.51520929
## [6,] 0.38186798 3.35014005 0.49026591 5.27020743 2.37032344 1.31040329
## [7,] 1.93415920 0.45508521 4.01839716 4.76427174 2.12585690 5.27937639
## [8,] 2.75864037 3.94838008 2.23660451 1.46315422 2.26055564 3.91497309
## [9,] 5.77517896 1.39152615 0.95943961 2.77626033 1.44151653 0.62300117
## [10,] 3.65457813 2.35528272 -0.67534385 1.99857750 2.52586918 4.12860806
## [11,] 1.57617710 -2.11309249 2.93465684 0.18632750 2.55962617 3.84871197
## [12,] 0.27822873 1.73969109 -0.88235494 1.64263344 -2.37403516 3.26518259
## [13,] 4.17407142 4.04640592 -0.19263839 -2.99148591 1.35276702 2.38400014
## [14,] 1.28069940 0.29313644 1.29044450 0.68788859 1.24706300 -0.33592118
## [15,] -1.33900871 0.03375195 3.51603972 0.69457640 4.13006995 0.57392753
## [16,] -0.15061600 2.66304452 0.12467706 4.13603635 -1.63264668 -2.91061632
## [17,] 2.94099749 2.12613310 3.65189018 1.87598008 0.77443187 1.41945678
## [18,] 2.61516474 -0.22871019 1.09277545 -2.38773345 1.16657760 1.89332736
## [19,] 3.52618305 1.30318465 -0.20370166 1.38795645 0.84935069 -2.52824470
## [20,] -0.43493000 -0.43047680 5.59174743 1.06077803 3.75880711 0.33221391
## [21,] 4.34768950 0.34411440 3.96221393 5.31675985 3.23624031 4.15233072
## [22,] 0.41404802 3.26371895 -0.55534616 1.49376058 0.46418818 4.16100815
## [23,] 2.92299584 -4.02399613 -0.76737725 1.07237155 2.83053203 3.89721523
## [24,] 2.99665617 -1.87679306 -1.14006405 5.10582543 1.77699448 1.08176250
```

##	[25,]	0.22141907	-0.22342144	0.41223627	3.19459216	3.44257083	1.24605806
##	[26,]	3.17042785	4.33540416	5.19246888	2.04133572	2.13760361	-1.11371932
##	[27,]	-0.17205602	1.02273282	3.35054000	0.74689627	3.00578899	-0.02418340
##	[28,]	5.23618485	-1.86621577	2.09854384	0.52247243	0.83173134	1.18582640
##	[29,]	2.99292245	0.36729276	0.62417658	0.07247814	2.11581892	0.65671352
##	[30,]	2.98004784	6.01646731	0.31230559	-0.82114371	4.29595833	-1.00308485
##	[31,]	0.34454165	2.25711754	-0.90872359	0.98299721	0.14148954	3.64133605
##	[32,]	-1.89919645	3.67972759	2.43163436	2.13423379	5.35386576	1.15896002
##	[33,]	0.95444131	1.23112010	-1.20366530	-0.33607728	0.92303246	2.76147398
##	[34,]	0.25005856	2.86490015	-2.35388827	4.71652017	1.99403390	-3.12460146
##	[35,]	-0.52226667	3.03754968	3.65268659	3.46536735	3.94379800	1.19391769
##	[36,]	-1.30514715	3.09087281	2.90439307	0.55474802	-2.19241029	0.94255336
##	[37,]	0.85842978	5.71487706	1.24576986	0.74250432	1.26775751	3.03022591
##	[38,]	5.35137525	4.74941536	2.71382986	0.08682402	1.19631074	4.13338589
##	[39,]	1.37392301	1.91835173	5.01551551	1.09370387	3.55679832	0.72546562
##	[40,]	3.84859784	3.76169036	5.64309568	1.39857804	0.61933975	0.80171867
##	[41,]	2.81497543	1.86485017	4.58528874	1.92677975	-0.58564397	1.24264011
##	[42,]	4.02938450	3.27052964	3.89554069	3.99622588	-1.86153633	4.82135275
##	[43,]	-1.44883253	-1.34978655	-0.33851833	3.39982428	-0.49038189	1.86328653
##	[44,]	-0.26257885	2.87346041	4.67185165	3.22310637	-0.51793332	1.10548385
##	[45,]	0.04619375	-0.22675844	1.22877274	2.23195004	0.44378747	-0.57862488
##	[46,]	-0.27398217	0.45514915	-1.32627160	2.30740587	2.32614428	2.32882737
##	[47,]	2.97842417	3.71679252	1.41473129	-0.04904000	0.31117236	1.34528341
##	[48,]	-2.09337889	1.72589893	0.56813751	1.91084531	2.11353521	0.12694985
##	[49,]	2.16914165	3.78838258	-0.27330761	0.39854282	5.02847546	2.15697312
##	[50,]	0.69064384	3.98165969	1.46593910	1.94221769	0.20849836	-0.75873418
##	[51,]	0.25552778	3.15405883	3.13518129	2.24322089	2.61455475	0.15851676
##	[52,]	1.37820049	1.35847171	3.19213126	3.93970658	2.96728984	1.00550793
##	[53,]	-2.23174626	0.90040829	1.51975879	4.71911928	2.93070336	2.49371869
##	[54,]	2.60900348	0.95877069	6.60392836	2.23083867	3.75101514	-1.47148695
##	[55,]	-0.38010060	0.62811399	1.36360011	-2.08318436	2.31771326	-0.25188154
##	[56,]	0.20029789	0.91920722	4.02093541	-0.62854754	1.46951317	4.90886645
##	[57,]	1.32934816	6.45110828	4.20347759	0.40604215	4.71806910	2.93534335
##	[58,]	-0.78300467	2.73884740	0.36351595	5.13692430	-0.03323363	2.58708484
##	[59,]	0.80009636	3.38312736	0.04764358	-0.69920308	3.71193596	6.87079946
##	[60,]	-0.07539096	0.62975044	0.30855583	-2.10562602	8.63425177	1.58929079
##	[61,]	1.06696749	0.28604215	3.23447545	1.40361422	1.68092839	1.01984471
##	[62,]	0.23525360	-0.06268968	3.13692693	2.13539550	4.14253794	1.74603045
##	[63,]	3.76572073	5.38676908	1.75563820	0.88313313	0.47022685	-2.04750139
##	[64,]	3.05143734	1.00669047	2.12920848	-0.84428113	3.32505863	1.81838388
##	[65,]	-0.06932178	2.76349048	1.46920030	-0.09591264	-0.03796569	0.88510983
##	[66,]	-0.67791884	1.54299820	0.70069811	3.67860162	1.86359518	3.25645938
##	[67,]	0.61839290	2.23779322	4.06938741	3.61405570	3.66882114	1.03971198
##	[68,]	4.79694692	-0.89661683	4.03406018	0.41302918	2.21949068	0.39598070
##	[69,]	-1.68669269	0.63932595	1.59727852	3.11419248	3.26629787	1.05720509
##	[70,]	0.70688300	4.09608837	1.62029034	1.99928631	2.81474975	-2.60952987
##	[71,]	0.44477086	2.12938225	2.58997412	1.17339337	-0.68472843	-1.49648572
##	[72,]	5.65603635	4.45928622	4.68888840	3.90196358	-0.55612524	2.59017878
##	[73,]	0.87633127	2.19880556	0.84352598	2.02879404	-2.14462445	1.39930797
##	[74,]	4.34300293	2.45216510	-2.25215721	0.28333651	3.49074228	4.34398626
##	[75,]	5.92279894	1.78779250	4.27920562	0.70669869	3.50486265	5.40079624
##	[76,]	2.57278123	0.38163936	0.32525212	0.36665969	1.54198295	1.97226635
##	[77,]	1.86897837	2.23424622	1.66907827	-0.03598010	4.47857056	5.35372343
##	[78,]	1.13890392	3.55817824	3.04947134	0.10910416	0.15419874	-0.69943663

##	[79,]	2.99326912	-0.40488733	-0.74796760	2.77948118	1.20157393	-0.24519965
##	[80,]	1.13871567	2.89821335	4.58390208	3.52631529	0.75249754	3.74972565
##	[81,]	0.24912593	0.48504912	1.61471533	2.17384186	5.31455365	-0.42705242
##	[82,]	1.68501622	1.28891550	-2.90438830	1.23297593	-0.16888542	1.17023867
##	[83,]	4.09003932	1.92221752	0.46190358	2.11232470	-1.98797951	2.82250309
##	[84,]	3.76853720	-0.27187529	2.24023655	3.41866125	4.01727041	1.30184758
##	[85,]	-0.20591826	3.48531240	0.18577537	-0.42497395	2.99775612	-0.83249110
##	[86,]	-1.62845619	-0.58230667	1.60023103	2.20027767	2.09562235	3.63088794
##	[87,]	1.18222044	3.36945869	0.79214883	2.84901899	-0.26238165	3.95691187
##	[88,]	3.14163458	1.61845351	3.86837999	0.14183353	4.46698279	4.92855866
##	[89,]	0.85058710	0.82085492	-0.39508451	1.69902137	1.74373362	2.03027756
##	[90,]	4.87030701	2.15759559	3.17692373	3.85518578	0.54200707	3.90434939
##	[91,]	6.66920212	2.32227165	-0.11270689	3.17122167	2.26121337	3.12787155
##	[92,]	-0.06728364	2.63996486	0.53793897	4.59384102	3.54784265	1.55053593
##	[93,]	2.04244424	0.31565766	1.19483723	1.64857934	4.65298041	-0.41965554
##	[94,]	1.77092513	-1.06222597	4.68321255	0.50070959	2.92646174	1.63092390
##	[95,]	-0.85451980	0.06613831	1.71421432	-1.98317324	-2.12654711	1.68402102
##	[96,]	0.60882460	5.11183536	1.24784913	0.78970973	2.62265885	1.53327504
##	[97,]	-1.46835196	4.11237007	2.63432840	1.89217843	0.24709782	-1.56999824
##	[98,]	3.77186573	2.65695391	1.22048012	1.68993917	3.69594899	4.73212932
##	[99,]	5.97085964	1.19027111	2.82781886	0.43506332	1.37576230	1.69253031
##	[100,]	3.09385515	0.62041238	1.74798615	6.42328469	1.60256553	-0.09229376
##		[,7]	[,8]	[,9]	[,10]	[,11]	[,12]
##	[1,]	0.96207414	0.866330502	0.97632077	1.09890994	-0.75864547	1.76268749
##	[2,]	3.90097105	4.849933807	-0.33738259	1.32563629	1.68190049	-1.91646235
##	[3,]	0.16521421	1.310903531	-0.46066612	-1.07991550	1.56077901	1.57820755
##	[4,]	2.69265434	3.921899997	2.15050779	-0.09741400	1.67205816	3.32360030
##	[5,]	1.14074636	3.122158775	2.30859341	-0.14938233	3.28604942	1.63470795
##	[6,]	-1.02315306	1.285398972	2.16922568	0.73103518	0.22973186	2.89615135
##	[7,]	2.52114179	2.536618970	1.08304065	0.64356209	-2.99455481	-0.44421831
##	[8,]	2.01879201	4.041444920	0.87323513	3.32584117	1.49393470	4.49845964
##	[9,]	3.72863715	0.826711161	2.96342493	2.53245240	1.41962299	0.78830081
##	[10,]	4.39974219	5.885797803	4.38234677	2.36584259	2.60421003	-0.89557606
##	[11,]	2.72654825	1.358614463	2.31970637	1.51511576	-2.59049550	1.45954569
##	[12,]	2.21684959	3.361902349	-1.31227183	3.23704749	0.40842560	0.71466027
##	[13,]	1.81277927	0.334367283	5.99647076	4.22008660	2.21699820	0.41365835
##	[14,]	0.51255006	4.484329267	1.52662471	2.48181901	4.00495227	2.93676944
##	[15,]	-0.89648011	3.358603009	1.08566835	-1.31225493	3.60949603	1.08776307
##	[16,]	2.40020521	-1.110600038	1.69036310	1.90390730	2.11751212	1.42549835
##	[17,]	1.28501182	-2.558100137	3.33914267	3.33883366	0.77666432	3.24456607
##	[18,]	1.69149020	3.835736330	0.28002239	5.22978894	3.33570156	1.00306630
##	[19,]	-0.49610380	0.765568548	1.32010359	-0.23937858	0.03790670	-1.40059535
##	[20,]	0.32216544	-1.231962487	5.12198969	1.05090080	-0.77422503	-2.57458305
##	[21,]	0.91736676	0.906850257	-0.99116644	1.32236235	0.90713894	0.21932825
##	[22,]	0.87207811	2.646126087	0.94887395	1.97496644	2.96071020	3.52568553
##	[23,]	2.63198865	1.186361308	1.94612908	0.71680811	2.21121206	-0.59936157
##	[24,]	2.02858996	-0.072864350	0.05858550	2.82637322	-4.09015272	2.16231241
##	[25,]	0.64231648	4.156581232	3.02143438	5.10419936	2.95570409	3.99610571
##	[26,]	4.21400871	-1.297273790	3.93749338	1.28870680	1.41807840	3.14752277
##	[27,]	1.14277526	6.366350863	-1.97206003	0.38260334	1.96926094	2.78446948
##	[28,]	2.00426643	-0.860559472	-1.02948082	-0.35266142	3.82703829	3.67028951
##	[29,]	3.59121031	1.756486555	-0.08859495	5.25933821	1.88524357	-0.21027388
##	[30,]	3.41522494	0.690796143	4.07379441	-1.09315030	3.43854279	-0.71459391
##	[31,]	2.79066040	0.993479385	1.29361924	2.48239053	1.69906644	3.90010346

##	[32,]	1.18834966	0.900929713	-1.66399004	4.68489750	0.96226487	2.27467386
##	[33,]	4.68935740	2.464093089	3.91532371	0.81102610	5.67082843	2.21862840
##	[34,]	2.47003910	3.742392960	1.84095224	1.05057817	3.34484093	-0.34895749
##	[35,]	1.78381058	0.976331937	0.73085285	4.00679987	3.66235545	-0.39242951
##	[36,]	2.23188155	-0.294432421	2.65556586	2.75461001	0.55383262	2.53209456
##	[37,]	3.59013848	-1.598096283	-0.95794091	-2.76065742	1.07077375	4.84471434
##	[38,]	2.44351832	5.247235956	-0.24491215	-1.54204269	2.92272462	0.59833824
##	[39,]	3.03196268	2.673577138	-0.32745109	2.40582574	-0.43630889	2.77915695
##	[40,]	4.88968042	5.262459237	0.80115552	-0.34025969	1.91915608	1.65799089
##	[41,]	3.05857627	-4.086398522	6.23371457	2.99589844	4.03733217	-0.11423867
##	[42,]	4.98568015	-1.963577971	4.53971548	4.95897745	0.71042275	-1.69590537
##	[43,]	2.44779550	3.948195346	3.06688764	3.97237505	3.88132895	0.11037044
##	[44,]	2.35653366	3.463328642	0.80404200	-0.07678135	2.05302096	5.10853911
##	[45,]	2.72848378	1.839979448	2.15856626	-0.38026162	4.14554947	1.49276334
##	[46,]	2.38533790	3.639666794	2.41569519	0.36525419	-0.37706187	0.28823066
##	[47,]	2.38830029	5.179503314	-1.75281731	2.83277135	3.66404113	0.21423879
##	[48,]	3.31158980	0.424997426	1.72521688	-0.97184494	6.00579953	1.16596101
##	[49,]	0.22707881	2.560075761	5.44267880	5.61440163	0.12685456	3.83192682
##	[50,]	2.51112185	5.729040804	0.82804062	2.85866752	0.02981346	1.34404963
##	[51,]	0.94489219	1.304007081	2.29517004	3.18191479	-1.44861609	1.73344706
##	[52,]	3.25977234	3.949743932	3.66397842	3.16573024	1.84537506	2.48990332
##	[53,]	0.93907778	2.437378036	1.63095294	5.34729463	2.07754029	1.98066216
##	[54,]	2.76948059	-1.429962627	1.28816497	2.27239548	1.00409989	2.27767975
##	[55,]	4.43891915	3.828027540	1.29653827	5.30106937	-1.08405754	1.81126191
##	[56,]	0.13541801	4.292780344	0.12071073	1.28436873	1.03979044	-0.76977401
##	[57,]	1.18369987	1.200957063	0.70831884	2.38253265	5.37867341	2.71658477
##	[58,]	1.92286363	1.500868414	3.98147332	0.84845384	-3.96514813	0.23115852
##	[59,]	2.11085285	-0.163166107	-0.23215495	1.32151179	4.68504476	-3.36228677
##	[60,]	4.30660737	1.645108678	3.71613990	5.43769637	0.07498495	-0.45344417
##	[61,]	0.32627503	2.944333062	1.61549868	-0.44639282	1.63220506	0.57946796
##	[62,]	-0.08802748	0.691354932	2.24845936	3.35235773	3.65622850	4.14577785
##	[63,]	3.07321917	3.418393331	1.77169555	3.17528767	3.05884750	0.28858783
##	[64,]	1.65584312	1.243157781	2.92442063	0.11888145	2.67546796	1.32024915
##	[65,]	1.25384099	0.134112992	2.26924435	3.30183494	3.67889643	3.29777510
##	[66,]	-0.27009059	1.221973094	1.71839330	3.56787070	3.91405684	2.95934003
##	[67,]	3.52014217	1.507946287	1.38676056	3.56545466	1.73945488	-0.11748601
##	[68,]	-0.86756735	2.352574586	3.02604544	2.82301208	6.10966578	-0.35964758
##	[69,]	3.41146631	1.208879724	5.28066111	5.97673221	2.23766174	-0.51508792
##	[70,]	1.42302388	2.014031791	5.42291456	-2.83649267	-1.18256530	2.37169879
##	[71,]	-0.02685814	1.076933203	-0.23794011	0.97561497	1.60271644	0.74311754
##	[72,]	1.27289639	2.050268405	2.58633520	6.42525817	1.59142095	0.01722324
##	[73,]	3.01050728	0.005437205	2.51658915	3.54378018	3.29103645	3.27855019
##	[74,]	5.22080193	-0.198293977	1.36833859	3.30663893	4.19131047	-1.29729905
##	[75,]	4.21236514	0.414139594	3.06525663	-0.60408447	-0.27642657	-0.02940433
##	[76,]	1.27872766	-0.176252011	0.70036446	-0.12281253	1.90139211	0.58288560
##	[77,]	3.42325797	4.356952311	0.63901099	-0.20890598	0.94901472	2.26085474
##	[78,]	0.61994053	5.307354123	1.46685929	4.36798422	5.22103654	3.42256216
##	[79,]	1.79498625	3.229018150	1.23956142	2.52539124	-0.64851251	1.93438119
##	[80,]	3.58345912	1.783142156	2.26456849	1.38057864	5.14688600	2.81422060
##	[81,]	3.03360033	3.201227155	-0.69834808	1.25986852	2.99815718	1.68974256
##	[82,]	-2.04795329	-0.967829611	0.83904864	3.01940227	5.07520089	2.93821225
##	[83,]	4.84640458	3.391516973	4.17628665	1.82166482	-0.55485583	-1.27575241
##	[84,]	0.70849211	3.686158916	-0.65184113	1.02592352	1.65475583	1.52335976
##	[85,]	-0.60954698	3.805588933	1.81584915	3.21136301	1.33147369	4.75533565

##	[86,]	4.28529460	-0.574243062	-0.32514134	1.26772248	1.25420055	1.64091692
##	[87,]	2.28890027	2.123553018	2.56857305	1.79517451	6.67024159	2.54791153
##	[88,]	1.43834925	5.459968820	0.02924084	2.46183535	2.42816414	-0.60645636
##	[89,]	0.06310493	2.983755358	3.31446569	3.00569167	-1.88345300	2.84012323
##	[90,]	1.42277809	1.660857280	0.78685791	3.20479802	1.93878068	3.32565518
##	[91,]	1.38095937	-0.348136326	0.47612410	3.94362234	0.09909520	2.96393843
##	[92,]	3.32005858	3.383271481	1.01680330	2.96906822	1.44447996	0.82319416
##	[93,]	-1.73971222	-0.659399487	2.94695370	3.49009326	2.75974260	0.27840855
##	[94,]	3.18794972	1.107459140	1.72248655	-0.22169202	1.72950728	3.56624300
##	[95,]	3.74886144	6.264076504	1.34256812	2.79333959	1.81346124	0.55227035
##	[96,]	0.07936728	0.816825505	4.78866300	-0.48068576	2.27790641	-0.67951394
##	[97,]	0.95361512	-1.404873364	3.76012129	2.49653289	5.04125006	3.23625025
##	[98,]	0.74125015	1.183005998	1.44814092	0.79080361	2.80322043	0.97779158
##	[99,]	2.97865715	0.675448440	1.36675505	2.79463117	4.76761348	0.96476028
##	[100,]	-0.19831468	5.567950531	0.27979735	1.46122343	3.37816659	0.70690526
##		[,13]	[,14]	[,15]	[,16]	[,17]	[,18]
##	[1,]	5.17930711	3.9887412	-0.833178279	-0.30113543	2.83481419	1.23329447
##	[2,]	-1.07110372	0.9241895	-1.465054297	-0.69625743	2.35405879	2.61818406
##	[3,]	1.81014748	2.1316803	1.916018627	1.05663526	-0.60379092	1.10999403
##	[4,]	1.09853771	-1.4919233	5.966464939	0.71067428	-0.17291085	0.27948408
##	[5,]	-0.37277565	1.1666222	0.273507262	6.66131127	4.42392480	0.09046473
##	[6,]	2.12633617	2.7409715	2.681539595	1.94093735	-1.46404476	-0.15428578
##	[7,]	3.68614593	1.6660049	1.165666124	0.18252502	1.20676724	-0.07790000
##	[8,]	2.94926006	2.7402704	4.984746667	0.41450815	1.40259675	4.91724364
##	[9,]	4.22307701	-0.2098162	0.127091863	1.40127175	1.29773857	5.81074512
##	[10,]	1.69240369	0.4643902	4.541060715	1.35804286	0.08074493	-0.51464123
##	[11,]	1.09594125	1.9090259	3.515744694	2.54990359	3.84147286	-0.16784981
##	[12,]	3.47005601	-1.2148640	1.688880556	4.25999409	2.89430984	1.66090337
##	[13,]	1.70846952	1.0425676	2.739806487	1.05744229	0.80604124	2.70088530
##	[14,]	1.85804853	0.9422055	3.506749717	3.79188579	3.00540818	4.35012436
##	[15,]	-0.28362559	1.8006831	1.259132731	2.60704878	1.97031220	4.03523172
##	[16,]	2.32503879	3.1450675	-0.392942567	0.49172947	2.15333029	0.96670220
##	[17,]	3.47778042	1.3674079	0.526570762	-1.61317518	1.58453599	4.12755688
##	[18,]	1.75329857	4.9270749	2.360154534	2.53252744	1.49134817	3.85334237
##	[19,]	2.12417204	1.5245992	1.190299280	-0.75078641	1.80550384	1.32326272
##	[20,]	4.07671704	3.5097181	0.608274247	-0.60518873	-1.89729105	4.51043445
##	[21,]	1.44622723	4.3451627	1.526539399	1.15690920	2.57527097	1.57758618
##	[22,]	-0.68767633	3.5938460	0.551896433	1.93249367	1.16060719	1.60554820
##	[23,]	0.33261296	1.6676139	1.909461941	2.97157570	1.43465065	4.65477732
##	[24,]	1.89177648	5.0602691	4.831170773	-1.07564985	0.80097913	2.14806639
##	[25,]	4.33341880	2.5143035	3.156914316	1.25030304	3.82108871	2.14810048
##	[26,]	0.71827346	3.3244715	0.838807135	-0.69705590	1.76373925	1.96801569
##	[27,]	0.53343635	6.9607551	2.068338885	0.10562796	3.63537945	-0.39406800
##	[28,]	2.43483367	0.5451176	3.058207638	3.90542020	-0.46986967	-0.83519620
##	[29,]	0.94226787	1.8311871	-0.721799525	-0.27580120	2.33139108	3.54425110
##	[30,]	1.85162901	2.8796134	2.933549375	5.11858454	2.17234065	0.79027437
##	[31,]	1.94905201	2.2240476	0.185438494	0.83505881	1.64980756	-2.28044523
##	[32,]	-0.91598803	4.3480040	1.686628148	2.09492670	0.79658175	2.48387752
##	[33,]	2.22294405	2.4526299	-0.393043416	2.71280388	3.89983621	2.42998744
##	[34,]	2.72872852	2.1866113	1.287091857	1.69727628	2.83495017	2.20679973
##	[35,]	0.37323310	2.9796486	0.634829789	-1.66462312	3.36546650	0.04524950
##	[36,]	-0.85533344	2.1818130	0.770364272	1.47681473	2.15877055	2.44080054
##	[37,]	2.20753634	3.3568849	-1.492331927	-0.72384238	3.50354238	0.74835187
##	[38,]	4.19870025	1.0217544	-0.033765507	2.08826233	3.10298205	1.60731229

##	[39,]	2.14334410	3.2279668	1.436276888	2.48951896	2.07932246	0.68169034
##	[40,]	1.90900294	2.3357020	-0.009293648	1.76948584	0.32381561	5.00486051
##	[41,]	2.33102035	0.3985957	1.725624683	0.13540293	2.77219310	-0.61161436
##	[42,]	-0.26798682	2.3723826	2.017119306	2.46847666	3.01059122	0.43418816
##	[43,]	3.82085618	1.8789815	2.287084979	2.04120362	0.91135402	1.80122040
##	[44,]	0.37066219	4.2333309	4.029142383	-1.40491552	1.83956202	1.10168877
##	[45,]	-0.86395070	-1.5354657	2.517543950	4.82217207	1.00208248	-0.70090003
##	[46,]	-0.92596933	0.9678790	5.230782913	0.54548072	0.66941897	5.22326353
##	[47,]	0.60957904	1.8933735	0.687972941	1.91259537	-0.06231842	-0.73232459
##	[48,]	1.08791635	0.9044605	-0.746172820	4.77461461	3.29855939	3.71064742
##	[49,]	-0.78210541	1.2367450	1.390575700	2.16316589	2.22693470	-0.41319313
##	[50,]	-0.40890632	0.7621424	1.083765770	2.30253205	-1.97912491	3.92093773
##	[51,]	0.91607963	1.5458272	0.374334137	3.10192264	0.41231512	2.06275500
##	[52,]	2.53735673	2.1687309	3.118193854	3.66552973	6.41312347	-0.46023100
##	[53,]	6.62915489	1.3954128	-1.662807647	2.26888075	3.07883740	2.49103170
##	[54,]	0.65830711	-0.7280038	3.967388095	-0.13576140	1.22970684	0.22555451
##	[55,]	1.53847766	-1.4387862	0.737355034	4.13890819	1.58271816	3.45577513
##	[56,]	6.13945798	4.9472549	4.706844496	2.02216605	0.28467882	2.14953142
##	[57,]	1.74165629	1.6173758	1.878853964	3.05060724	0.68666662	0.81120547
##	[58,]	0.90153626	4.7205546	4.170600154	5.03024081	0.87321794	2.52395249
##	[59,]	2.88521304	2.8440398	1.738164444	-0.07722346	0.53263793	-0.06500832
##	[60,]	3.74021048	1.1104678	3.462465011	1.29954409	1.36104811	6.32832675
##	[61,]	3.24297322	0.3232846	0.841618606	4.72868403	2.23246040	3.24145410
##	[62,]	-0.98120646	1.0878498	1.390487643	2.24744958	3.07921781	3.20186822
##	[63,]	1.12375260	3.9803884	2.064335735	-2.06939704	4.77315066	1.35971067
##	[64,]	3.80226154	2.9644059	0.600855420	6.25631157	-0.39819026	2.23382689
##	[65,]	-0.03355781	1.4871887	2.290489643	2.16636732	4.89916909	2.08920111
##	[66,]	2.48173667	-0.5655528	3.424419150	1.71372160	-0.16706725	1.98095153
##	[67,]	2.02744883	3.7950116	2.530415694	1.87713627	4.77901327	4.72609732
##	[68,]	0.11945964	4.7788108	3.739142883	1.76359041	3.77678727	4.38557910
##	[69,]	3.63507902	1.3658385	0.092452037	0.66541903	0.91399788	5.22008446
##	[70,]	-0.69976480	0.3362256	1.987712357	0.53010725	2.42029112	1.97038234
##	[71,]	0.87014853	0.7729736	0.737719927	-1.69118071	0.99919636	0.20480099
##	[72,]	2.55141574	4.3510870	-0.738010216	-1.83273324	2.01319147	1.54263751
##	[73,]	4.74448590	1.1681329	-1.885456312	3.84670418	4.95521993	1.24953220
##	[74,]	7.24860825	2.6088907	-0.874585053	2.73943359	3.99661365	-3.02794085
##	[75,]	-0.57577371	3.8510963	3.048499707	-0.95118906	2.42091235	2.03111767
##	[76,]	-1.70303695	1.2718954	3.358651359	7.71259668	2.03486698	2.48860193
##	[77,]	-0.02264014	1.9414178	-1.222898777	2.45360844	1.58760199	3.47145390
##	[78,]	4.62121706	-0.7975641	2.283608544	1.70746610	5.69554837	1.19232133
##	[79,]	-1.58872994	2.5538489	0.776209415	1.44255201	-2.13537740	3.72862130
##	[80,]	0.81052096	3.7375951	2.253554383	2.15621840	0.04362866	2.94414781
##	[81,]	3.32715656	1.7377118	2.428002223	-1.88447210	2.18918926	2.32961364
##	[82,]	1.35195038	4.5311345	3.247172897	2.77940352	4.71866577	2.70572713
##	[83,]	1.85162593	3.3590577	-0.492754784	3.70007915	2.39390039	1.13961788
##	[84,]	3.97149840	3.4474100	1.080902974	3.61342270	-0.48601048	1.76917552
##	[85,]	5.25352488	3.6461174	1.342287609	4.41981884	1.99127885	-2.16950194
##	[86,]	2.73990019	1.3835218	2.957906108	2.07783019	2.81786812	3.44902721
##	[87,]	2.49681352	-0.5565033	2.669093899	2.86608760	0.30931948	1.95030824
##	[88,]	2.17448316	3.7721168	0.483478063	3.41676904	0.68035819	0.66212793
##	[89,]	0.62888338	2.1414935	2.253330616	6.39484529	3.94058972	4.50904051
##	[90,]	2.62162170	0.7850630	0.650235965	-1.85222648	-1.25165683	0.46639246
##	[91,]	2.21359480	1.7268945	3.780048004	1.89976873	1.74862081	-0.38224706
##	[92,]	2.11265443	2.1548464	2.101030751	2.60903116	-0.95609925	2.15687294

##	[93,]	-1.17399614	1.5348546	1.542981535	4.62795645	0.74040456	0.54805308
##	[94,]	3.90014782	0.3191300	5.347629704	0.59407099	1.63318441	5.71040251
##	[95,]	-0.49049865	2.1002090	2.270067318	0.05927484	4.10951093	-1.03037722
##	[96,]	2.40743293	6.2523202	3.430015581	2.51862393	0.35503497	0.56953433
##	[97,]	2.28170031	2.2978472	5.320999205	4.45304134	1.97441337	-1.69003762
##	[98,]	2.38094443	-0.7771961	0.967896474	0.46259613	1.60262522	4.59471685
##	[99,]	2.83194928	2.2848618	1.417000387	3.09138120	3.20376905	-1.96542971
##	[100,]	1.74310496	2.7988287	2.946669154	1.55998561	3.57355248	-0.88190932
##		[,19]	[,20]	[,21]	[,22]	[,23]	[,24]
##	[1,]	2.6489830	2.02591358	1.01947478	2.39455758	1.32303389	4.6875217
##	[2,]	2.2371505	0.62572713	2.58213072	2.01075592	-0.03920063	2.3092544
##	[3,]	3.9288294	0.86785646	-0.74503701	0.18216647	1.11206314	0.1771189
##	[4,]	1.6140088	0.04905190	2.24602999	1.06207917	0.64508738	2.7887211
##	[5,]	1.2117657	2.39529867	3.19373202	-0.41503410	1.21659398	4.5901684
##	[6,]	1.7946454	2.18723382	2.84659795	2.53509072	0.30735779	1.0420941
##	[7,]	0.9779156	1.57952197	1.25699669	-1.54626597	5.06425944	1.8326529
##	[8,]	0.5099947	3.20124766	2.90999252	1.98894095	4.17723229	-0.2737007
##	[9,]	3.9325500	-0.07973461	-1.54359437	0.88052061	3.96936617	1.3009344
##	[10,]	2.1739462	4.29692149	4.94755682	-0.34487330	2.76151990	1.9028477
##	[11,]	0.8577064	1.14662674	3.64155162	6.79646897	5.45050779	3.6515383
##	[12,]	6.5336821	0.80689783	1.01277077	3.71484616	-1.14988776	-0.3879827
##	[13,]	1.7603743	3.21095001	3.77944529	4.44496819	5.44985668	3.5974557
##	[14,]	2.7197005	1.36257847	2.81777211	2.39851491	1.06779967	2.4393984
##	[15,]	6.6386253	2.84715795	3.56161862	0.71274957	0.41581537	2.5292460
##	[16,]	3.6691609	-0.97205080	4.55173254	3.37174623	1.45523154	2.7758025
##	[17,]	3.3231827	3.74788147	0.35215647	1.88442074	3.36918515	1.2083074
##	[18,]	0.1476138	0.04832576	1.19774046	2.11301467	-2.51134410	-0.8386013
##	[19,]	4.8416723	1.80019429	1.49573021	-0.56746505	1.17547051	3.9603620
##	[20,]	0.2993944	2.51870167	3.19476871	1.08855255	-3.07072584	1.5540664
##	[21,]	1.5909213	4.20668750	2.49548121	1.84073217	-2.13088719	1.1872010
##	[22,]	1.2782151	-0.04378003	3.51445607	4.39484186	4.28886803	1.3933631
##	[23,]	4.0848232	3.04834040	3.20158206	3.82822375	1.86526878	1.6142390
##	[24,]	1.6245505	-2.55619111	0.90269396	3.36746442	-2.01786933	0.8434011
##	[25,]	-1.2255575	1.85908182	-0.50329903	2.61550442	2.31480024	2.9716996
##	[26,]	0.3021649	0.72651237	-0.78772069	2.53067670	1.31372698	1.5899800
##	[27,]	0.9283892	2.96345967	0.80410881	6.70642277	0.38272481	-0.4216016
##	[28,]	-0.8531914	4.60914181	2.66526101	3.40104725	2.54164169	1.0014584
##	[29,]	3.6622839	0.83580759	0.83359311	3.03148827	2.41200027	4.1823611
##	[30,]	0.7506852	4.96283999	1.77662386	0.30664166	1.84326074	-0.0808656
##	[31,]	1.6854349	1.14165383	0.55233972	1.75984758	-2.74920629	3.4457094
##	[32,]	-0.5080281	4.23617663	0.61245030	1.93916434	2.37693331	-0.1053464
##	[33,]	0.5824759	0.68343236	1.39912814	-1.13711281	0.30907901	3.5885709
##	[34,]	0.8352774	1.78922305	3.78713460	1.64648304	2.85687163	1.3253402
##	[35,]	0.3047493	3.02080636	0.33205852	3.66514685	0.36803865	1.9900511
##	[36,]	0.4761929	4.21490668	4.93569203	0.06877270	2.87223264	1.7095060
##	[37,]	1.0557243	1.93362745	-2.08789900	2.05158404	2.54113524	0.1039652
##	[38,]	2.9568281	3.51404928	3.19145466	3.85369231	2.85584460	0.5571353
##	[39,]	-1.1771367	-0.06817903	1.94368609	4.02326270	-2.68329964	4.1439559
##	[40,]	5.2373263	-2.37710225	4.15134406	2.68999279	3.28592712	2.6348664
##	[41,]	5.3874481	3.19754884	4.12399706	2.98022035	2.58068735	-0.8701750
##	[42,]	0.1605167	0.85354582	3.93494059	4.98668764	1.35916100	2.2414136
##	[43,]	2.9417482	-0.28097136	0.82657839	0.68136284	4.93299538	0.9204270
##	[44,]	1.2970677	2.26820098	5.15037143	0.51465410	3.07533053	-0.4933254
##	[45,]	2.1601721	-1.56647569	1.10360697	7.64324415	1.97740172	2.5114266

##	[46,]	1.8773108	4.31004615	3.04818595	-0.58488164	1.26835836	0.9973401
##	[47,]	4.9064585	3.11458545	3.24796106	3.10307886	1.25801793	0.7654272
##	[48,]	2.2802409	1.73188473	2.53649812	0.58381194	0.06348121	6.2322854
##	[49,]	-2.8241936	0.84441839	7.54278970	1.84504490	4.42602185	-0.2171415
##	[50,]	0.7533432	1.39994838	4.35515471	-3.78693249	3.43725558	1.4797138
##	[51,]	4.9352074	1.18639349	1.64858092	-0.92757602	0.34295248	0.6050183
##	[52,]	-0.4685782	0.42874369	3.10558055	2.53777405	3.33648941	0.3224570
##	[53,]	6.1715524	-0.24691248	-0.58441752	1.11584686	-1.79242392	3.3662031
##	[54,]	2.2224942	3.48759973	4.01010240	1.16566109	4.51444831	4.0211881
##	[55,]	0.9091674	0.77374520	4.10331426	1.13462845	-0.63482236	1.4248406
##	[56,]	2.0080957	2.76882777	-0.67779566	-1.17327483	4.84270272	0.6412952
##	[57,]	-0.7823295	3.06792668	3.63102381	2.63814098	5.39966783	0.7061740
##	[58,]	3.8806955	5.82558754	1.63594811	1.56316209	-1.25170620	1.6885365
##	[59,]	1.7651021	3.32946810	4.91922240	1.38631127	0.13755274	2.2318345
##	[60,]	1.8277803	1.10241166	1.70001965	1.72259376	3.94682807	-2.5496835
##	[61,]	2.0362029	1.81753809	-0.70736868	2.10411961	-0.56439668	0.4066327
##	[62,]	0.3311139	1.51940988	0.36812916	0.53095439	3.33268928	2.0111133
##	[63,]	6.4944575	4.16820145	4.60148019	0.04377145	-0.07720776	2.3927724
##	[64,]	7.9495188	3.34683734	0.72305106	2.66519470	4.72746444	2.0389529
##	[65,]	-0.5896218	1.55571771	1.51395296	0.27320562	8.13614978	3.8233009
##	[66,]	1.1932104	1.68892644	-1.29926661	4.67847006	0.51995418	1.3738290
##	[67,]	4.1637341	-2.50097478	3.22561411	3.48736540	3.78283137	-0.5357501
##	[68,]	1.6069926	1.97344295	-0.12484322	0.39376416	0.30463165	4.6853702
##	[69,]	6.1972258	0.55615451	3.64269318	0.31583388	1.15527342	0.1951467
##	[70,]	1.5665384	1.85010640	2.71284422	1.63305441	2.03783117	2.2416911
##	[71,]	2.4462250	0.42539867	4.58403148	0.51705592	-3.68330378	5.1144499
##	[72,]	-0.7163559	1.91602648	1.63410575	-2.95178438	3.51219090	1.8901006
##	[73,]	0.2879118	1.73092661	3.73571672	0.70026477	4.73245528	-1.6434871
##	[74,]	-0.1033573	2.58456844	2.07152118	0.64070111	1.43257002	4.0857244
##	[75,]	-0.8021888	-0.55629773	2.00315440	-0.51978082	4.30876096	4.5656860
##	[76,]	-2.5914731	2.12427042	3.37791909	0.94148335	-0.73435112	4.3614540
##	[77,]	1.5360991	4.27199110	4.74790327	0.12977513	0.81209466	1.2642111
##	[78,]	1.5888390	2.85472452	3.11536955	4.37670412	1.38016491	1.4917497
##	[79,]	-1.6819025	1.55759530	3.05849462	1.10723086	2.79862340	3.8167033
##	[80,]	1.8769103	1.25543152	3.38211198	-0.57932073	1.46541623	-0.7559448
##	[81,]	1.8955240	2.27895446	0.05442011	0.37125633	3.02265319	2.1878281
##	[82,]	0.9827046	3.93823188	0.09731309	3.20693345	1.64412986	-1.7344874
##	[83,]	3.7948480	-0.06813853	1.90339984	-0.73353250	2.35933528	-0.1185748
##	[84,]	-0.3869264	0.24930809	2.56825628	0.47193692	0.08875764	2.4106365
##	[85,]	0.5437674	2.50679993	2.58825142	1.15590085	2.23103616	1.3599713
##	[86,]	4.9257645	0.07596213	0.24324355	1.30049081	2.26849752	4.5596580
##	[87,]	2.0868796	2.76983978	4.20034328	-0.66078950	0.74753474	-1.4867474
##	[88,]	4.5151902	-1.94168279	0.64103655	1.72480755	2.56314562	4.2947495
##	[89,]	3.8523983	0.55260052	1.31948138	2.82807827	0.95100314	3.3320572
##	[90,]	1.5168352	0.72761041	2.70966396	1.16301517	0.78312109	2.4220816
##	[91,]	3.1208568	3.21185954	4.38575749	1.79132817	0.10901662	0.3035509
##	[92,]	1.6887121	0.94889553	1.11075946	0.21302730	0.04420486	2.7096543
##	[93,]	2.4867031	3.62621122	3.76863765	0.78663885	1.54973386	3.4146114
##	[94,]	3.0136040	-1.74799313	3.97562270	2.67526424	3.48345495	-0.5024125
##	[95,]	2.4132619	2.90784145	0.86324336	1.65224319	1.64376908	1.0182500
##	[96,]	2.1310851	3.23175791	-0.45807672	5.36103182	1.98681298	0.9667518
##	[97,]	-0.2168580	2.38611989	0.38808546	-0.10101569	2.58786405	1.1173713
##	[98,]	-1.7484322	1.98109952	-0.27875948	1.32331028	3.04354874	-0.3672966
##	[99,]	2.0913913	4.54279207	1.72215294	2.62457758	-1.02101177	0.2904469

##	[100,]	2.2379445	6.05174254	1.41014326	2.80138181	3.62592889	1.1500348
##		[,25]	[,26]	[,27]	[,28]	[,29]	[,30]
##	[1,]	-0.57815879	0.62451332	-3.80340522	-0.70311584	-0.00231682	4.56936334
##	[2,]	-1.00839862	1.06292419	-1.69239101	0.81531864	1.31772869	3.91330595
##	[3,]	-2.01181221	0.78074170	-0.22437431	2.09329692	0.97469496	0.01731050
##	[4,]	1.23854902	3.15283627	0.29859380	1.16344341	2.87004173	1.46440930
##	[5,]	5.18582047	1.94766023	0.54937353	1.02214597	-1.67932918	4.30614450
##	[6,]	1.65501956	2.12662122	-0.81298034	3.54740279	1.95124444	2.96002050
##	[7,]	3.24629490	3.45502965	2.20752497	1.09813710	3.66101073	-0.68083699
##	[8,]	1.89223009	-0.94698088	6.44047097	3.64070771	-1.86490598	0.72599723
##	[9,]	2.00004175	3.42395579	-0.11435979	4.41561493	4.25303317	1.86257865
##	[10,]	2.65726555	0.58109097	2.88908958	-2.24362965	-0.41046530	5.20402120
##	[11,]	-0.23388948	0.59305138	5.83747162	3.01112463	0.48721494	2.38557609
##	[12,]	3.64484152	0.45622472	0.63900624	-0.13812214	2.58001041	-0.50081501
##	[13,]	0.89708977	2.44377772	0.62690554	3.27131739	1.86802315	2.20545678
##	[14,]	1.08941069	-0.48589786	0.93372538	0.24215142	4.75058627	1.72895494
##	[15,]	1.64852598	0.97166199	3.48044684	-1.45734465	3.36090765	2.99943058
##	[16,]	3.00682462	2.24081347	-1.01689851	2.90557394	3.29886471	3.33672197
##	[17,]	-0.54950448	-0.18538241	4.79710026	5.24731110	2.14517288	1.75630453
##	[18,]	1.00375301	4.84644549	3.63930985	2.55015057	1.77378777	3.81143743
##	[19,]	0.14237158	1.76908335	0.80981244	1.76937313	0.77826537	1.55401838
##	[20,]	-0.95148692	3.98903452	4.52492271	7.29252431	3.23122819	0.99654322
##	[21,]	2.46272332	1.12932767	3.51324362	3.04763971	1.21817945	1.23698883
##	[22,]	2.88717927	0.35370356	3.71216926	2.52234562	1.30422228	-0.70579175
##	[23,]	1.10419252	4.48934291	0.98360046	2.66931231	1.99909729	0.01077695
##	[24,]	0.81971569	4.62078565	1.68970393	1.34723917	-1.48116421	4.18928237
##	[25,]	3.41649582	0.99131289	1.27241811	0.83326895	0.36728756	5.37285270
##	[26,]	-0.79930394	2.92664686	3.31914251	5.71879062	0.59328184	3.13871737
##	[27,]	-1.33849508	0.58995224	4.13255898	7.36051485	2.76250012	4.75293115
##	[28,]	0.85613790	4.98145302	1.44611098	0.58751749	3.41496513	2.43967324
##	[29,]	2.79947344	3.42275438	1.55498991	5.42985558	-0.54697638	4.86810640
##	[30,]	2.40023445	0.95267479	1.08722678	2.12731912	1.50335908	3.98140694
##	[31,]	-2.32285675	1.22637404	1.89348824	-0.12681538	-3.62941150	2.61707695
##	[32,]	3.22578339	0.07329356	1.51567084	0.65965801	3.57351573	2.49682794
##	[33,]	-0.54967026	0.90931427	-0.06306275	0.79164425	1.69357992	1.88334473
##	[34,]	3.32482807	-0.22557679	0.95043389	2.80364928	0.71582939	2.00613477
##	[35,]	0.36043448	1.35765378	0.43201465	2.57958651	-0.20482553	2.04645799
##	[36,]	1.88655942	0.42370695	2.85303312	0.53255180	-1.04246775	1.03491974
##	[37,]	1.04899582	2.77270275	3.68196457	2.93561322	2.98894351	-0.24803031
##	[38,]	0.49559999	4.37080457	3.27272166	3.58854253	6.08314469	-1.14263505
##	[39,]	0.56999189	4.47611609	4.23555492	6.04679116	2.50593280	4.57107773
##	[40,]	1.82146612	1.19471858	0.75159645	-0.29227963	-0.03008000	1.82923589
##	[41,]	5.12207309	3.83715224	3.35186374	1.72088604	2.02453727	0.28396646
##	[42,]	2.36635289	2.42256416	2.25948270	0.40346388	2.02274524	4.82810655
##	[43,]	1.30760894	1.32573613	-1.82091283	1.71409145	3.54892602	3.20271175
##	[44,]	1.47212837	-3.24310376	1.90687262	0.93733670	4.88292009	3.18216360
##	[45,]	1.89990422	1.89887644	4.08492227	3.66298226	0.51352184	2.13775678
##	[46,]	2.57074012	-0.07548468	3.50447905	5.57051755	3.71857176	-0.08628537
##	[47,]	3.51767710	-0.71662479	3.77963433	1.52003048	1.52849049	2.37901541
##	[48,]	4.00311689	-0.95578645	1.26505777	2.63154001	2.55607143	8.08091915
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##	[9,]	0.1772632200	2.20760840	1.7382362	0.457430334	2.50407481
##	[10,]	0.7403689926	2.40075040	3.1824264	0.799919249	4.55263850
##	[11,]	0.7344867587	1.17357804	0.8008584	0.520267782	4.32253412
##	[12,]	4.5683986438	2.57300729	-0.8225547	0.758035829	1.27400524
##	[13,]	1.4369120582	0.96406640	1.3370807	4.199507213	1.93786021
##	[14,]	0.2008017345	-0.81873338	1.8639829	1.808535357	2.18597620
##	[15,]	1.8377516361	3.20830519	3.3700716	2.154911239	4.33790263
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## [99,] 3.10087766 2.63009182 4.5206959 2.73261844 2.43697464 0.22585001
## [100,] 2.92473721 0.49693142 3.4578160 1.43257810 4.64909928 1.88810545
##      [,42]      [,43]      [,44]      [,45]      [,46]
## [1,] -0.419862787 -0.77834426 1.85646692 1.04583467 1.054276699
## [2,] -0.994612405 3.62512331 -0.41493576 -0.07761903 2.141901581
## [3,] 3.337631678 4.41507430 1.79234427 -0.08035289 -0.642556886
## [4,] 1.778469743 1.12388234 4.41741460 4.56808318 0.997815743
## [5,] -1.716331680 1.20496774 3.50507497 3.32717940 -0.970041520
## [6,] 1.883800638 1.29635840 1.40960551 2.61124956 -0.622678735
## [7,] 0.689174096 1.45024174 1.10076413 1.99799087 -2.686363060
## [8,] 2.898381719 1.75496955 1.93965711 1.41893743 -1.721178451
## [9,] 0.056813972 6.39763694 5.51920499 5.06123399 1.617837313
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##	[20,]	1.358733316	0.46186428	0.96713363	2.15761708	3.465531567
##	[21,]	0.317041100	0.02875885	0.03648030	1.42262894	3.743056598
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##	[23,]	-0.337810307	2.91075472	-1.94167759	3.13269539	4.153080431
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##	[28,]	1.520144430	4.89578085	3.73539862	-0.76620560	3.208028533
##	[29,]	1.545495018	4.05622140	3.52716105	1.10525719	0.631273270
##	[30,]	2.045439749	2.93806027	3.87654029	1.71318059	0.784532256
##	[31,]	-1.067645738	0.61615729	1.84671136	0.43609632	3.226033421
##	[32,]	1.679829229	-0.17299429	-0.52147310	3.43038382	1.698269289
##	[33,]	2.895285676	-1.61381515	-0.19902947	-1.25660924	-4.194704426
##	[34,]	3.410665226	0.07198307	-1.58768777	0.26594351	1.007440356
##	[35,]	1.847071510	1.70211838	4.10656329	3.77123744	3.469981974
##	[36,]	-2.851601142	-0.92016689	3.88165445	-1.99373700	3.438393663
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##	[38,]	1.433646620	1.40707283	1.86956713	0.27588217	-4.019286920
##	[39,]	-2.128743545	2.29276785	4.93369566	0.62395793	2.660993001
##	[40,]	1.577218293	0.24163375	5.62682454	1.75264106	-1.852300629
##	[41,]	6.169148793	1.77702482	2.02903401	0.96196372	1.265018838
##	[42,]	2.431831773	-0.70805470	-0.90888348	1.94652832	2.738002583
##	[43,]	0.721495523	-0.72110549	0.63131963	2.81807026	3.469867024
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##	[45,]	2.155278991	-1.55089786	4.36792303	0.33498689	-0.596159753
##	[46,]	0.791059827	1.14227819	0.40266708	1.16834404	0.301697541
##	[47,]	2.901883771	6.23079750	-2.03462848	0.82849476	0.955773011
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##	[59,]	0.865182216	7.91404456	1.39390252	3.07679198	3.591066582
##	[60,]	2.454111658	0.84636987	2.92989625	6.93924130	4.084113071
##	[61,]	5.196460057	0.12506759	-0.32509918	2.18203228	-0.515835062
##	[62,]	5.699299642	2.50170272	4.04708310	0.05672524	-1.163348890
##	[63,]	4.120820730	2.26595166	1.00028958	3.74628337	3.355666791
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##	[65,]	-0.182229176	4.49426683	-0.25775475	3.07622013	1.284514582
##	[66,]	3.658493669	1.87099928	5.21756538	2.45490073	1.619734443
##	[67,]	0.582227902	-0.64160786	1.59262564	3.84774869	-0.704917869
##	[68,]	1.586337366	3.64189676	3.64929312	1.55503651	1.034281888
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##	[71,]	0.989579739	1.39759589	1.47423169	3.90238673	0.234048260
##	[72,]	4.812482261	4.41589986	1.38226915	3.01695778	2.558539195
##	[73,]	4.599639538	3.45191241	3.20267068	2.23119125	-2.739940109

##	[74,]	5.904910595	1.55066735	1.21507395	0.94558345	3.245271289	
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##	[78,]	1.626118375	-0.21189891	1.47164098	-1.37210459	1.860102846	
##	[79,]	-0.398976380	0.85679736	1.69694307	2.48696598	3.133966790	
##	[80,]	-0.314438358	1.31535126	-0.44428887	0.99456702	0.264086954	
##	[81,]	2.398556321	2.54126508	5.79479639	0.13983869	0.048210850	
##	[82,]	3.805915764	3.79778893	1.74284744	1.36581986	6.674904309	
##	[83,]	2.317685357	1.32173175	2.52711769	1.45383853	2.320461792	
##	[84,]	4.284044453	0.09130499	-0.23381246	1.28780956	-0.389443890	
##	[85,]	-0.365245977	0.04813536	0.67052705	2.81588705	1.207928917	
##	[86,]	3.333960824	-1.83380423	5.77412713	1.53834207	-1.327277062	
##	[87,]	2.318488997	2.63201815	0.81020127	2.45858343	0.132189059	
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##	[89,]	0.320193278	-1.20127064	1.27320335	3.46714763	-1.538820653	
##	[90,]	0.810375311	4.34950658	0.74661759	1.26626757	2.239335817	
##	[91,]	1.678925525	1.71844929	4.01626823	5.59748320	2.245624263	
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##	[93,]	2.751724275	0.87760579	0.11949572	4.69892354	1.425376875	
##	[94,]	3.778353987	5.57371479	0.85962081	1.70673976	3.742645344	
##	[95,]	1.824624001	-0.46877909	-0.25226941	1.66000527	4.307595133	
##	[96,]	-0.162260000	4.91433795	1.89497443	5.81582968	1.781911952	
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##	[3,]	1.80669578	4.06764388	1.724275509	1.98097541	0.5278150	1.05785914
##	[4,]	3.19567423	3.99730744	-1.417147126	1.70094517	1.6597651	1.71164629
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##	[6,]	6.76347970	1.78705931	1.919945251	2.31962659	1.6048540	5.18218974
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##	[8,]	3.06315232	4.18066119	0.164524272	0.64722501	4.9099341	1.77726512
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##	[12,]	2.42543906	-0.48992368	0.416240425	1.09814202	4.8673728	4.42723976
##	[13,]	5.70331921	2.43914722	-0.057723619	3.87261780	1.0667783	1.93268776
##	[14,]	4.03043427	0.90415517	0.821689941	2.16004995	-1.0059616	3.80003659
##	[15,]	2.94450349	4.05196795	3.073657435	4.23251657	-2.6643690	-3.25509546
##	[16,]	1.64226416	3.87312522	1.689410234	2.48714804	1.1420786	1.00447835
##	[17,]	1.91432488	3.80818527	3.163249398	5.33093322	1.1259466	0.97321457
##	[18,]	2.37157224	2.51205198	2.295732906	-0.92384973	4.1240225	1.40380612
##	[19,]	1.03949720	2.84483826	0.594660940	0.13719150	1.4491944	3.76052717
##	[20,]	-1.64797963	1.38319136	1.215638694	0.23687904	2.4154391	0.59726139
##	[21,]	-1.35306109	0.41404597	-0.121745072	5.60780009	4.8823855	6.25761054
##	[22,]	0.81667597	3.45580512	4.619270209	-1.16170681	2.5277202	2.96604392
##	[23,]	1.80363018	0.66890760	2.037360893	0.85578319	0.9673045	1.25627493
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##	[25,]	1.46691189	1.79902493	1.480775525	6.06430406	1.4356760	3.18962224
##	[26,]	2.55437252	3.14050799	5.467754881	0.84572744	0.6959057	-2.18215628

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##	[30,]	2.97006234	2.85387136	0.545367709	2.92887467	2.5511904	3.97502941
##	[31,]	0.74904423	5.74623397	1.619053985	-2.30535474	3.4623792	3.99472723
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##	[35,]	2.47792043	2.62468926	-1.173395266	2.89163165	3.7683568	3.25296438
##	[36,]	1.42744377	-1.66298753	3.263771203	0.79309592	1.7721584	3.02012955
##	[37,]	3.45284858	2.39139091	3.798128143	0.81786762	3.2790420	2.56344914
##	[38,]	0.67987266	0.72391623	-0.777547536	3.33601863	2.0757468	-2.13224304
##	[39,]	2.76055231	3.81754725	0.002579106	-0.17562766	1.0159939	3.49432660
##	[40,]	1.37678639	-2.13379433	2.365098122	1.15385966	2.8200200	-2.06549041
##	[41,]	-2.02771667	3.80733235	1.141249404	-0.61918814	1.1318526	-1.19971632
##	[42,]	2.63761496	0.59221523	5.923245731	1.88962437	3.1296605	3.59472279
##	[43,]	0.72265442	-0.24310899	1.033929354	1.24593887	1.0880318	1.19493023
##	[44,]	6.69201864	0.60288852	3.543574246	1.66902189	3.4707697	3.85557331
##	[45,]	-1.97245435	4.89757024	-0.418070879	2.96291436	1.6361581	2.40491269
##	[46,]	3.02209026	5.61317027	2.370920059	-0.69378993	2.7606573	-0.87329506
##	[47,]	0.98277080	1.01590803	0.164486793	-2.31826352	3.0217877	-1.10133942
##	[48,]	-3.53783714	2.87517266	5.144782300	3.15905260	4.1758137	1.17932609
##	[49,]	-0.03035273	-0.49420810	1.567947070	2.49296345	1.8076729	1.04039724
##	[50,]	3.03537983	1.94240245	6.532528585	-0.01551996	2.1758339	0.94438810
##	[51,]	6.15471251	2.23896405	1.432601790	1.83688606	6.5485683	2.86145484
##	[52,]	4.32606088	0.21060837	0.581159765	0.20363981	1.7310465	3.07620592
##	[53,]	2.04065859	2.78270111	2.339616579	0.36824723	-1.4867146	1.41115812
##	[54,]	2.82285778	0.58094296	0.227292366	2.72387296	0.1474233	2.19066576
##	[55,]	0.53228186	4.03094629	0.996326326	1.78397479	3.8305979	-2.10555649
##	[56,]	3.49792687	-0.06623533	0.060557562	0.74201449	5.2181391	1.27339882
##	[57,]	-0.67803413	1.67726349	5.113048844	3.39845201	2.5581950	3.25046027
##	[58,]	1.36448228	1.05255282	0.419453480	3.51384895	0.6085119	1.47250606
##	[59,]	3.75451508	2.09928060	1.949273854	2.92956319	0.5833188	2.32271775
##	[60,]	2.12562747	-1.56623118	-2.498724204	2.54778535	4.4700654	1.37544609
##	[61,]	1.90135260	0.92976007	-0.634185510	0.23824209	-0.7149468	-0.51564393
##	[62,]	5.43584334	1.98514934	1.053532248	4.46144286	1.2138114	-1.52759135
##	[63,]	2.04093590	2.48745852	2.980374497	1.84784551	3.5599368	3.14034193
##	[64,]	6.11955885	0.06149870	-0.463183284	2.53368640	2.2776528	2.59073062
##	[65,]	-0.35277729	-0.10084073	1.771078421	2.20602398	-0.9484386	5.45908086
##	[66,]	2.72539485	-1.66976832	2.986573945	-2.50428466	-0.6908641	-0.88570744
##	[67,]	2.00809734	-1.31772535	2.769161045	4.14861498	-1.8631158	1.38838657
##	[68,]	3.24513020	-0.32426618	-0.900345662	1.37139006	2.1265074	2.39989658
##	[69,]	2.51662863	3.07813069	4.828002646	3.39628231	1.4690445	4.14410332
##	[70,]	0.85183683	-0.03557651	0.450390620	0.24993856	1.1306139	3.39027006
##	[71,]	0.12969340	3.20354339	0.912054174	2.93982207	3.1465879	-0.29520783
##	[72,]	-0.13114848	-1.36022297	2.823906315	3.05666651	3.4604720	2.85788423
##	[73,]	-1.85117430	0.73376918	2.730041479	1.81672934	4.1238521	1.75785221
##	[74,]	1.04204506	0.47807312	3.516163921	0.88323942	1.6745033	3.73271520
##	[75,]	-0.14116370	2.36955324	4.847269903	-0.39022056	3.6303245	0.88180095
##	[76,]	2.49992399	4.96961482	-0.191283204	-2.77088218	1.4328200	1.09717389
##	[77,]	3.97340566	2.45407120	1.320144606	3.93390397	2.8910055	-1.38177607
##	[78,]	1.60540508	1.21468516	3.048337228	1.84968345	-1.3093662	3.88225714
##	[79,]	1.14590958	-0.56657948	-0.786007420	3.21558657	1.9872005	4.24192644
##	[80,]	4.47039380	0.15729885	-2.096346573	0.18065644	5.8144017	3.63769899

##	[81,]	4.59250850	1.45384603	1.386303183	5.47498523	3.0724292	3.26025339
##	[82,]	2.18255340	2.76179494	1.995790603	3.00654241	-1.4763382	0.49148028
##	[83,]	0.20260001	2.39742306	2.972413763	1.42817284	3.7259952	3.66883275
##	[84,]	1.92851483	2.78394745	-1.462677900	4.84168763	4.7344037	3.55121649
##	[85,]	1.26857357	3.52294555	1.432085692	-1.92538439	1.1585351	0.01105084
##	[86,]	2.55561543	2.35558111	6.522753694	-0.67156339	-1.1363609	0.61828183
##	[87,]	2.39347237	2.89448967	5.374005741	1.51357533	5.4599325	3.47552970
##	[88,]	4.33098185	2.33024077	0.080300032	-0.86582958	3.1010152	-1.81654887
##	[89,]	1.19752482	1.35212778	3.915801196	5.07685351	2.5477797	-1.02951220
##	[90,]	0.09561236	1.46616573	-1.584459726	1.28365432	0.5725838	1.80105473
##	[91,]	0.74727874	3.89351695	1.143419613	2.06864537	2.0323294	3.41129030
##	[92,]	3.14595887	4.15862600	1.099152198	2.34237974	0.2299062	1.13868480
##	[93,]	-0.94459729	4.79261420	1.833829395	4.29116369	1.5612828	4.59732471
##	[94,]	3.09543316	4.03437748	-0.643102121	1.33165217	3.8031295	4.04836408
##	[95,]	-0.15675819	-0.98631525	0.434739226	4.41853186	3.2251110	-0.10621051
##	[96,]	0.76123775	-0.75211878	1.941504791	0.41593840	-1.2469082	5.06674262
##	[97,]	3.88629484	-1.13133727	2.271664680	0.14407324	-1.2017722	1.77252198
##	[98,]	-0.27824707	0.85179708	-1.658558741	3.63461259	-0.1944369	1.74538365
##	[99,]	3.78990101	0.91141597	0.124429434	0.08587889	3.1460523	-0.82174963
##	[100,]	3.12124629	-0.07002084	2.842276047	1.98683433	2.2575645	2.42515751
##		[,53]	[,54]	[,55]	[,56]	[,57]	[,58]
##	[1,]	0.45437528	3.92251708	4.94868356	1.34621311	0.68093384	5.14107057
##	[2,]	-1.46771861	0.62204950	2.80416257	2.18521378	1.54784298	2.91731068
##	[3,]	3.54928937	0.15984991	0.01311659	-2.79186572	0.57290435	1.40424007
##	[4,]	3.10907427	0.93062085	5.27194574	2.34836042	-0.13486267	0.61014370
##	[5,]	3.31304713	-0.05875503	0.52310887	-0.65988795	1.47676856	4.76125963
##	[6,]	0.02689916	-0.63551489	0.60662002	0.26509851	-2.34387737	3.51864964
##	[7,]	1.96861073	2.77587919	6.44032608	3.09558540	1.38035462	-0.31391834
##	[8,]	4.11950240	1.43137286	2.90657081	1.99972101	3.15295323	-0.09097499
##	[9,]	2.94334997	1.88146711	1.98843103	2.36446028	3.24942945	1.88675251
##	[10,]	0.81477470	2.67092038	0.81443258	1.00215835	2.65856039	3.69228421
##	[11,]	-0.25030866	0.18702675	5.85107592	1.85004908	2.77764552	3.09368540
##	[12,]	-1.40440398	1.50902468	3.11239703	3.55955507	1.58790412	2.44610545
##	[13,]	4.76793243	1.48473374	2.09232001	2.21281729	1.93559224	2.73020138
##	[14,]	3.06257530	1.05494343	-0.79742811	-1.16719130	3.89895945	3.49149737
##	[15,]	1.79575411	4.75444943	1.83496244	4.20619349	5.35474779	4.13764101
##	[16,]	5.47075091	1.10208929	0.25366238	2.18487263	3.03939663	1.56232267
##	[17,]	-2.47287196	3.06875346	2.24787165	2.24903401	0.07490654	-0.56897826
##	[18,]	5.37170828	4.18162786	4.82313637	1.02834672	2.13020388	2.35704682
##	[19,]	2.45285649	-0.59337641	0.11095921	5.34563006	3.52013664	-1.08743764
##	[20,]	-0.39327923	3.04848389	2.87469699	3.32545625	1.27745867	4.43145358
##	[21,]	0.34485213	-1.51506614	2.40012692	3.15986696	5.18661617	1.81923317
##	[22,]	1.24035340	1.69740443	3.70118153	0.86236844	1.46874701	3.04058734
##	[23,]	1.05480083	2.21955052	-0.53603157	-0.55459210	-0.50317557	2.49539759
##	[24,]	2.08567361	0.10391869	2.15513521	0.44537074	2.17943366	1.88775429
##	[25,]	3.53505230	0.57288180	2.71103064	1.29162121	2.89672745	-0.28980894
##	[26,]	3.62227159	3.02357057	-1.45999913	2.42099631	3.10092020	6.81058656
##	[27,]	4.07846958	2.83873759	0.27502070	0.68371686	0.63892987	0.50517714
##	[28,]	2.73843876	-1.78331511	1.39963509	1.41515945	-0.10363440	0.32010881
##	[29,]	3.18587505	0.25650809	1.19473993	2.74358615	2.31759984	0.63081187
##	[30,]	1.53345090	-1.47647535	0.50688533	0.10142658	3.06453688	2.48854847
##	[31,]	2.00677386	4.55228396	1.39425550	2.67239200	2.39957717	0.83942702
##	[32,]	0.84662262	2.21314233	2.19242222	6.55612271	1.83380278	0.04078563
##	[33,]	2.33810449	0.51800558	4.76546720	-0.11862198	1.30352319	4.96560615

##	[34,]	1.83095602	5.91978719	2.31491684	3.36705643	3.35361442	1.33177819
##	[35,]	2.82784220	2.32253531	0.66656463	0.47090386	2.88650034	1.76430138
##	[36,]	2.63770506	2.55005888	1.80752441	2.92412710	-0.04390898	-0.20133685
##	[37,]	-0.92583563	0.95407714	3.10429420	1.04972447	1.65273245	3.44208144
##	[38,]	0.31271966	1.66026831	0.76392749	3.70764221	6.61483824	2.92304922
##	[39,]	0.61238844	0.59988215	0.61679110	0.46029539	1.39482251	2.24388649
##	[40,]	-0.81161610	2.25068068	2.32951373	6.02053273	4.05446108	-0.91484758
##	[41,]	-2.52718249	2.09221297	-0.02123536	1.71589078	2.95885106	0.84554894
##	[42,]	2.35141753	4.30207428	2.49673713	0.88534450	0.24323652	0.66145229
##	[43,]	0.39227523	3.42606778	4.22679606	3.10074390	2.34269578	2.37622271
##	[44,]	0.77561330	1.74202771	1.76936933	1.01589734	2.88805324	1.50720566
##	[45,]	-1.13993504	4.10230537	-0.38694739	2.17357945	-0.29977443	1.93622087
##	[46,]	1.51442549	-0.30987384	2.85317729	0.73391242	2.67035455	4.24925203
##	[47,]	0.94832381	4.00654605	1.63542014	-0.73165397	5.86182619	2.51214147
##	[48,]	4.66033847	1.82655658	-0.62564076	2.80715839	2.19664091	2.95743573
##	[49,]	3.28347125	1.09634033	5.89028117	1.28658081	3.21298852	4.70604680
##	[50,]	4.52838863	4.69984009	-0.55720111	-0.24793914	0.28121479	3.84632561
##	[51,]	1.29641347	1.73845232	2.49412959	1.79109108	4.34029273	6.69109033
##	[52,]	2.50781587	3.86023122	3.99908532	3.45220450	1.68914431	-1.16152050
##	[53,]	2.52632886	2.31604211	2.49234365	1.77375476	1.62203190	2.18224415
##	[54,]	0.90717561	-0.96002563	-2.03174585	1.73872385	0.17594973	4.05969484
##	[55,]	0.02291585	1.17042323	1.73421298	1.21770828	1.31110243	4.57608029
##	[56,]	1.70006570	0.09745033	2.25173465	0.05002063	2.22980730	1.00636602
##	[57,]	0.16895868	4.19634133	0.49721244	6.74460115	3.45775595	1.11852936
##	[58,]	2.41232333	4.59616385	2.11375063	4.27663544	-1.63404654	3.88373807
##	[59,]	-1.99261445	0.42154660	0.05766970	0.30234988	2.52058883	3.14329703
##	[60,]	1.15038032	-0.95956298	0.64737111	-2.77190367	2.76748584	1.45676380
##	[61,]	1.90899342	-0.45747048	8.02394927	0.82083939	0.23796715	4.32462516
##	[62,]	1.97528421	1.81981529	-0.03458431	4.12074210	0.35591413	0.08290895
##	[63,]	1.30050617	2.27463149	1.71826805	1.41537256	-2.59758284	0.18503006
##	[64,]	1.90001897	1.29866553	4.84081354	2.93649819	1.06753220	0.34907226
##	[65,]	0.56064648	2.34858584	3.71720534	2.42472758	0.96003095	2.04853415
##	[66,]	1.79339665	3.33658078	0.88590692	2.76264671	-0.82477228	0.87201268
##	[67,]	1.80201050	4.66988552	1.95818759	0.41068060	0.95510198	2.70948953
##	[68,]	0.48484812	4.27883448	-1.14646080	-1.60376209	4.47030964	3.21141690
##	[69,]	2.69675779	1.41259766	3.85490969	2.84839554	1.91162210	0.72762429
##	[70,]	4.63691161	5.24241281	-0.51136565	2.06608874	0.37836810	1.07085616
##	[71,]	2.52201427	1.76333906	3.40999465	2.57092438	-0.03753331	-0.60052268
##	[72,]	-0.84943995	1.23544768	1.91705112	0.14871899	2.57420661	1.33988251
##	[73,]	-0.78244762	3.07064663	1.09418043	-0.28550537	2.71295576	2.12170465
##	[74,]	-0.02605162	0.59057700	3.38934788	4.11991399	0.23399271	1.48057820
##	[75,]	2.29418521	1.21771994	5.39220083	2.55338579	3.02340318	0.22107085
##	[76,]	4.75291660	1.85919542	3.61082011	0.77488805	3.09020311	-0.30434569
##	[77,]	1.07660071	2.19339871	4.31059638	0.97955694	1.95862120	0.77783131
##	[78,]	1.31240562	0.43317934	2.22449017	6.04762052	3.51709851	3.12924468
##	[79,]	0.80051344	1.70997315	2.40533329	2.23632497	3.54744313	2.28758183
##	[80,]	-0.14064742	1.93850777	1.97923617	3.50822494	1.28294165	2.18347839
##	[81,]	0.47906270	0.10926320	2.26140893	2.33452688	2.81306622	2.95831436
##	[82,]	0.43498801	0.99977373	0.78257038	2.27282574	3.14999737	3.08271855
##	[83,]	1.37216858	1.08866105	4.92012448	1.54262461	0.49505957	5.13732061
##	[84,]	2.32939701	0.30383348	3.31423332	2.41215774	1.62571175	3.82185532
##	[85,]	1.19397993	1.17195047	0.85382772	-0.21711716	-0.02425309	1.32536055
##	[86,]	3.49889438	3.13151657	-0.15225492	0.80238712	2.82600405	0.46854609
##	[87,]	0.02279625	2.10708083	0.53479602	3.07320619	-1.19733615	0.84368766

##	[88,]	-0.45665383	1.29107566	3.52878545	-2.37823520	3.70464307	2.32196897
##	[89,]	-1.99751939	1.33887236	3.45280982	2.86046488	-0.14580139	0.06524334
##	[90,]	2.62782888	2.53983773	2.65092126	2.36064393	2.89113903	2.07898705
##	[91,]	1.43655523	2.44236112	0.27384304	4.73340057	5.54667980	0.95646670
##	[92,]	1.35256942	3.66054877	2.81010342	1.20014646	0.11586019	4.14279943
##	[93,]	2.71234443	-0.54171718	2.24005772	-0.89845433	3.49574653	4.80780386
##	[94,]	4.23135026	-1.01369245	4.38369186	4.01185793	3.62184501	-0.77305811
##	[95,]	1.86455855	2.32095951	4.94461626	-0.15928428	2.57947160	0.55638357
##	[96,]	-0.07138177	0.88289723	1.20071537	3.17587862	2.12149086	3.78658882
##	[97,]	-2.12120578	0.72129104	2.62817315	3.55784234	-0.35170699	1.01039173
##	[98,]	5.48292054	4.08698327	1.06547477	1.48174687	2.59102888	0.73184922
##	[99,]	3.23690952	3.58483245	0.92515171	2.28623500	1.60375485	-0.92013013
##	[100,]	0.65670495	-1.11425977	3.53402036	-1.38055100	-0.28076208	1.41491551
##		[,59]	[,60]	[,61]	[,62]	[,63]	[,64]
##	[1,]	0.70189448	1.65702703	2.766512846	3.49160835	2.93396961	2.11627367
##	[2,]	5.11781890	3.26718374	-1.582689198	4.21554699	2.78652488	4.77655889
##	[3,]	0.44342203	3.19059286	-1.356203778	0.32626865	2.31658905	0.84575294
##	[4,]	-0.52457944	4.46927001	3.584637841	1.31314284	3.99963687	1.22040315
##	[5,]	3.13315715	-1.09740821	3.996429260	-0.26310602	0.89743318	1.83241323
##	[6,]	2.74322643	0.97749422	2.296685015	2.17714867	2.95925021	-1.96912524
##	[7,]	0.44939289	0.28894617	2.106008105	-2.15127546	1.04107442	2.21506765
##	[8,]	1.27709333	3.64082400	2.703096442	3.86642777	2.61866622	4.70788235
##	[9,]	0.33902989	1.86209027	0.411893005	1.55487219	1.26402380	1.56939260
##	[10,]	-3.49885046	3.91216716	1.814732884	6.61976428	3.74576204	1.53549870
##	[11,]	3.14766383	2.75146407	2.764471408	1.69939352	3.48520222	0.15758301
##	[12,]	2.44656048	2.57096129	0.554984450	1.77201599	-0.61434747	0.18456762
##	[13,]	3.59133970	-0.74461445	2.202399602	-2.24043957	-0.09603153	-0.01537756
##	[14,]	4.51098104	2.29840743	1.849216508	2.25341310	0.02787786	-0.05394983
##	[15,]	2.05909789	-1.33165525	3.053124659	2.36561456	2.33937537	5.78230533
##	[16,]	3.22374911	1.28995613	1.780790073	1.41912368	0.08607412	-0.47471520
##	[17,]	2.32944484	5.23869975	2.196329666	2.77500291	1.75171257	2.43303427
##	[18,]	0.77257547	3.63196588	2.374513602	2.77689100	-0.92220243	0.14120310
##	[19,]	0.87326420	1.65607056	-2.527466069	-0.90940506	4.97525231	2.35659397
##	[20,]	2.89502597	3.26750295	1.377845469	3.96356415	0.24127241	0.39014823
##	[21,]	0.92235384	-0.89500342	1.200000110	2.34837597	2.49208641	-2.62582477
##	[22,]	3.91595676	-0.32688300	2.900195495	5.78735337	-0.66746678	1.52200440
##	[23,]	1.04560063	3.16757909	4.928701018	2.66456444	1.42944306	2.28547872
##	[24,]	1.13113645	-0.11775315	0.563245695	0.78644596	1.12098735	1.44942840
##	[25,]	5.88226370	-1.47039345	2.163580445	4.22560108	0.75823291	2.66770560
##	[26,]	1.80681399	5.38913484	3.651479291	1.49854490	-0.36323187	6.11521991
##	[27,]	3.29677927	0.78131294	-0.362820942	3.39672268	3.52951506	3.34271614
##	[28,]	0.36460685	2.35458139	1.558646015	2.01203653	-0.80881103	3.18188769
##	[29,]	1.85237807	2.29731253	2.673595397	1.79863598	1.05236210	3.54427931
##	[30,]	1.69883957	4.34087757	0.067631710	2.72525132	5.06722387	4.64479751
##	[31,]	3.91962645	2.99756377	-2.475035204	-0.31363978	1.88587132	2.24501467
##	[32,]	6.36117766	-0.21999653	3.978863629	1.12542485	0.24176603	0.66786541
##	[33,]	1.44425530	2.70126594	3.174139438	4.89621661	3.41497072	0.31124203
##	[34,]	2.58349206	2.45927850	3.209247704	2.27164066	1.46277620	2.33785677
##	[35,]	2.04579032	2.09505978	4.696412741	1.63268691	1.13460279	3.10722678
##	[36,]	1.03439997	1.85137362	3.486033964	2.21866571	4.56506872	5.14064360
##	[37,]	3.21420514	1.52125982	3.115515732	2.69167537	6.10171626	3.33347666
##	[38,]	2.45534418	3.78537390	-3.021421381	-0.03752103	3.09700687	2.48068624
##	[39,]	2.22895409	0.07017372	1.202426985	1.10446339	4.08708375	2.11306935
##	[40,]	-0.98575633	3.61670006	1.290375848	-1.06840842	3.22418466	-0.50300063

##	[41,]	1.09292688	1.39905813	1.123204075	-0.20070270	1.92321226	3.74981015
##	[42,]	1.33258508	1.05081396	1.719289812	1.12270620	3.31585991	-2.23732253
##	[43,]	-0.16644746	0.96034722	1.450594395	-0.58009105	1.71983498	3.05560737
##	[44,]	3.92003137	2.01879232	1.676136560	1.90464416	4.08255057	0.86582587
##	[45,]	-2.04177823	0.89199997	-1.129950716	3.65027272	1.24029034	1.68618568
##	[46,]	5.48448057	4.07642342	2.454014015	5.43699777	5.43873402	3.08835963
##	[47,]	6.68553879	0.95215355	0.805462472	2.91700444	3.32343303	-2.11257607
##	[48,]	-0.66936930	2.04469948	2.031153475	0.61691571	3.24513864	1.77298915
##	[49,]	2.69630912	0.84638678	3.622811482	3.97401934	0.86271810	1.45578506
##	[50,]	1.54124674	1.97924784	-2.849326195	1.45305393	1.43841911	0.15250477
##	[51,]	-0.39086536	0.60507054	0.814738007	1.01990588	0.48551990	0.08201311
##	[52,]	4.26364160	3.26476485	0.311147122	0.76276788	-1.15409209	-0.57186216
##	[53,]	5.94001961	3.56207023	1.555283212	0.76476690	0.12421917	2.71005043
##	[54,]	3.93768960	-0.81594887	1.905164029	3.63777275	0.49253914	-0.44715365
##	[55,]	1.08426399	4.49003012	0.367453785	2.46205319	3.92860861	-0.38479524
##	[56,]	4.91678570	0.89557085	2.965550436	3.09455793	6.20791874	0.48328681
##	[57,]	1.46542328	-0.18687706	1.883176170	0.26492760	2.30773679	0.82279070
##	[58,]	3.81595726	0.45386856	0.977049801	2.75675829	0.25248097	3.27458746
##	[59,]	4.18904717	2.99489797	2.158345725	2.10369801	4.03847417	2.10003083
##	[60,]	4.72474146	6.91815342	1.557936102	2.70641473	1.95002919	2.00009208
##	[61,]	-3.71935919	3.23714094	3.786355355	1.61897483	1.74608550	1.47198972
##	[62,]	5.26242895	-0.66241177	6.703585576	-0.34297277	1.25726980	2.42794079
##	[63,]	-0.20848911	3.09691776	2.563398673	0.96189171	2.20819499	2.44759832
##	[64,]	1.04429148	3.42892028	3.134506622	3.15483523	0.68284527	2.64569785
##	[65,]	-0.39227764	4.20464659	1.380667853	2.16872368	2.90121939	3.21766894
##	[66,]	1.13421230	0.38719442	0.589581452	1.32647557	-0.31605797	1.87988416
##	[67,]	1.23144558	-0.65656262	-1.317609488	5.14543550	0.47964270	0.57052596
##	[68,]	2.64806823	1.93208245	-2.983782211	3.76215038	3.24452026	0.36538364
##	[69,]	2.25980408	-2.87004598	4.266919653	-0.91330712	-1.15980295	-0.35375718
##	[70,]	0.17622355	2.54695402	3.955453091	0.30762163	2.42379696	-0.62866368
##	[71,]	-3.07552780	2.35371263	2.435396933	5.04863301	3.79825025	-1.09630639
##	[72,]	0.27766451	1.13444681	2.053453369	4.15324698	0.67569645	4.78390416
##	[73,]	2.60128944	2.51369280	2.036655607	3.33875392	2.63771142	2.54338909
##	[74,]	1.37602539	2.70139931	3.909168390	2.93863716	1.08235621	-0.99370802
##	[75,]	3.18305783	3.23308922	5.554534539	3.59241271	1.29135488	2.63513925
##	[76,]	5.25926781	1.19176650	0.774452422	-0.24737863	2.09945130	0.91577053
##	[77,]	-0.08339304	0.17120848	1.114794459	-0.64996076	1.14267673	0.97058304
##	[78,]	1.76327004	1.42734504	1.364368323	2.24416407	2.28593834	2.10801419
##	[79,]	0.20261732	1.86282454	-0.570987817	4.16174945	1.83230032	1.80410663
##	[80,]	3.80719296	0.90557241	2.889785078	3.29250315	1.98477838	1.97362397
##	[81,]	0.87568329	3.17698314	3.434051694	1.39599592	5.20935411	3.63299040
##	[82,]	4.38648745	0.36295816	-0.007769172	0.45737356	1.35209326	3.64888972
##	[83,]	1.38130547	0.77286345	1.673208908	0.43680456	3.48371623	4.03123744
##	[84,]	1.61188835	0.13116618	1.668512683	7.42476775	2.75047505	2.30076794
##	[85,]	-0.08718539	0.70808406	-1.656234498	3.67460038	-0.49252197	2.66485975
##	[86,]	6.43322499	-3.18013094	1.769729655	2.00042029	0.68136560	3.77068343
##	[87,]	-1.03563511	3.38619142	2.106755959	2.87368800	2.40746542	-1.32724545
##	[88,]	1.08094549	1.17838940	1.223207075	1.72829572	2.83335645	1.53672629
##	[89,]	1.06056186	4.34665606	2.594688797	1.35930432	-0.39458245	1.35142299
##	[90,]	3.28763564	2.38511860	4.862347212	-0.38189238	-0.70703938	-0.72923951
##	[91,]	0.99665574	0.37592862	2.630268389	-1.92800197	2.11844874	-0.28721703
##	[92,]	2.28904376	-0.85945677	0.642520315	2.04010912	2.91892246	1.35846527
##	[93,]	-0.51656494	0.64847564	1.008000060	2.45157226	4.66896727	4.23166822
##	[94,]	3.41062551	2.90994425	2.083032447	4.87477217	0.08781899	2.00632200

##	[95,]	-0.76734359	0.30603227	-1.719227854	3.46991546	1.75430953	2.31990176
##	[96,]	2.62582315	1.56762328	2.966337030	1.57189790	0.47634896	1.14514710
##	[97,]	-0.14709925	-0.55066420	0.635946229	1.58051007	3.58124081	-0.79405392
##	[98,]	5.82930542	0.41820735	1.313746716	-0.82955138	1.26381489	3.85706065
##	[99,]	3.04021878	4.46027235	1.216311275	2.77951510	0.79439040	0.13937163
##	[100,]	-1.38913296	0.80080360	1.281154465	6.79170319	4.97429946	-3.60252544
##		[,65]	[,66]	[,67]	[,68]	[,69]	
##	[1,]	3.661139890	2.33239442	-3.521869002	4.34427573	-0.89814454	
##	[2,]	2.691804956	1.32381112	-1.775360339	2.96521240	0.48554356	
##	[3,]	2.840104065	2.62379723	1.562851946	-1.45015088	2.61194744	
##	[4,]	-2.073778798	2.10436238	1.230151980	2.01213161	0.70854723	
##	[5,]	1.486883591	0.29419863	2.608291275	0.94010883	2.88320944	
##	[6,]	1.556975473	2.23886593	-0.317599605	0.44846898	1.92502900	
##	[7,]	2.055032607	1.59013394	2.665879785	4.51849614	-0.48117168	
##	[8,]	2.485631942	0.84883891	2.537470371	-1.28575002	4.64353800	
##	[9,]	0.156591868	2.64265566	1.926434839	1.26972146	1.23161464	
##	[10,]	0.368096873	0.38868615	2.121622213	1.65735493	0.94049780	
##	[11,]	-0.935635298	1.00237456	-0.267709714	1.09226247	2.70300969	
##	[12,]	3.338725262	-2.33641402	3.655958529	-1.61678893	-1.42342248	
##	[13,]	2.082906361	4.40122794	2.947696224	2.44727907	1.56175938	
##	[14,]	2.434197557	1.55565940	1.380723566	2.18309268	2.30153286	
##	[15,]	-0.095478442	0.33618655	1.685586781	4.43719497	1.31061862	
##	[16,]	-0.765175234	0.04855041	2.639592866	-0.14247284	4.04984339	
##	[17,]	0.814701931	-1.45805701	2.710582112	5.15234470	2.83217368	
##	[18,]	-4.635327137	4.22066574	2.076809794	-0.10062632	2.27024980	
##	[19,]	0.882532962	3.61462115	0.784042413	0.35030660	-1.47734173	
##	[20,]	1.442203281	2.13966276	3.561511286	0.97330242	2.07548034	
##	[21,]	-0.078442810	2.18878532	-0.295020424	-1.81172177	-0.09576618	
##	[22,]	3.768378923	2.59392982	3.625895157	2.28265426	1.33708672	
##	[23,]	-0.880417713	1.49484232	0.802398385	0.51008580	1.33122964	
##	[24,]	2.711874773	2.45187697	-1.377174049	2.13120490	6.49687148	
##	[25,]	0.477058002	6.24495633	0.865862770	0.54353568	6.31619130	
##	[26,]	1.259588748	3.55850481	-2.790775977	3.63786213	4.02687167	
##	[27,]	2.986698413	1.77213230	4.566004387	3.50432092	3.25466116	
##	[28,]	2.931576286	2.61600982	0.712310568	0.86901163	2.28023118	
##	[29,]	1.419844137	2.78254985	3.128807591	3.24352338	-0.98519712	
##	[30,]	-1.424898448	1.65332895	0.891314155	1.21023766	4.71113917	
##	[31,]	0.509017737	2.55792074	3.882772824	4.27846188	2.86405534	
##	[32,]	3.362046504	1.72452351	1.025650610	-0.49372732	-0.26516889	
##	[33,]	-3.121573317	0.33009579	3.638548073	3.38224656	1.31197028	
##	[34,]	5.855820532	-0.43157864	-2.920860194	3.17608419	-0.12577312	
##	[35,]	2.091795521	0.57592981	1.714895168	4.17779248	0.60170534	
##	[36,]	-1.014410697	1.39584238	1.662141132	0.92323169	-1.38723322	
##	[37,]	0.124176291	2.69103842	5.719284870	0.17037242	2.89869439	
##	[38,]	1.193680190	0.69781099	0.981552191	0.82222231	3.12105942	
##	[39,]	2.699644779	1.85183750	5.216589416	0.50510479	-2.59277327	
##	[40,]	2.214269717	1.65281914	0.007927486	0.35847862	2.37403006	
##	[41,]	0.375471709	0.07950356	5.273272441	3.92623359	3.67742747	
##	[42,]	1.411902973	4.37312635	1.857341805	4.15156686	1.34718791	
##	[43,]	2.466283375	1.81651596	1.174994998	3.94255790	2.61553952	
##	[44,]	3.971486716	2.82091238	0.876012520	6.30495655	1.31274949	
##	[45,]	1.661840437	1.58352495	-2.508794892	0.29968549	1.95253056	
##	[46,]	1.129495397	2.63842308	3.245640451	-3.28328832	6.00981670	
##	[47,]	1.617333901	2.01716555	0.934564696	0.69410320	1.24419310	

##	[48,]	3.462162806	-3.02493447	4.520743438	2.31528051	2.81713980
##	[49,]	1.202672753	2.64484580	4.512631229	3.22676838	2.88373126
##	[50,]	-0.136414267	1.46003891	2.221238317	2.34105354	-2.62342668
##	[51,]	1.166870384	0.05330685	3.169989937	1.34352587	-0.84588578
##	[52,]	1.228452522	1.02694144	2.841361815	0.58910256	0.19004462
##	[53,]	1.638349151	1.09715773	2.516805068	-0.48037292	-0.01492958
##	[54,]	2.523397837	3.16146047	0.776587997	1.92349979	1.41108021
##	[55,]	2.828159228	0.37212640	0.112893854	3.98566422	-1.89877937
##	[56,]	1.631685719	1.21732744	3.080670701	-0.27584969	2.90100739
##	[57,]	3.421592350	3.81581205	2.218242012	-1.26392394	0.18088609
##	[58,]	0.738204901	-3.39026841	2.795394320	0.92862964	5.20059491
##	[59,]	1.331267123	-1.35558757	-0.313292385	0.54659787	4.33750395
##	[60,]	0.948225516	6.19830254	1.499270977	1.13767053	1.73494785
##	[61,]	-0.217973416	0.82207518	1.606367231	1.68309866	1.07885405
##	[62,]	0.394496691	0.72701896	1.624885242	-0.02056780	0.70730455
##	[63,]	-2.618557553	1.44809835	1.722456853	2.37196489	1.99849993
##	[64,]	0.809641704	1.14448234	3.695168378	1.65987226	-1.36006037
##	[65,]	1.000871894	0.40939767	2.093181798	3.98706075	0.43374912
##	[66,]	2.667151306	0.09217792	1.256733815	3.97357064	3.64974561
##	[67,]	4.138638130	1.30709608	2.340179267	2.64567790	3.79723216
##	[68,]	4.078841192	2.18314227	-0.603046081	0.74729402	-0.01669250
##	[69,]	3.019843349	1.66554931	-0.588200531	1.54136579	2.43816696
##	[70,]	3.145603578	2.42473046	2.798079535	2.05745407	4.29631959
##	[71,]	0.239731028	3.70869158	2.439205395	2.21974722	1.73302172
##	[72,]	-1.266195545	1.12070164	1.593495378	2.05245688	-1.70380105
##	[73,]	1.772361728	1.38588493	1.878019184	3.31910754	1.05507498
##	[74,]	1.805110107	5.22719709	1.863092809	3.51864389	1.35991982
##	[75,]	1.061846854	0.36927269	2.464992338	2.64861555	-0.89454263
##	[76,]	0.060774591	0.87118018	2.755185411	2.08708891	0.14353412
##	[77,]	2.660823694	3.05558589	1.094728076	0.03071201	1.65118561
##	[78,]	1.240901190	2.28929521	4.372328334	4.19095071	2.81535767
##	[79,]	2.652844423	0.43077459	0.257476095	2.82225134	-1.19473433
##	[80,]	3.951341045	2.37889629	0.409119717	3.19917315	4.51046258
##	[81,]	1.918949271	0.38786791	0.872911233	2.72793298	1.47188991
##	[82,]	0.006673596	1.69670547	-0.776223460	-2.26440128	-0.61150208
##	[83,]	4.130525970	-0.25634376	2.367965604	2.63364277	-2.18542200
##	[84,]	-0.063296531	1.44858456	1.378373520	2.51395187	2.74089434
##	[85,]	-0.795985382	3.25368121	-0.804665706	0.90745484	1.37764427
##	[86,]	-0.113638607	2.85018623	0.192657161	4.59451381	1.07841445
##	[87,]	1.953113277	-0.77555903	0.552242723	2.47256309	2.19528935
##	[88,]	3.442447109	3.00856685	3.880621559	4.38120432	4.76932661
##	[89,]	2.353910346	1.40732250	2.104786212	1.68846916	0.48159586
##	[90,]	2.637546438	4.21126842	0.319364919	1.00117607	1.88614896
##	[91,]	2.913267945	-0.71960683	0.895296214	1.62127643	1.83287363
##	[92,]	2.114681738	1.77516313	4.750664434	4.23065732	3.73008052
##	[93,]	1.385325646	1.76567722	4.857507504	3.75014869	1.62862374
##	[94,]	-0.132575032	-0.56422992	-0.621055381	-0.44833606	-0.19300824
##	[95,]	-0.436642081	-0.16600206	2.277014161	4.80704536	1.99979081
##	[96,]	1.211251382	0.40131107	6.739576728	3.65812238	4.70872076
##	[97,]	-0.642081409	0.84061887	0.719778416	-1.82504590	1.66090931
##	[98,]	0.801065858	3.28987420	2.704079960	4.26610180	3.93679569
##	[99,]	0.896035487	2.00671089	2.236196212	0.97759813	3.09573579
##	[100,]	-4.133141755	3.52164051	1.635173177	5.20020203	4.80963653
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##	[34,]	-2.459199273	0.66259742	-0.12295960	1.96375371	1.31571814
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## [96,] 0.331732901 5.64994421 0.07946900 3.07766277 -1.01922092
## [97,] -0.853667911 0.05360227 1.10272066 3.33255081 0.59436952
## [98,] 1.935327398 -0.48397137 0.81801117 0.63185461 0.72030620
## [99,] 3.407191619 2.39129020 2.56741946 3.48716046 -2.30748263
## [100,] -1.156675228 2.34110938 4.67136062 5.55093849 0.10868267
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## [2,] 1.6536249096 0.479943238 -3.85466894 -1.2341297 0.148258682
## [3,] 1.1134822782 4.694247591 4.34943694 1.6038217 0.424490079
## [4,] 1.6203797843 -0.326099833 2.47284561 1.7169110 0.596434788
## [5,] 2.0538773506 1.371815675 0.01864783 2.3998887 2.747553608
## [6,] 1.8936117728 0.888677610 3.14738377 6.7029742 0.474675314
## [7,] 3.2618253541 4.001241055 -2.62780125 4.8897119 1.264582625
## [8,] 3.7577179044 1.193990895 0.32696769 1.0786050 1.968828165
## [9,] 4.0416114751 4.626375981 1.29147276 1.6227226 0.799363013
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## [13,] 2.0005191305 3.327772993 3.27145431 4.9638921 0.555950515
## [14,] 0.7299474667 0.492602724 4.88953050 1.7511772 2.436292553

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##	[15,]	1.6305934482	-2.594363893	1.90440734	2.5861174	-0.589616484
##	[16,]	4.0578838704	2.888740432	-1.70003361	1.1010931	0.924177377
##	[17,]	1.6126577026	0.304202786	5.01883025	4.8299102	1.940321791
##	[18,]	1.4454341902	5.815742689	2.99059417	0.7570766	2.594948285
##	[19,]	-0.2416491849	1.993500416	3.51818292	2.7967679	1.080624000
##	[20,]	1.3910359950	0.671718325	2.21088529	2.3318663	4.013437517
##	[21,]	4.1688670174	3.075491869	1.63524527	0.2775483	3.461417987
##	[22,]	2.6684971465	4.113455222	3.30307855	2.0023258	2.402324877
##	[23,]	-0.0002298906	3.923625692	1.49830036	0.6633571	2.266513607
##	[24,]	4.0049970382	0.273809409	0.99909006	1.6322736	3.359163197
##	[25,]	3.1274842080	1.845679393	5.44288239	2.2149616	3.222462951
##	[26,]	0.1145043700	2.362688669	0.83998316	2.5344312	5.015046804
##	[27,]	-1.4153010417	4.786292338	-1.00678708	4.5366409	0.002988627
##	[28,]	0.8826937916	2.293940035	0.49239388	1.2996132	3.439243899
##	[29,]	1.7361721507	4.688040560	0.90581831	2.7186372	3.626721999
##	[30,]	1.2354241417	3.097949824	0.34876947	1.0894100	3.510080962
##	[31,]	3.0692405336	1.873267412	-0.27612426	3.4325380	3.272433744
##	[32,]	-0.2449303986	1.330546590	-0.35424647	0.5096686	2.737306037
##	[33,]	1.5513419773	-0.008964133	0.96505483	4.8961641	3.797789576
##	[34,]	-1.1655556609	0.645426133	-2.14758048	4.2181727	-1.847200415
##	[35,]	1.7531823528	1.207186827	1.54239642	1.0909594	1.363437597
##	[36,]	2.0871706081	2.222786975	0.55484361	5.2931137	-1.267837751
##	[37,]	3.1882761169	5.256968510	1.40367578	1.7475747	-1.409263366
##	[38,]	4.6603009021	2.453102738	-0.59491480	1.1281504	0.617357852
##	[39,]	5.0033621494	3.672130877	3.10968237	-2.7066373	2.836753075
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##	[41,]	2.9126137837	0.630424609	0.22401904	3.0158297	0.294480275
##	[42,]	2.0754706372	1.463565269	2.68158717	1.9121179	1.472839227
##	[43,]	0.7572699700	2.150154890	0.04832564	0.5760488	5.216560854
##	[44,]	0.9810874642	3.448521580	2.91380176	0.3503370	1.537432252
##	[45,]	1.6573932256	0.497950261	5.45309810	2.6608073	0.099395596
##	[46,]	2.2589694427	0.852919634	0.18050698	1.6885959	7.103558357
##	[47,]	-0.3905125841	3.092854162	3.83078618	1.3424827	4.741661100
##	[48,]	2.1058096130	1.570235357	0.34230444	3.5107079	4.273848928
##	[49,]	-1.5172278701	3.916972201	3.83551347	1.1055675	2.976521117
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##	[52,]	2.1929487376	3.243804778	1.29593871	1.5457691	0.550666852
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##	[56,]	4.8978660380	2.802023263	2.39458614	1.1071823	1.257672667
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##	[58,]	1.6227084374	2.234075174	0.51588108	7.0445783	-0.438244675
##	[59,]	0.8022503174	3.472964978	3.34910323	1.1538746	2.140703038
##	[60,]	5.9444581693	0.689904086	0.29287502	2.5467303	4.404341009
##	[61,]	0.2108516173	2.282097947	3.36346566	-0.7807561	1.822902679
##	[62,]	0.0263831801	1.319184783	0.85262633	4.7556302	0.208898118
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##	[66,]	2.0135688694	4.747971310	-0.13685109	0.8513586	3.571358904
##	[67,]	3.5167179348	2.679298106	0.80192488	4.9604431	1.549742836
##	[68,]	4.9354246507	2.948144077	3.01529064	1.0647712	2.082116013

##	[69,]	-0.0278823626	1.362295198	2.10846504	2.8463316	0.470684473
##	[70,]	1.9791696977	4.348557611	2.09824437	3.7217497	0.881855856
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##	[74,]	0.1244326024	0.554990320	4.18641896	5.1061142	3.481288932
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##	[85,]	2.7677616486	0.151836959	4.49076749	5.7338390	1.627788120
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##	[88,]	1.0096442313	0.944134292	2.38880891	-0.5326847	2.235209104
##	[89,]	3.1231892432	2.021749088	1.80229861	1.6384523	4.636227677
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##	[91,]	4.1310340841	3.591683671	1.97215472	3.5064173	-0.647401888
##	[92,]	1.8972436079	4.180904905	-1.11827006	3.5622003	2.110212263
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##	[94,]	-2.1927017493	3.167557601	0.37036326	4.6968334	0.234054403
##	[95,]	0.8401999070	1.464757419	3.85413448	1.7461987	3.532544162
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##	[98,]	4.2017015329	3.586795726	4.13158872	3.1217513	-0.999541848
##	[99,]	5.4701816203	2.743242514	3.71028325	1.3699874	-0.655329831
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##	[10,]	0.27180413	3.154851660	1.78683242	0.6630289846	4.44385834
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##	[14,]	1.65075771	1.417870540	1.10152255	-4.8963802755	1.79161686
##	[15,]	0.04381971	0.117772753	2.48382916	3.8191645555	1.47440374
##	[16,]	0.28755933	5.356804444	-0.01969473	2.9572011179	3.02251161
##	[17,]	-1.57438804	4.322904187	2.81018736	0.1994268225	1.52651602
##	[18,]	1.67099225	1.392145575	0.88495726	2.0112153233	4.48007596
##	[19,]	3.60071725	-0.888807140	0.72722438	1.2483691674	3.29294877
##	[20,]	1.73218412	2.452174055	2.33823063	1.0219120449	1.67303724
##	[21,]	1.57192421	2.042624710	3.52817685	3.0302324341	5.21259161

##	[22,]	2.33417848	2.876816573	3.58670385	4.6067951189	1.27839550
##	[23,]	-3.48048041	0.140514018	2.18559146	4.5434614995	1.42405865
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##	[25,]	2.04085992	2.334900766	1.09694866	-1.8980893833	4.16713380
##	[26,]	-1.17016287	1.974805734	2.14530226	0.8248521316	1.24523230
##	[27,]	1.37397015	1.800762110	5.40045783	0.4884641465	1.33660233
##	[28,]	3.36482012	4.392240059	3.05211666	2.2316990671	1.36308191
##	[29,]	3.60682657	0.746304985	2.53051031	1.5873820358	4.34650695
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##	[31,]	2.40657708	2.758686008	0.71294836	0.8665317500	4.40116851
##	[32,]	2.82842075	2.964557106	1.21886373	0.9785438100	4.13117866
##	[33,]	1.65254882	-0.249697971	3.04586392	0.0838441538	2.74175929
##	[34,]	1.54871752	1.033937626	3.67135224	1.2581779630	1.81663339
##	[35,]	0.97239441	-1.090188948	0.88919257	-0.2407477795	4.07798215
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##	[37,]	4.09563085	3.280361762	-2.59684374	2.7763347494	2.42536653
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##	[41,]	1.82749286	1.528035097	-2.13767438	-0.5878519176	2.72598866
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##	[43,]	0.48874458	1.233543288	2.05699709	5.3248254981	2.33034988
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##	[46,]	1.81993432	1.453346726	2.73730290	1.3433078099	1.05625163
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##	[51,]	1.58542920	2.467897350	-1.62200148	1.3002825721	4.66855267
##	[52,]	3.25035400	0.289319359	1.86473792	0.1442846905	1.22307305
##	[53,]	2.57710241	-0.051452662	0.62292944	3.2368206367	3.30558827
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##	[55,]	1.23543721	-0.005645641	2.62265852	2.7820971967	1.29320386
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##	[61,]	1.32774078	-0.297442200	1.97128631	2.8708968081	0.17034569
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##	[29,]	2.37069294	3.78006149	-1.69404114	1.03881902	2.37544211	-1.034247402
##	[30,]	1.57634173	0.78523019	2.42970550	0.63414180	4.90141114	1.866978115
##	[31,]	1.75574907	1.51551518	0.76966785	1.34055057	1.75313934	-0.731859494
##	[32,]	6.65120138	1.73218947	3.57469478	3.93675485	-1.83636327	1.798272989
##	[33,]	-0.02579555	6.12077706	-1.58643229	-0.08464590	1.97816471	3.776100399
##	[34,]	2.10180002	4.03827995	4.00671490	0.91323197	0.65590235	1.244654685
##	[35,]	1.85651798	1.82376010	1.62219823	4.85874072	2.44267587	3.406311986
##	[36,]	0.70183852	0.39405392	1.69731991	5.93648412	2.89336948	3.732371778
##	[37,]	-0.29375151	2.53419758	0.63823262	2.91636088	2.62102127	-1.554973786
##	[38,]	1.08782626	0.10064503	-0.57466210	0.08447665	-1.06467174	2.590445569
##	[39,]	-1.41085482	1.71120918	1.57905841	2.22643241	1.20372302	1.220681681
##	[40,]	0.73162124	-0.72898874	4.68236322	0.07427705	2.07837785	3.335929408
##	[41,]	1.47601341	-1.24741189	4.97091427	2.93855638	3.50191000	1.550303035
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##	[43,]	-0.03918414	1.70439998	0.99577849	2.15101127	6.23558425	2.816682592
##	[44,]	1.14170487	5.16978136	1.45358353	3.22558541	2.08756396	4.311972994
##	[45,]	-1.47049413	1.47582213	1.94143433	5.26762584	-0.95306572	0.432848957
##	[46,]	1.93338842	3.98873704	0.83533948	5.00674600	3.94355257	3.173795791
##	[47,]	-0.78397673	6.29070502	3.30885294	1.60516449	3.67196395	-0.330573545
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##	[49,]	0.37737238	0.30246605	2.98554845	2.29550457	-0.10381813	3.169258486
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##	[36,]	-0.12230846	0.428189347	3.925682063	3.6961058	-0.03985218
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##	[39,]	4.24535232	5.744182029	-0.775537964	1.2813409	-0.36061106
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##	[53,]	1.54838259	1.121940290	3.770702738	-1.0344609	-0.79537030
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##	[70,]	0.26808489	1.362570210	1.746266609	2.3231134	-1.81805446
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##	[72,]	4.59646033	-0.943610572	1.098106646	3.9976044	1.92439574
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##	[76,]	0.92481198	4.219441846	5.629761584	4.9566194	1.01960501
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##	[79,]	4.16592861	4.386821621	0.231677939	2.0155571	4.25050839
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##	[82,]	1.73218830	4.606471905	4.105530494	5.2853690	1.70370160
##	[83,]	0.54073790	0.454037951	0.541944135	3.4284538	2.36033380
##	[84,]	2.89092519	-1.083529213	4.201643701	2.2893102	0.71949285
##	[85,]	2.24434364	1.116504240	1.023147559	2.1776472	4.07198859
##	[86,]	2.13214894	-0.335649738	0.610608019	3.1444897	-1.74892534
##	[87,]	1.04828324	1.496374496	0.328285153	-1.2730206	0.81213802
##	[88,]	1.03824873	-1.420089146	2.238495692	1.0190377	2.62276276
##	[89,]	3.13291621	1.510341250	-0.037720524	0.2874366	0.23033655

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## [92,] 1.48737905 1.427484095 2.920252020 4.4717294 2.04614754
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## [96,] -0.54811024 0.223653917 4.770047155 -0.1067920 0.75763026
## [97,] 0.67350734 4.586435777 -1.328472107 3.0759352 4.65436642
## [98,] -2.72926572 0.151845971 4.261046682 2.9587014 0.04909643
## [99,] 0.58695846 1.622258758 -1.884755131 1.3863292 2.46224982
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## [1,] 2.799207287 2.32878241 3.30019881 2.11493616 3.91091975 1.55580827
## [2,] 0.274632564 0.18980694 0.47870106 0.66320554 1.28569761 0.52770133
## [3,] 4.744395237 4.66149025 0.63602435 3.26636577 -0.07518201 4.00547408
## [4,] 0.766733154 -0.47591226 2.47267107 1.64113846 0.18172800 1.49211577
## [5,] 1.095142007 6.05146466 4.51997124 2.70864135 -2.50404961 2.19221774
## [6,] 1.043771092 3.50355431 6.58232643 3.05395310 -1.73436998 0.62920031
## [7,] 4.276446178 -0.79737709 -0.22447801 -0.77777331 2.33500464 0.85101608
## [8,] -1.071592225 1.37743986 4.12538873 4.43120503 2.38875981 5.34985802
## [9,] 4.871847805 2.76518254 -0.15171046 2.33785411 -1.35879243 2.09352703
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## [28,] -0.143952967 -0.88752271 2.26576929 1.85188867 4.14388465 -1.07095133
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## [40,] -0.827835268 4.37345313 5.84203126 -2.97065636 4.47322238 0.92237045
## [41,] 0.730762859 5.19531655 -1.16039492 -0.48430156 3.71520731 -2.32848628
## [42,] 0.811625050 1.17370683 1.96332063 -0.53887270 0.18622148 0.87695128

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##	[43,]	6.278432195	4.38631915	2.23287653	3.43936138	-0.95627003	1.35381975
##	[44,]	1.254851191	1.22231338	3.96064171	4.90202076	1.60345570	-0.13762925
##	[45,]	1.825623210	0.94678553	-1.14325623	3.20866804	-0.88101235	2.02710228
##	[46,]	-0.065411153	-0.67423599	1.82793195	-0.86465448	4.15942252	2.56161312
##	[47,]	-0.562873390	3.15477121	1.74748521	-4.25246567	2.17570197	2.73861264
##	[48,]	0.101017832	2.61754005	0.83785367	2.63376627	5.76525402	-1.07293980
##	[49,]	2.987811302	-3.51591476	1.58655896	1.92623658	-0.55498307	3.13728700
##	[50,]	4.173272173	3.11532271	3.35569917	4.98658066	4.84258514	-1.29642129
##	[51,]	3.065669619	1.56397242	0.04430076	3.53448388	3.23541034	4.56144517
##	[52,]	5.332372368	4.55939679	0.16359575	1.24909932	1.34906195	3.50704639
##	[53,]	2.170204506	-1.19135794	2.69314725	0.80889798	-2.04906662	1.35879467
##	[54,]	2.009157821	3.10425155	1.74586481	1.47190535	1.51583057	-1.09365537
##	[55,]	-0.186109568	1.07194706	-0.75893107	1.62013656	0.96004213	2.21695037
##	[56,]	2.719228923	1.94119223	5.54659679	3.42024066	2.06394923	1.92534991
##	[57,]	3.382467609	2.44832812	4.00943444	1.67250527	0.06062557	0.44091349
##	[58,]	4.570094840	-0.12763447	2.11773648	1.70034336	1.18410658	2.49176282
##	[59,]	-0.077089881	2.62164237	2.49921273	0.75284229	4.27079622	1.77977797
##	[60,]	3.500172896	0.44201466	2.96284584	4.32229703	0.21521098	3.98273631
##	[61,]	-0.329419959	3.28278809	6.78449099	6.60274323	2.56210441	2.38130511
##	[62,]	1.198744759	3.55695219	2.46082170	4.77110220	0.76338716	2.94667459
##	[63,]	2.736948378	2.06864740	2.74963629	-1.32341016	3.84478498	2.74219757
##	[64,]	2.596247842	0.10117220	-1.36763980	4.68252385	4.30866941	-0.18443749
##	[65,]	1.005443866	2.76532914	5.59541565	-2.59611199	2.16987220	0.98362879
##	[66,]	-1.051334467	4.45488643	4.60151966	3.71821366	0.80630313	1.32950122
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##	[68,]	3.291435683	4.49775621	5.22088707	5.55544749	3.78150765	4.05811555
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##	[70,]	0.043034953	3.49594173	2.70882307	1.35405561	2.15648166	4.52868475
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##	[73,]	-0.673085940	3.86456229	1.61080525	3.70919360	-2.01764321	0.43905346
##	[74,]	-0.006538494	1.98246284	4.84083439	-0.74650514	4.03864224	5.12908826
##	[75,]	0.200721659	2.42297365	0.30713881	2.21710152	4.67682142	-0.50461669
##	[76,]	3.430272171	2.39289261	2.55230285	1.95118770	-1.18944616	2.72188511
##	[77,]	3.974405001	1.72604342	1.16077008	1.85009218	1.32733718	-0.56432596
##	[78,]	1.248253442	0.93155631	-0.03550173	2.89685594	4.85406728	2.86738912
##	[79,]	3.804548621	1.22818637	1.35406774	1.45963442	0.87914274	3.63542198
##	[80,]	1.018207893	4.27537750	0.98394997	4.65161334	2.77103594	1.01569935
##	[81,]	1.799596728	0.96536628	1.46316450	3.21317109	4.84254164	-0.10499664
##	[82,]	1.342495028	0.91987228	2.15289356	2.10363269	1.12742296	-2.42467625
##	[83,]	1.105454858	0.73367760	2.04136076	3.92237404	3.38085850	2.07879751
##	[84,]	1.172792061	4.61961617	1.38735391	-3.99498554	2.28600670	3.63936231
##	[85,]	2.647757427	0.68709011	2.64568365	0.33116052	-0.07087677	1.96753330
##	[86,]	2.386923137	1.49516163	2.82907930	1.86553839	-0.86726290	3.55129272
##	[87,]	1.025567634	5.28700862	2.09382463	4.23318357	-1.14116572	1.11332355
##	[88,]	1.226557863	0.78948163	1.94950602	4.11126779	6.30567694	0.55287082
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##	[93,]	3.503591733	4.32846832	0.71339115	1.51286102	0.05351122	-0.62659295
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##	[96,]	1.460706040	0.56550842	3.21048379	4.57340737	1.85335028	0.64750500

##	[97,]	2.206749125	3.51004441	4.75071510	3.98253039	-1.39478203	0.36404297
##	[98,]	0.781820475	0.65896458	2.21648395	-0.17572153	4.07089902	-1.48566916
##	[99,]	5.159902881	1.81007913	2.41875414	1.51391289	2.78449217	1.74652772
##	[100,]	3.951212287	0.12115298	5.34215978	0.54305149	2.12639614	-0.29188003
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##	[3,]	-0.07074922	2.82001371	4.23430367	5.329065529	0.76580933	0.82001495
##	[4,]	-0.51507700	-0.25547596	1.85701294	5.112537051	0.28255182	3.18584473
##	[5,]	-2.00315440	3.01828708	2.72638265	4.545040921	2.67326092	2.00446010
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##	[7,]	0.08280435	-0.82765155	5.46971204	0.499515170	5.55342169	1.59924063
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##	[9,]	1.37881121	3.62241181	0.94017523	-0.360088611	0.93468691	0.37941355
##	[10,]	0.97384114	0.58561804	3.35460173	1.653377425	2.29352327	5.10243741
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##	[12,]	3.39734491	2.73769708	3.62965848	1.594259531	0.64406406	2.47502355
##	[13,]	2.80260368	6.85934961	6.09611935	1.758360383	0.88939168	4.14552508
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##	[16,]	-0.05649711	-0.95232284	1.95331118	-0.395459366	1.30720372	0.28386032
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##	[18,]	0.63030744	2.44248806	2.39776754	2.475327982	0.44877928	2.53495004
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##	[21,]	-0.16920542	2.97874780	6.84401903	4.410261884	4.88399643	4.23437601
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##	[23,]	3.79233223	1.50957487	3.20502872	3.237962808	1.14718957	-0.88984830
##	[24,]	2.50542975	1.62306661	0.77156697	0.004358465	4.09133741	0.36778193
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##	[27,]	2.59793541	1.05997240	0.46394846	2.416822380	1.30475078	1.46118863
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##	[29,]	1.69867159	2.07783182	-2.21109843	3.204632728	0.92951103	-0.27640195
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##	[34,]	0.44259231	-1.90619232	4.92565184	2.871376631	1.07450348	-2.49485535
##	[35,]	2.29096121	0.98708966	-0.08371807	2.316078113	1.82337016	4.97196772
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##      [2,] 0.90413197 5.245464618 -0.55835396 1.033887402 1.29266857

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##	[3,]	8.56772643	0.844871437	5.31129991	2.566219777	2.63719808
##	[4,]	2.17125617	0.086614781	3.69919919	2.190704067	1.51409134
##	[5,]	2.16445093	4.275827202	-0.90121788	-0.143774589	5.07421374
##	[6,]	1.79332962	0.008425768	2.11969945	4.301652580	3.25927693
##	[7,]	0.69202921	2.077707007	4.90425357	0.745699122	0.74849740
##	[8,]	2.68164760	0.079062597	-1.07245745	-0.133987040	3.35793062
##	[9,]	2.57504771	1.933080826	1.99792278	0.770466350	0.21970538
##	[10,]	1.73476193	2.601428575	3.83731107	4.336198272	1.30284262
##	[11,]	1.73950481	0.476535659	3.43867740	2.473339867	1.53359129
##	[12,]	1.50495022	5.402722045	1.63211092	4.733429184	0.67886719
##	[13,]	2.96704169	-0.456030528	-1.14245013	1.760803750	2.15835210
##	[14,]	5.45410595	0.995587227	4.07197886	0.181366008	2.17455206
##	[15,]	3.30703102	1.606989880	0.85306906	-0.098051458	0.57432385
##	[16,]	2.71347453	0.837579681	0.30402010	-0.423443619	3.20132535
##	[17,]	3.39600572	2.049985695	2.99465544	1.437544682	1.19233449
##	[18,]	2.37608346	1.725965060	3.50745606	0.133096348	1.18964069
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##	[20,]	4.69442403	4.517097520	1.12847152	-2.936746347	1.39481187
##	[21,]	-0.26752596	0.443889715	1.88840642	2.427862627	2.55527876
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##	[23,]	-1.93036165	-2.311406764	3.78596132	0.541839471	2.29189714
##	[24,]	0.27602173	1.975799933	3.07317240	3.916111352	-1.37197684
##	[25,]	0.68537424	-0.000271213	2.59041276	2.910557213	4.70097408
##	[26,]	1.00535540	2.628017412	4.04585694	0.390359014	3.80548992
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##	[16,]	1.92039227	0.854996498	3.13702633	2.0820694	0.5542874248
##	[17,]	-0.69034563	2.443431868	3.04277422	2.5372801	1.6830695009
##	[18,]	1.33949694	3.582055244	6.07302971	3.1611846	-0.4148430628
##	[19,]	2.99407690	3.553216863	3.73633073	0.6878954	1.4730860512
##	[20,]	2.02570116	1.707808761	0.93253962	1.3066346	2.2902770908
##	[21,]	3.42916834	4.874602091	4.38036938	0.2349456	2.4761092914
##	[22,]	3.53787471	4.772618205	-1.24901869	7.0904776	-0.1065614157
##	[23,]	3.20576704	2.457892233	2.08233686	2.3487881	-0.3312931188
##	[24,]	2.45451865	2.260324313	3.20229735	3.4402408	1.5549773050
##	[25,]	2.72284922	0.482088871	4.26754936	2.2635323	6.1597938939
##	[26,]	4.77094174	3.396583685	2.90717266	1.9526346	-0.1518374462
##	[27,]	0.69275492	-1.823963676	2.54344678	3.6424243	4.2622766180
##	[28,]	4.12524691	0.902212777	0.12310148	3.5428901	-0.2647662781
##	[29,]	1.52315547	4.293201617	0.03907154	2.9886572	1.8529745516
##	[30,]	-1.83639205	1.783455296	3.82748536	2.7425507	0.1711941377
##	[31,]	3.48251399	0.608459783	0.77378813	1.6135431	0.5510935588
##	[32,]	3.02663298	2.941570598	0.32180740	3.2191872	-0.8473663729
##	[33,]	2.07131169	-0.005045873	3.85244548	1.1532829	1.2872994975
##	[34,]	1.94262779	0.661754048	1.81061829	1.2601257	4.4295390471
##	[35,]	2.40836800	-0.992291829	3.31646900	3.4001016	2.2575927991
##	[36,]	2.01026073	2.108280435	1.87015818	0.7806509	-0.0378666197
##	[37,]	0.58549568	0.879497402	2.94020724	-2.1386314	-1.3072683268
##	[38,]	1.30669422	2.842773488	1.10367079	1.5797298	1.8754227722
##	[39,]	1.67648024	2.382258494	0.86986165	1.5416992	-1.6228028312
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##	[48,]	2.00399619	-0.405648439	-0.29990291	-2.2503723	0.1983823141
##	[49,]	2.53088358	0.629417085	0.88757207	6.9412503	-0.8102400447
##	[50,]	-2.50069071	0.796746281	1.88305873	0.8320219	-0.5741488389
##	[51,]	0.93468512	0.462330005	2.85028583	5.3429811	1.4070557823
##	[52,]	0.69305577	1.732428244	3.11028819	1.9871447	5.5445477368
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##	[54,]	1.28798334	4.783538483	0.50310303	1.6483472	-0.1990963539
##	[55,]	-0.35141635	1.100526978	2.76665602	0.3926978	3.7648128053
##	[56,]	1.10345172	3.136439863	1.81991723	3.0895883	1.8591307773
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##	[63,]	4.54700107	2.774045933	0.25044921	1.6952068	2.5993196212

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## [72,] 4.378771516 -0.91387788 2.496511982 0.80998865 2.1639599 4.07532065
## [73,] 1.703649560 1.98210884 2.585052770 0.44702187 0.2221437 -2.69644064
## [74,] -1.001097642 2.70206368 3.477173529 -0.72960600 -2.1157167 -0.14603035
## [75,] 3.559274170 2.20789919 1.320091512 0.39625609 2.3765593 2.61833430
## [76,] 3.129776955 -0.62774331 -0.879057421 3.61382506 0.6008109 -0.02725640
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## [1,] 2.95646849 5.57254146 2.7243237 2.116455071 2.99303815 5.67969629
## [2,] 3.82956365 0.07209539 1.6335440 -0.219997373 -0.26808612 4.69190778
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## [4,] 1.88523682 3.83225037 -0.5568381 0.991456434 1.54821849 2.72847897
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## [6,] 3.39337149 2.03609658 3.2417406 1.178821564 1.32073926 4.19397441
## [7,] 0.26381664 2.31727044 3.2478680 5.774537400 -0.35589417 4.91086943
## [8,] 3.00984638 4.70568399 1.1111641 0.224797834 0.13579180 0.60486788
## [9,] 4.93514853 2.16975164 1.4093746 3.062260635 1.50421677 4.06617096
## [10,] 3.02661996 3.06086792 0.2939649 -1.619528798 1.30630715 1.46194308
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## [13,] 3.15636999 1.21580563 5.4819293 -0.223030356 0.69893933 3.39784458
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## [17,] 5.58454156 0.94224701 0.6148984 -1.862486356 -0.90734137 2.93514391
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##	[31,]	0.44822132	0.22749732	4.1769002	2.177083825	0.33411478	2.55160163
##	[32,]	0.66396863	1.04114636	1.1189910	-0.450043718	1.45214623	-1.14951253
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##	[37,]	1.73721800	3.45794038	2.8079144	5.592454860	4.38497596	1.11753926
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##	[40,]	1.32378167	-1.92483228	1.8121866	4.559053060	3.89535953	-0.59937289
##	[41,]	4.40968274	1.70178370	3.7660132	1.627946098	-0.34286642	3.37466294
##	[42,]	2.31737182	0.69673912	3.7217082	3.825545345	2.47726768	3.38206340
##	[43,]	-0.66084205	-0.39767266	-0.4435378	1.811740835	-1.45442510	0.85979357
##	[44,]	0.08115988	0.55886684	2.0194078	0.985553669	0.16169343	1.92973617
##	[45,]	1.56593707	0.58562773	1.8523278	3.905045389	5.14892484	1.23385861
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##	[47,]	-0.16277794	-2.70743864	5.6445098	-0.842041419	2.02342463	3.03156339
##	[48,]	-0.06069213	4.10848862	2.6461512	0.835728216	2.56753240	5.00113989
##	[49,]	3.90015356	3.06393726	-0.9938099	-0.207287392	3.71979756	1.31326215
##	[50,]	3.64869249	2.23171217	1.7217712	3.272043261	1.56012049	2.32444778
##	[51,]	2.81498361	0.37680932	0.1403121	3.379472534	3.31232060	-1.12172185
##	[52,]	-0.67973380	0.70284158	0.3416127	2.192196678	3.45388004	2.48218219
##	[53,]	2.71187299	2.70101132	3.1690718	-0.835083332	0.03968749	2.36574976
##	[54,]	3.75663238	2.04556970	3.5576548	3.325086770	1.77150895	2.20457359
##	[55,]	4.18316391	1.48503481	-1.2871783	1.112345756	2.84617035	0.93329609
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##	[57,]	-1.03104626	5.34243392	1.8790559	0.608848203	1.36398184	2.11640342
##	[58,]	3.62315314	2.66712123	1.5146043	-1.333996215	2.43723975	2.76994836
##	[59,]	2.50314252	1.21734873	0.8020839	2.587692301	0.34530532	-3.39264284
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##	[64,]	1.97235899	2.97719858	1.4521845	0.910503090	1.10175261	2.54047516
##	[65,]	6.29072263	1.62920315	-0.2176961	-1.575035987	1.68316050	0.75646335
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##	[70,]	0.66744504	3.47651993	1.1909737	4.604591945	3.53265632	0.38939964
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##	[76,]	0.96254718	7.04357001	2.6037735	0.926209989	1.25071325	4.70253759
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##	[79,]	1.87672303	1.29009989	0.4295586	1.793242033	0.70307048	2.04854625
##	[80,]	1.41664993	2.70651520	3.7794190	5.698992462	0.72383747	-0.51725512
##	[81,]	-2.14261776	2.99152747	2.2711574	0.835588410	3.99191539	2.47598872
##	[82,]	0.61217481	3.20382331	-1.0403841	2.197080509	-2.51149843	0.37307579
##	[83,]	2.55525708	-0.57673399	1.4143273	4.147556185	3.35426042	1.50098211
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##	[85,]	0.64077930	2.59350062	0.8243507	1.831546160	1.83183699	6.74484859
##	[86,]	3.63009905	-0.71770402	3.5203111	3.173536077	3.24483140	0.93052267
##	[87,]	2.00834554	2.88124565	4.4497134	0.153510131	3.21852261	4.28483398
##	[88,]	3.84864585	3.19768182	-2.1018009	3.175230454	5.87544249	0.89586943
##	[89,]	3.03376455	1.73377578	1.9956134	2.032999094	-0.06237035	1.95661903
##	[90,]	3.73331407	5.95280768	2.2923569	-0.850297826	3.10880774	1.92260964
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##	[92,]	6.05459161	-1.97363046	1.1716034	2.071284922	1.37597917	1.34914642
##	[93,]	1.66943541	-0.70157265	1.0628114	3.374172610	0.19816670	4.19672865
##	[94,]	3.86283894	1.31689019	0.5332584	0.317377853	0.31317003	0.95869667
##	[95,]	3.50857108	5.38340245	4.9538149	0.911279759	5.47732806	2.04038518
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##	[97,]	1.59920891	1.31308469	-0.5116121	0.212158327	0.58151197	3.33906306
##	[98,]	1.63271251	4.85537934	1.5272945	0.925645772	1.50286045	0.61067779
##	[99,]	1.32833996	-1.50511344	3.8939578	5.109879693	2.17344611	-2.65495202
##	[100,]	1.03315008	0.09051169	5.0742307	1.380051051	0.85547247	1.46357767
##		[,141]	[,142]	[,143]	[,144]	[,145]	[,146]
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##	[2,]	0.26179092	5.268195903	1.89518009	3.77817175	3.92078751	3.66636959
##	[3,]	0.31960524	3.115112077	1.75789858	4.17271947	-3.55416137	3.49258224
##	[4,]	1.11315094	2.580612024	-1.59242178	2.10532191	0.61420000	-0.12623865
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##	[6,]	2.41691724	2.374640161	2.86799832	3.35461555	0.51861652	-0.12171061
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##	[8,]	1.30822267	2.097377565	1.57889283	2.82254624	-0.59127569	-0.19075166
##	[9,]	3.53167919	1.337947945	-1.97143746	-0.09248574	-1.37492908	4.24185195
##	[10,]	1.44918470	-0.103280371	2.52153101	1.36665619	4.90172039	5.37159081
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##	[13,]	1.80804469	4.681777851	0.46175130	-1.19620721	2.26361297	0.72931003
##	[14,]	1.99346076	4.870094725	3.15711210	-0.03709045	2.63692758	3.01823729
##	[15,]	-2.36926424	2.850079093	2.61796073	2.04679151	-1.23871291	-0.69304869
##	[16,]	1.55313095	-0.613657722	-1.98782335	2.94522971	-0.14851470	1.26121636
##	[17,]	3.18804523	2.189700653	1.38321019	-0.59290831	4.84333093	1.24794323
##	[18,]	1.86369607	0.375743336	0.93290774	0.21988935	3.55284603	0.55458336
##	[19,]	1.50336412	1.731303309	3.28484126	2.12843978	1.18009899	0.32995666
##	[20,]	1.93360851	1.743807584	4.62099116	1.51166059	3.27499848	3.62911016
##	[21,]	3.26896373	2.163107959	1.48614121	2.67708668	1.56291256	3.92824891
##	[22,]	0.14794542	-0.138379196	3.72340496	3.81731680	4.01874140	2.70142720
##	[23,]	3.46401291	2.208582464	1.16217584	-1.54933571	0.27165308	2.53698219
##	[24,]	3.01251006	1.522296815	1.72327998	-0.14998744	1.40358401	0.98603426
##	[25,]	1.10764959	3.253252376	4.62662379	2.02506658	1.48042707	2.03465038
##	[26,]	0.01880194	-0.689676949	1.70292251	1.16488998	4.68442504	4.44661192
##	[27,]	1.85451538	1.598780811	1.67745475	4.27621282	3.36868566	2.60689886
##	[28,]	1.26811393	-0.136540291	6.71350369	0.23491273	1.37907953	4.35539661
##	[29,]	2.71408964	2.487734742	4.77016748	1.22684780	2.62235031	-0.48275461
##	[30,]	2.54722651	-1.479152581	5.51629856	-0.16729783	2.49547171	3.79000071
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##	[92,]	2.40454920	-0.857590622	2.19763169	2.46963194	4.28406147	4.59502925
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##	[94,]	0.15689208	-0.694923943	1.27177753	-1.93071411	0.41670129	0.27698624
##	[95,]	1.57049156	-1.610872472	2.10456010	-1.13918525	0.67944862	3.52924570
##	[96,]	4.01801276	1.276685999	2.42734008	1.59887273	4.56551448	0.48440452
##	[97,]	-0.17398431	7.165527355	1.32335032	0.43924265	5.49830500	1.47392391
##	[98,]	2.73514653	-2.454491919	2.86939884	-1.58596573	0.75735120	3.90514450
##	[99,]	2.14148924	0.616028989	3.75936238	0.45703226	2.95320843	3.39544339
##	[100,]	0.60845129	4.576827664	0.97648469	2.67550772	4.33618549	2.85584584
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##	[2,]	2.479203357	2.63767605	-1.30175653	0.35408665	2.38599052	3.9275028
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##	[4,]	1.220104482	2.16309484	0.09639900	1.76415743	1.65165331	1.2127422
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##	[8,]	3.427589301	2.47603680	1.50917314	0.80270985	3.46291615	0.6216550
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##	[89,]	3.635840436	-2.66129383	3.35131636	1.73959934	0.78920986	1.7460189
##	[90,]	2.010069683	0.88015211	1.48853261	0.15339369	-0.34310740	-0.5012909
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##	[5,]	3.602457217	4.97288549	2.386298605	4.78240538	1.10978727
##	[6,]	3.339071996	2.16372261	0.308966969	2.37690327	1.20771187
##	[7,]	0.976891232	4.88322097	-1.236908369	2.16293527	2.00369372
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##	[10,]	4.122876884	2.19698792	1.209069844	-1.16826137	0.39818846
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##	[16,]	1.947160240	-0.27031964	-1.130314623	4.60581380	1.08768438
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##	[15,]	-0.53884332	1.9501559	2.50277060	-0.5739383	4.76810372	2.87241852
##	[16,]	3.60663721	-1.2851926	1.14412652	1.0312420	-0.10796694	1.85451112
##	[17,]	1.39984302	0.7587863	0.80828681	0.9778287	5.44552752	1.86513802
##	[18,]	-0.07728418	3.0152001	3.02217562	1.5867564	0.18421294	3.06372206
##	[19,]	1.74003896	1.2906426	0.09224659	-0.2855657	5.24440572	3.24794084
##	[20,]	0.91637450	3.3279237	1.65837139	4.6818769	-0.22067621	3.00031697
##	[21,]	-1.90690539	0.2083794	0.02629164	0.1161600	2.80954505	-0.19586365
##	[22,]	-1.76404585	1.6001887	2.50928986	1.2429880	-0.09872695	3.48047633
##	[23,]	1.52420567	2.2810543	3.21604481	1.5278336	2.01820069	2.62082341
##	[24,]	5.07776256	1.1265811	2.43523516	-1.1408460	-1.08385172	3.77145912
##	[25,]	2.53357492	1.3461858	0.38677012	4.1011815	0.02516193	1.92398175
##	[26,]	-0.39713698	1.2562040	2.22032784	1.3551302	3.12882306	-1.39259931
##	[27,]	2.89391454	1.8943137	1.06898398	-1.6836763	2.23762487	-2.76663589
##	[28,]	0.33923720	3.4074836	0.20148469	1.1653688	2.30205084	1.02941869
##	[29,]	2.41734404	1.7805236	3.88865550	-0.9976387	4.91543785	2.76916521
##	[30,]	2.95653798	2.0358335	4.02858376	1.0909121	1.55456690	0.21343444
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##	[32,]	1.79726094	-0.1096030	1.44682772	0.9801637	2.99366442	2.92826983
##	[33,]	3.79400392	3.9249685	1.42314320	3.5383453	0.75637271	2.85247310
##	[34,]	0.53495220	1.2502617	4.56012143	7.2940774	3.78801314	0.57690935
##	[35,]	3.50855985	-3.0303540	2.00794414	2.8598971	0.19432015	-0.80912371
##	[36,]	0.96573742	0.3058525	-0.57039423	2.5809373	3.82508174	2.12729083
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##	[39,]	4.02253916	-0.2551533	3.48304993	0.8070239	1.11138972	2.89230245
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##	[26,]	4.48698509	-0.639613146	4.76566531	-0.32281343	1.39475093	-0.10153816
##	[27,]	2.34163219	0.140477870	2.38344354	0.41535749	-0.23276479	3.41384906
##	[28,]	2.60127924	2.144179173	0.75304186	0.33451243	1.92542791	4.94729451
##	[29,]	5.74436840	2.228169736	0.37412050	3.10409088	1.50167576	3.89666004
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##	[73,]	0.95341916	0.872037093	0.93146728	2.51647911	-1.33372853	2.56471076
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##	[92,]	1.04725574	1.816252861	3.03316378	-1.32913594	-1.06015931	0.14769018
##	[93,]	3.11461543	-0.599736751	1.52718366	0.49243335	2.50925729	1.01991812
##	[94,]	2.75791553	3.140774878	2.47966575	0.67661163	-0.02253260	-0.34298122
##	[95,]	4.08917676	4.667019936	0.77341282	0.07833030	6.47583020	0.60141759
##	[96,]	0.74767702	0.954078032	1.70726563	-0.57206841	3.00741010	3.59701403
##	[97,]	2.00183958	2.100212364	2.43237847	2.69304585	3.61135724	2.24468428
##	[98,]	1.10716178	5.740287593	2.63102323	3.18911061	1.10099754	2.39487858
##	[99,]	3.03286641	-0.740317223	1.25805630	2.95335017	1.43415666	-0.08489389
##	[100,]	3.99527030	0.221866386	6.05903851	-1.72208680	0.28383926	3.45329187
##		[,176]	[,177]	[,178]	[,179]	[,180]	[,181]
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##	[2,]	4.156135294	-1.59332231	0.23740384	1.26009608	0.44307587	2.00216253
##	[3,]	1.416709152	3.34605809	5.48845005	0.34472120	-0.13820972	-0.71248379
##	[4,]	1.906043878	1.87417742	0.45630463	3.93637404	2.06448014	3.09201984
##	[5,]	0.734242184	1.60940671	4.17546363	0.33032930	1.82214366	1.06914937
##	[6,]	1.345750974	-0.54798439	4.56676666	3.65914736	3.17973728	2.84617611
##	[7,]	0.892766422	-0.68648226	1.19839627	3.50200586	4.36731207	-1.03529051
##	[8,]	4.464178719	3.94203216	2.31830230	3.94907956	-1.60738929	4.78992883
##	[9,]	1.236917803	-0.08998084	1.34961038	1.87063012	4.29107940	3.26324844
##	[10,]	-0.216244977	3.69408903	0.38014655	0.47610720	1.84195464	-0.99661102
##	[11,]	2.217344888	3.52917536	0.74808535	3.41098880	1.44188578	2.23602567
##	[12,]	1.636721566	-1.57755090	-0.59616074	3.06650550	2.65079401	4.49083339
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##	[14,]	-1.424009783	2.59082493	2.15966033	1.32829159	0.43241305	1.16382939
##	[15,]	-0.725923108	-0.80566593	3.45958822	-0.74590346	-0.21908661	2.29201380
##	[16,]	5.145208406	-0.41096430	2.25600052	-0.48734803	0.08056679	2.45331889
##	[17,]	1.643795426	1.22288416	3.55744460	5.43774132	0.15581895	1.17653334
##	[18,]	-2.110717281	-1.25192887	3.82745811	1.36419648	3.35351791	0.93826351
##	[19,]	2.996285582	2.21721041	0.04528031	0.35103412	1.93325722	2.41108032
##	[20,]	3.903503526	4.69022490	1.71494225	0.75549776	-1.39210475	-3.83922494
##	[21,]	0.230487429	4.51209945	-0.65993600	1.08322487	2.17619254	3.02486390
##	[22,]	3.083816247	3.54735788	2.51130879	-0.33235612	1.19520315	2.03706750
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##	[80,]	3.655371559	1.63833198	3.08263735	1.90859734	-1.78864149	1.70728100
##	[81,]	2.881218380	1.83105147	0.41695010	3.12737773	2.89803834	2.19991940
##	[82,]	-0.506862620	2.53375673	-1.47247108	0.91178102	-0.92416367	3.42461937
##	[83,]	2.908828703	0.51932201	-0.07783792	2.94362530	-0.57575351	1.60743636
##	[84,]	2.853467627	2.09913751	3.60533702	1.81436470	1.73051793	0.03748787
##	[85,]	4.289427654	1.86857041	2.07228177	-0.08890960	0.26438350	0.30829281
##	[86,]	-0.006793085	1.38588485	1.05140865	0.21958215	1.19820821	1.19277423
##	[87,]	0.242513751	-1.93829689	3.13144569	1.05766576	3.66340593	-0.84805496
##	[88,]	1.197365000	4.39315247	0.07961051	1.84228530	2.42578266	-1.40894798
##	[89,]	-0.123341154	0.99055943	2.30180281	1.60637429	3.54330256	1.28714920
##	[90,]	3.489681721	0.23565328	1.19337314	4.70698097	1.94493853	3.21641373
##	[91,]	2.013362297	1.94827672	0.88751062	0.70594944	0.90762948	2.74681376
##	[92,]	3.006833269	2.74923237	1.55544638	2.44649572	4.48168025	2.27671999
##	[93,]	2.811266169	1.02233268	2.71322397	2.10225003	5.42275277	2.15392119
##	[94,]	-0.347124518	1.23399954	2.99597738	3.61941144	2.86672465	3.56799545
##	[95,]	4.304656991	3.28458795	1.59573060	-0.07898798	2.19998290	4.37444396
##	[96,]	0.574257111	0.16036886	0.75712512	1.49980427	4.09583146	-0.13460641
##	[97,]	3.148372739	3.05312540	2.23122506	2.39121865	5.44287007	-2.19935640
##	[98,]	5.251671838	1.47442374	-0.34576919	0.21546944	2.13148870	4.22041253
##	[99,]	3.779605717	1.25170120	3.53296006	3.30879680	-1.34000756	2.66460510
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##	[3,]	0.21751065	4.0375186	5.08412329	3.07925027	5.672661587	2.20662400
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##	[5,]	0.73094614	0.3317846	-0.48463002	0.87009375	0.495052030	5.47283569
##	[6,]	3.25880866	0.4124914	0.87242597	2.49472745	3.154041273	1.04004954
##	[7,]	2.18445385	0.3190525	3.25536665	-1.75258510	3.501205816	2.30161596
##	[8,]	5.19474174	-1.9290710	1.46945646	1.88091649	5.075516163	0.35251511
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##	[10,]	-1.28623711	3.2690318	3.50351572	2.23265449	3.979402248	2.22180325
##	[11,]	1.81377696	1.0520277	-2.26303656	-1.53690922	3.305554421	3.47424290
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##	[17,]	4.07374667	2.0184299	3.10014811	0.63829379	1.492039064	4.88396520
##	[18,]	1.46643180	4.3779974	4.47552766	1.50960755	3.978619667	0.81661551
##	[19,]	0.36598394	0.4456948	2.38508881	3.79089313	3.314560451	1.34081158
##	[20,]	2.57017480	3.0516531	0.23981836	1.42335777	5.230374803	-2.28081862
##	[21,]	4.85945254	0.3719664	3.38857010	3.56551321	-2.609576983	4.56518685
##	[22,]	1.10534161	2.2020004	2.44336068	3.70113006	0.510528280	4.13720368
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##	[29,]	3.34203016	5.0583563	-0.34106286	2.53198759	1.013408261	2.57040832
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##	[31,]	0.58605629	1.9113210	3.81053144	4.20957385	1.785051866	0.74712614
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##	[37,]	4.29066518	-2.3183848	3.30372479	-3.06461899	-1.695059365	0.53474223
##	[38,]	-0.04700539	2.5892063	1.15508926	0.09652064	1.717757002	1.33462594
##	[39,]	2.48141447	0.3979306	-0.84565529	0.04410105	2.945276334	-0.65162784
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##	[42,]	2.77336983	3.7702922	0.63493151	1.82148101	2.349042438	2.45434624
##	[43,]	-1.78346376	1.6187266	1.53245442	-0.37025375	0.876291970	0.91842385
##	[44,]	2.62311436	3.5267830	2.31710837	0.96560527	2.488271548	1.09911631
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##	[46,]	2.89610090	3.0226420	2.79989237	2.33351579	0.868851312	4.87199391
##	[47,]	3.14831800	4.4433189	6.06323824	1.88228046	3.804824633	1.80400687
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##	[53,]	1.83325956	1.3961152	1.97152039	-3.83617710	1.932037532	1.39814602
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##	[55,]	1.83760524	2.2619619	4.42306872	1.39848989	-0.542374873	2.87132123
##	[56,]	6.79079439	0.4359359	3.32962992	3.34667300	0.009316723	1.34791446
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##	[58,]	2.07660402	1.8775790	-1.00197650	0.10866653	0.842028843	0.76045571
##	[59,]	-0.29860381	0.2854419	4.12183003	4.16822201	0.619708997	0.61691662
##	[60,]	2.76233213	3.8806622	1.03609239	6.76270177	7.144440282	-0.20088779
##	[61,]	5.85469985	1.4526752	2.92496361	0.68596492	-1.138264002	0.85101837
##	[62,]	3.14884635	0.9686189	4.12276909	3.35202163	-0.891031633	3.14126534
##	[63,]	2.00865090	1.3758145	0.64720258	-0.64904326	-1.051798712	1.16015574
##	[64,]	0.36121214	1.8831470	3.13778706	2.45835891	1.026334596	1.37587101
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##	[66,]	1.38562929	3.4820807	6.78316303	2.91083016	4.108244534	0.71698207
##	[67,]	2.40091176	3.4605052	2.20193829	1.85949144	-0.903249399	-1.89700502
##	[68,]	-2.16454454	4.0135781	2.09826514	-0.33031090	0.450181397	1.57559314
##	[69,]	2.31591893	1.2754305	0.44018111	0.92187214	-1.281711682	2.68276001
##	[70,]	2.24758708	0.8782594	-3.77362050	2.75289360	3.585128206	1.51203950
##	[71,]	-0.34958562	2.6420302	-0.73809867	0.20402958	-0.060917369	3.29150768
##	[72,]	-0.44594439	-1.2016724	4.11544645	4.51064360	1.884224334	-0.10319362
##	[73,]	-2.35642378	1.6543542	5.02466653	1.01620752	2.900596111	3.82407671
##	[74,]	0.85266309	3.5086300	3.65293046	1.54869034	1.452426698	4.86537309
##	[75,]	1.11986017	-3.5428844	2.51065195	5.59079486	2.138890161	2.14525215
##	[76,]	-0.92146357	4.4679758	0.96310876	2.18066524	-0.170402764	1.10388640
##	[77,]	1.00069915	2.4661336	1.99539537	1.74788536	2.080971146	0.56281827
##	[78,]	1.73553037	2.4045849	-0.67139223	2.19727616	2.785381616	1.78651726
##	[79,]	1.06099761	1.9468984	1.70931783	3.77454723	-0.973084105	-0.42353222
##	[80,]	0.74680793	2.0104570	-1.51264095	2.13857568	3.352868078	1.84082949
##	[81,]	-0.57208539	2.3181416	-1.97957930	0.36295333	3.663340080	4.44480847
##	[82,]	-1.95930810	1.1544500	-1.32329452	-0.18423004	3.195327478	2.27030166
##	[83,]	3.17722069	5.3360674	1.31789388	4.02177641	-0.022134786	1.16222765
##	[84,]	-2.51895376	3.1947464	-0.12109938	-0.27244053	2.494155830	1.10209554
##	[85,]	4.07434117	4.9208715	3.30003396	1.75726271	0.740256699	2.83016655
##	[86,]	-2.33514743	0.8186610	4.65919411	2.00200116	0.707553962	1.03747577

##	[87,]	3.40631603	1.9479281	4.56002383	3.27266699	0.308694183	0.12403695
##	[88,]	0.22344615	-1.2650361	-1.16376756	0.13631347	0.121430550	1.03477538
##	[89,]	0.28316251	6.6767602	0.31653112	-0.58984120	2.173717634	5.05174113
##	[90,]	-0.23418656	2.0532719	1.49714538	1.83277761	2.234422156	1.33583104
##	[91,]	1.63714535	3.0377555	0.45935066	2.40871787	0.834535344	2.19266738
##	[92,]	1.60058430	0.5838846	2.28966291	-0.77725790	3.087734127	4.50170555
##	[93,]	2.25253055	2.4914778	0.68409590	5.39191999	2.002027799	0.83566737
##	[94,]	3.07423573	-0.6964274	4.19970539	1.36479343	3.722692691	3.77244989
##	[95,]	0.85699677	5.0254770	2.32483221	2.04251341	2.689828780	-1.47917654
##	[96,]	-1.86805997	0.2211055	2.39479082	2.98603434	0.830379651	-0.05717599
##	[97,]	-1.39370123	2.3569884	1.24511816	2.90348997	2.428693771	2.86855469
##	[98,]	0.80688644	1.7465976	1.97910347	4.43431024	0.251593023	2.17021488
##	[99,]	0.27925554	2.2298279	3.18429593	-0.81943434	1.417811550	-1.76576354
##	[100,]	-0.07339183	4.8348407	4.46728308	1.75049802	1.075136196	0.29788447
##		[,188]	[,189]	[,190]	[,191]	[,192]	[,193]
##	[1,]	2.55181822	1.323341759	-1.22365286	0.52563009	3.06386614	-0.01612346
##	[2,]	2.63944710	1.792897709	1.30674953	1.20044202	3.74790692	0.70134410
##	[3,]	1.41601636	3.060081139	3.64246460	-3.34215618	0.46683413	6.02446928
##	[4,]	-0.86181146	1.826960870	2.42557370	2.62272593	-1.18648492	3.80449217
##	[5,]	-1.26661915	2.497131524	1.20112075	-0.32859878	2.69755034	-1.37834022
##	[6,]	1.01394726	5.978988696	-1.02994340	3.06706210	5.05969939	0.35185439
##	[7,]	-1.95971173	2.120783155	-0.35910650	1.57212352	4.61336560	1.57909337
##	[8,]	-0.10677615	-3.590625300	2.45951333	0.26485917	-0.03974503	3.35712301
##	[9,]	5.32376228	2.100285924	-0.65667056	-0.66978604	4.34953748	1.45426754
##	[10,]	4.83404888	4.200220506	3.54709768	-0.87643883	2.44010594	0.08129354
##	[11,]	1.88113447	4.114364860	3.21945323	-1.31738962	2.73918048	2.39149909
##	[12,]	3.63794056	1.320532071	2.58371670	1.81765411	1.54993336	4.81999852
##	[13,]	2.64425716	2.342937475	5.25224069	1.77489472	-0.58196723	2.60793200
##	[14,]	-2.30455568	0.220279315	0.05895451	-0.81703631	-0.31509730	2.78068324
##	[15,]	1.90882320	2.704787050	6.62241730	5.56673802	3.54592502	-1.35245135
##	[16,]	0.62220858	2.964558915	0.48840133	-0.02183516	1.74827499	0.89844789
##	[17,]	-0.42227275	3.475006754	0.34841964	-0.05464746	5.15980422	4.83237648
##	[18,]	3.54228864	-4.235897927	1.86535372	4.66163562	2.32913258	-0.43813325
##	[19,]	-0.19018307	-0.732607248	1.03961970	0.49594773	1.85833653	2.80411972
##	[20,]	2.86092193	0.600122952	0.18690566	3.24766739	-0.13905444	2.97477054
##	[21,]	-3.01375737	1.120228631	-0.37700027	0.59255059	0.89144310	-0.96249971
##	[22,]	3.87505392	3.576854651	-0.26984828	-0.57855141	3.03501106	4.49453625
##	[23,]	1.63852570	0.924991815	1.06408634	-0.18174489	4.26368875	3.24260708
##	[24,]	0.04427510	2.211029352	3.45188755	2.24344315	2.40087688	-0.21656522
##	[25,]	0.81556798	4.362206122	-0.24686132	1.07880725	5.42058710	-1.85089390
##	[26,]	1.09237661	3.239530708	2.66232917	1.27334920	2.11189439	0.79664409
##	[27,]	2.93067094	0.358878051	-0.42434805	1.81238631	3.26471447	3.30714719
##	[28,]	1.47991493	0.234793798	2.35842335	3.60343936	2.01841985	3.83501185
##	[29,]	1.87783014	1.612429875	-1.29527437	1.63441901	-0.12269254	3.85866280
##	[30,]	3.29078398	-0.439814657	1.56214345	3.05774631	1.98756956	1.02382605
##	[31,]	1.67109041	0.925167287	5.27669956	-2.01985446	0.38420603	-0.87625239
##	[32,]	1.67916729	1.408705130	0.20924895	5.36594476	-0.83150367	-0.22267909
##	[33,]	3.00592533	1.523392315	2.48801733	1.59181470	5.42940809	5.23694716
##	[34,]	1.67414518	2.143321607	2.44376984	1.52196328	1.18654144	1.11737129
##	[35,]	0.13432857	1.375524579	0.45325507	-0.32671871	1.63796252	1.47345018
##	[36,]	1.27787615	3.084653181	4.68783426	0.23793385	6.66909140	-0.95749542
##	[37,]	0.73629130	-0.841306526	0.80952487	1.99509166	0.64285694	2.24823958
##	[38,]	1.58376386	1.361475556	2.18690989	3.20037091	-0.03919284	-0.69952799
##	[39,]	6.04842167	0.003163415	-2.73274116	0.37115234	6.31956528	5.66520320

##	[40,]	1.65162037	1.008195830	1.90918527	2.50894457	5.33412902	2.38418155
##	[41,]	0.64679929	0.866043102	-0.07541053	4.59487191	1.75321973	-1.78822746
##	[42,]	2.05172609	1.509589469	-0.29945773	1.74652109	3.77336816	2.12898038
##	[43,]	2.08783436	0.147626990	1.71746290	3.03194076	4.93365028	0.95356694
##	[44,]	1.43854093	1.688289014	1.43091677	6.70505332	-0.34999022	5.74909011
##	[45,]	3.31161504	3.721171961	2.08155300	1.42631260	4.88382463	0.30161901
##	[46,]	1.66680531	0.888267224	-0.20166585	0.45725958	-1.33211153	-0.92544241
##	[47,]	1.94840133	0.185228279	0.34946661	2.27396895	0.69775150	3.07760813
##	[48,]	2.52989234	1.419035826	1.52438592	5.86821258	0.28486405	-1.19067818
##	[49,]	-0.65380772	3.792986665	-1.38686443	0.86713047	1.20193754	1.88241286
##	[50,]	0.46076162	2.100013790	1.40731816	4.80022840	0.11769368	-0.37834225
##	[51,]	3.78359244	4.050610299	0.66273307	-0.56996715	1.73633807	1.84331730
##	[52,]	3.31921108	3.569026308	3.25649644	0.82919001	-2.06341929	2.40034571
##	[53,]	0.71585979	-0.864126425	2.66639046	2.36026991	2.48660136	0.22982833
##	[54,]	1.35315987	0.002980263	-1.30117555	1.90932116	4.72739001	1.68509803
##	[55,]	-0.57327164	4.260928288	1.97810101	-0.41201248	3.28095750	3.28594248
##	[56,]	2.49393658	-1.594829734	1.12851467	3.01327669	-1.09066569	4.09922186
##	[57,]	-0.29559166	1.734029305	1.99238187	3.25723797	0.86029083	3.23899122
##	[58,]	-1.47450709	6.532923875	1.83211446	-1.65364713	-0.27821400	2.22580046
##	[59,]	3.06927632	2.791762478	-2.61213213	2.96193753	1.10545479	0.03181590
##	[60,]	0.50327425	1.704409444	4.66967523	2.24893445	3.38869798	1.07576102
##	[61,]	1.29793084	-1.921242787	-1.16075203	2.65410071	-0.33245621	1.61901947
##	[62,]	-1.61937528	1.452062027	5.68664255	2.09231319	-0.21784024	0.47135948
##	[63,]	5.05178760	1.798376892	-0.17853726	-0.37000269	-1.32606636	0.28996051
##	[64,]	1.65376839	1.217232355	0.05032404	1.52433068	3.82806774	3.60040662
##	[65,]	-2.21851216	2.393102749	1.53032595	3.63225027	0.93572474	3.02044282
##	[66,]	1.31622282	0.656819820	2.74928928	-1.38153774	3.95752643	3.37636245
##	[67,]	3.33990188	2.325928284	1.61324678	-0.08833464	-1.93354895	2.56927889
##	[68,]	1.13627263	2.418420376	1.59860492	1.66912357	-0.23756119	1.20244641
##	[69,]	4.26451269	-0.272367553	6.40911208	0.00331333	3.17102262	2.49529441
##	[70,]	3.62551273	-0.713897287	0.58081685	5.30986178	2.41432823	1.87261083
##	[71,]	0.71258840	-0.326575685	3.28143182	0.19889723	0.35744950	-0.20124114
##	[72,]	0.43706961	1.929392833	0.60231842	2.50974058	1.72683035	1.67290314
##	[73,]	0.40213541	0.723476981	4.30470947	3.90286254	2.67754269	3.21438617
##	[74,]	0.23173018	4.359216550	2.04994553	3.55706855	0.98942982	3.56265715
##	[75,]	3.86046068	2.463919524	2.39417134	0.73830563	1.12360878	-0.81235545
##	[76,]	0.94212776	3.277641952	4.33701540	1.25729862	2.74454500	2.42250916
##	[77,]	4.69021132	-0.386893692	-0.03460149	-0.20518635	3.64850336	0.25556609
##	[78,]	2.47950446	1.869631381	1.98188544	2.82805865	0.52587259	0.06044933
##	[79,]	3.13440188	3.311896011	1.07319087	1.99896859	2.81363984	2.09231479
##	[80,]	1.28108853	2.047749651	-1.02594801	3.28306520	1.93838684	1.01073243
##	[81,]	1.01609915	2.139861158	4.69558539	1.07263473	1.90783891	2.33756563
##	[82,]	1.28228097	0.789090976	-3.97505419	3.39451922	1.24217368	1.27013413
##	[83,]	-0.01677131	2.394299713	2.09285169	3.87855323	3.40070716	-2.97202595
##	[84,]	0.19701589	-0.135685993	2.13939831	-0.82338322	0.49023352	2.57611628
##	[85,]	1.76346169	0.312121574	0.40749706	1.32590729	2.63903857	0.93164285
##	[86,]	-0.24531095	1.867212071	3.16611333	1.68649375	2.74341191	-1.95408633
##	[87,]	0.52561551	0.311505916	2.33865842	0.21824779	4.66488135	-0.44544433
##	[88,]	-1.57110947	-0.060750335	0.22987526	1.46884268	4.34624705	3.39429563
##	[89,]	1.59206890	3.074978341	0.11781392	1.97542550	-0.10675499	2.64253743
##	[90,]	4.31372164	1.566548928	1.94309271	-1.34420532	7.41374416	4.36752881
##	[91,]	1.68560955	2.952977054	3.93576871	-1.34943799	1.18794008	1.91524314
##	[92,]	0.99643638	4.706057659	3.11575380	4.91034701	1.80139349	0.95226580
##	[93,]	-0.07789537	3.756285895	-1.30077922	1.95432696	3.83777831	-0.45519950

##	[94,]	1.26167249	1.584313024	2.37821093	2.28404415	2.12637240	-0.24373429
##	[95,]	3.52856451	0.334378989	0.95740976	1.06561133	2.45406076	3.85396422
##	[96,]	0.63295455	6.637839725	1.67020915	-0.37977408	3.48703594	2.39298717
##	[97,]	-1.20552215	3.424577943	0.55966359	1.42038394	3.55057800	-0.28633160
##	[98,]	-2.83587338	3.251778015	-0.78435721	-2.05606713	-0.35687451	-1.13964707
##	[99,]	3.37785421	-0.577407775	4.84230386	4.87646879	0.90630321	1.10235423
##	[100,]	3.01835654	1.224337518	2.54614467	2.25948452	-0.18582118	-1.84942980
##		[,194]	[,195]	[,196]	[,197]	[,198]	[,199]
##	[1,]	2.92961445	2.7324064	1.57283100	3.05482557	-0.89095016	3.93981084
##	[2,]	0.96813307	1.8608851	1.82013547	0.05051209	1.79041803	1.72249026
##	[3,]	3.25219858	-1.2651001	1.01092852	1.49355986	3.32808619	-0.21214126
##	[4,]	0.30092980	3.3144039	1.89134572	2.29820847	0.45156368	0.37331397
##	[5,]	0.78508672	-1.8003751	1.39927296	-0.16383297	3.07468013	5.47476794
##	[6,]	3.60550433	3.0419365	2.19490790	-0.64214573	2.65011787	0.21388565
##	[7,]	-0.64750727	-1.3648166	3.79552968	0.58686637	2.09153783	0.61511415
##	[8,]	2.54314935	4.1775271	2.65551478	0.43145489	-0.18404078	-0.60763396
##	[9,]	1.86512157	-0.3982044	0.07238628	0.22029891	2.85253699	1.14799476
##	[10,]	3.24745423	4.3180910	2.84170458	-0.50004740	1.34478261	1.56624849
##	[11,]	-0.25638686	0.9115212	-0.12031851	6.58767680	2.62717331	0.54294024
##	[12,]	-0.47338995	-0.5200887	3.25478076	-0.58762245	-1.48683322	3.78156840
##	[13,]	1.51287683	3.2843519	2.27384732	3.67496457	-0.71380143	0.87988972
##	[14,]	-0.32208515	1.4667974	1.66219983	1.57491393	-2.54455178	-1.08216411
##	[15,]	1.85473511	5.4619174	1.10678439	0.40778095	1.05597608	3.00170728
##	[16,]	2.84787406	0.1844368	1.71326601	2.10248898	1.95243635	-1.02392382
##	[17,]	4.73022892	3.5514911	0.02920744	1.33291091	-2.10017718	1.45954259
##	[18,]	2.11605466	4.1621527	-0.51709227	1.07012023	0.12781237	2.35162180
##	[19,]	2.68197766	3.3994092	4.43028005	1.24964597	1.75950840	5.16455599
##	[20,]	-0.21414189	3.2719489	3.25206426	0.87768955	2.32003740	5.45282676
##	[21,]	3.28239045	-2.5429042	1.49420352	3.01283549	3.03220167	3.82851621
##	[22,]	-0.24627680	0.7462612	1.11314780	3.29797537	2.08409270	3.57575341
##	[23,]	-0.04594230	0.5470688	4.42997576	2.05493877	2.58563558	1.99746036
##	[24,]	0.65715239	-2.1994584	-0.32454692	3.00171847	0.60704265	2.00112925
##	[25,]	1.40258774	1.8752379	2.01924531	2.35504540	-0.72633644	1.59725944
##	[26,]	-0.35680620	0.3708345	0.57118998	-1.92613758	1.88007482	-1.76887936
##	[27,]	3.95291001	1.9115595	4.02424452	3.02866030	4.65288081	2.58740628
##	[28,]	3.03683303	2.4945331	0.90256798	4.33858625	2.22662560	-1.45315283
##	[29,]	-0.12080136	0.7493660	5.38670586	2.91736932	1.82290665	4.25124452
##	[30,]	3.55983989	5.4963705	-1.09672856	-0.89496096	2.69590504	2.30798736
##	[31,]	-0.10375536	0.1182056	-1.19701844	3.72901991	0.07335525	1.58769008
##	[32,]	-0.60686843	-0.1905386	-0.30421864	0.55898947	2.28569589	2.43155166
##	[33,]	2.20002826	3.6989060	3.16233126	3.35057096	3.32002620	2.17289921
##	[34,]	3.14424013	-1.8685197	-2.00101730	1.99238328	3.19791436	-3.39397577
##	[35,]	1.60680764	-1.7724173	4.88707772	1.52834664	0.56424537	1.03548132
##	[36,]	1.51620212	-0.7903746	5.66352293	2.47125124	5.13807304	4.59274647
##	[37,]	-0.57472526	0.4549790	1.15809880	1.71329710	3.98674443	0.04614422
##	[38,]	6.25567763	4.3021508	-1.04842065	0.06944971	2.13010591	2.26156067
##	[39,]	2.02492875	-0.9276406	1.92677555	1.14284948	-0.18644482	2.01301354
##	[40,]	0.65367711	-2.0485760	2.08841975	-0.67276382	-1.37297903	3.05463397
##	[41,]	3.83441969	2.7645137	3.45257068	-1.25242280	4.12039988	2.67048373
##	[42,]	2.78407158	1.2242266	-1.70565841	4.03153107	2.22671023	1.28577254
##	[43,]	3.33006498	3.7836670	2.57019144	1.18454263	3.09187631	3.06031270
##	[44,]	1.19538937	4.8579477	1.77326319	0.45697390	2.21672660	2.15046016
##	[45,]	3.73495023	3.4810485	4.68084736	1.19443414	2.90648594	0.74606849
##	[46,]	3.29971176	3.8893986	2.92857318	0.62587280	-0.40169436	2.56549071

##	[47,]	-0.48805598	2.8992540	0.29902322	0.01716632	2.56810552	-0.42393305
##	[48,]	-0.39303729	4.1438635	5.70159522	-0.83438496	2.42895618	5.46364076
##	[49,]	3.21170044	3.4192722	1.43907981	0.24207716	3.99689989	2.16551272
##	[50,]	-1.31901330	1.2657693	0.30403307	1.77022609	4.85015337	0.68831504
##	[51,]	0.58391688	1.6346397	1.94213951	2.24237002	3.67136032	1.15962280
##	[52,]	5.01309103	0.6365427	3.30333730	0.36932284	2.94714192	2.94794118
##	[53,]	3.60411891	0.2427121	4.74497189	0.55846339	-1.72968999	0.23052101
##	[54,]	3.79013480	3.8874046	-1.74522828	2.47598713	0.15989461	1.74216916
##	[55,]	4.21192337	1.6342452	2.25832923	3.53723065	3.25330940	3.83881350
##	[56,]	3.50861141	3.3212973	2.57137531	1.19022437	2.48018374	0.97357029
##	[57,]	2.19495109	-3.3399603	0.89373993	1.72761410	3.04128471	1.91448270
##	[58,]	1.42973651	2.9902104	0.96103042	1.55372278	3.93235805	-1.18434432
##	[59,]	2.05656887	-1.6034395	2.03115782	2.25281056	4.96434438	0.87649440
##	[60,]	2.38267744	2.1964244	0.11875302	0.93303514	0.67042191	3.66815252
##	[61,]	-0.57775888	2.9433267	0.89577451	3.93504562	2.81576835	0.19911537
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##	[65,]	0.51858708	1.8949033	0.54812647	3.06451678	-0.01549560	3.32118675
##	[66,]	2.11309691	2.7779922	4.05263657	2.91121887	-2.22750667	4.14331418
##	[67,]	3.66816077	2.9155458	0.97555695	-2.34797827	3.33385942	1.01991364
##	[68,]	1.66007810	1.1837753	2.41346382	1.12566557	-0.07630968	1.07213024
##	[69,]	-1.25145841	0.6156839	2.20456488	1.46087829	-0.11868949	0.84047608
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##	[71,]	3.43568474	0.2041392	1.69395449	3.95002563	0.84964188	1.83250388
##	[72,]	0.60859978	-0.7790104	2.12907015	-0.58448943	0.40511823	0.91771741
##	[73,]	1.46767201	3.8081958	3.46177939	0.89679921	0.85520779	0.28786950
##	[74,]	0.09466964	2.3274370	0.52041605	0.70539779	-0.49038267	3.37919506
##	[75,]	-0.91097439	1.9673365	2.31276043	-0.18519585	3.17588396	4.43789040
##	[76,]	-0.22333533	1.5741370	2.31662119	0.33511747	1.35179373	0.32947995
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##	[79,]	5.33270727	-1.9336099	-0.44729781	-1.77160017	0.08479556	3.46502230
##	[80,]	4.05972990	3.9396266	3.61476689	4.87797194	3.55679827	7.75595412
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##	[83,]	1.94151286	1.8286183	-0.32023177	-2.07635725	0.68044312	1.86183344
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##	[85,]	3.89787749	3.8951301	0.31149044	0.92155051	-0.79285162	2.75165836
##	[86,]	0.38901089	0.2956888	1.55940741	2.34518779	0.46980174	0.11876220
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##	[88,]	0.77473954	0.3886294	2.16257709	0.54049037	0.03211204	3.90713787
##	[89,]	0.06205339	-0.7790340	2.10959054	1.94890465	0.33332970	-1.54204522
##	[90,]	3.34148786	0.8888699	1.77074158	2.12012796	2.97062635	3.86628695
##	[91,]	3.79925293	1.9461326	0.38338202	4.45855648	1.51847623	3.86068737
##	[92,]	-0.21978103	1.6810615	4.48097465	0.47401335	1.74600861	2.64592123
##	[93,]	0.24825738	0.6800613	0.30826207	3.35862003	-1.08435832	0.80624134
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##	[95,]	3.05643820	-0.9169419	3.59266647	1.05048224	0.95771028	0.99729928
##	[96,]	0.63161701	1.5455155	0.98522524	4.44772862	2.19226380	2.06241690
##	[97,]	1.86437204	3.7788303	3.13828080	4.76197538	1.97980384	3.74795031
##	[98,]	5.20966281	-0.3778607	1.25239546	1.43616500	4.46830893	7.00895861
##	[99,]	4.79632148	0.6539435	2.42472457	2.76203975	1.83506892	5.18688645
##	[100,]	5.23050620	4.7536176	0.93282572	2.09632456	1.69628484	3.33743704

##		[,200]	[,201]	[,202]	[,203]	[,204]
##	[1,]	0.3832308445	3.069233149	2.25534688	3.57916211	2.49638855
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##	[3,]	2.1777101635	1.934217655	1.10082044	2.41923066	0.96324321
##	[4,]	-0.5602283815	1.231877328	2.46124514	2.81187985	1.85732455
##	[5,]	3.2732624506	4.225104950	2.26715209	2.35037631	5.51284248
##	[6,]	-0.8813916090	2.215987159	2.48760896	0.56530792	3.24670615
##	[7,]	1.2816037779	2.347218385	1.08454666	2.06100699	1.98830935
##	[8,]	0.6947396151	-1.560026214	3.18136438	3.75011927	2.94850271
##	[9,]	2.6943614131	-1.443544820	4.46854369	2.92479645	1.51526301
##	[10,]	-0.6001654873	-0.061864201	-1.39560696	3.42960090	-1.33966560
##	[11,]	1.2180383435	-0.200034246	3.64471600	3.79100327	1.82622948
##	[12,]	-1.2181652512	0.006163315	-0.18161914	-0.66038402	3.78334684
##	[13,]	4.4761840006	0.206714007	6.92853345	3.98303411	3.27509229
##	[14,]	2.4270963996	3.155979619	1.85079820	3.49946650	1.02278763
##	[15,]	0.9658867508	1.850117399	-1.83681295	0.53906734	-0.25263742
##	[16,]	2.0426253807	2.605223030	1.65244065	1.89845906	1.68642640
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##	[19,]	2.2362900418	-0.406583464	-2.17013432	2.34877318	0.90363069
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##	[23,]	-2.1719177271	1.808132981	0.80730032	1.10159305	0.92179210
##	[24,]	1.9708542766	2.237108058	3.01081448	6.36523850	2.04198634
##	[25,]	0.5029083663	1.397977221	3.71956023	2.45593797	2.85072492
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##	[27,]	1.6537295862	3.421603207	4.53775423	4.16607522	0.91967305
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##	[36,]	0.5070241078	2.943275625	1.21439180	2.78462316	3.14428141
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##	[45,]	3.1667967260	3.147717703	2.79852492	4.42523651	-1.81889141
##	[46,]	0.0756254311	0.512295321	1.70770589	-2.64285356	5.53136070
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##	[50,]	0.8265631796	0.699672392	3.69889674	1.28575829	1.36422029
##	[51,]	0.0009387188	4.866337661	2.49064326	0.13560768	-1.85842081
##	[52,]	4.5405755721	0.007022179	2.26256630	1.88752314	2.29529507
##	[53,]	1.3602029244	5.042640865	0.94611005	-1.18000610	0.35527344

##	[54,]	1.3383424498	5.064097179	0.88572464	0.36931071	0.16428679
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##	[57,]	1.2951816326	0.272703359	-0.20785378	0.34279668	1.31979828
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##	[60,]	3.9657281104	-1.553310779	0.61118575	3.98432103	1.09657863
##	[61,]	1.8026543505	1.626000970	3.00418450	1.14239190	-1.20882934
##	[62,]	0.8212679914	1.677092481	1.57472916	4.30125920	2.46965354
##	[63,]	0.8175582161	-0.124895613	2.36618216	2.80343352	2.70262923
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## [7,] -2.92962984 2.70584347 2.06948468 3.05786756 0.84490570 4.374626332
## [8,] 3.73272439 3.63685269 2.67336913 -0.72022325 -0.59622178 1.570999296
## [9,] 3.95006494 3.16418146 3.00380874 1.93091416 1.53713768 2.340732436
## [10,] 4.19071503 0.72627073 1.54141485 1.61533733 3.05384793 -0.033610572
## [11,] 2.70051411 0.57274986 0.53103430 4.96299711 3.85294189 2.856998255
## [12,] -1.37249179 1.39100390 0.38196181 0.73078738 5.44126455 2.510002921
## [13,] 2.91007167 -1.60899541 3.60139793 0.91161985 2.98237416 -1.747640524
## [14,] 2.78476148 1.99628498 1.91418673 2.10357023 1.63863041 0.399308637
## [15,] 0.93589846 -0.32565809 2.31738736 0.91321383 3.84280510 -0.727241169
## [16,] 0.57728852 3.41027953 -1.34332898 1.72490253 -0.13225327 1.389444386
## [17,] 3.05926070 1.70564020 1.39183117 4.38993839 1.56510242 0.420207294
## [18,] 0.48317295 2.66943915 0.63543171 5.48522191 4.13340973 1.654514662
## [19,] 2.87592312 3.39546679 -0.26025316 5.49278762 2.29004895 2.006185134
## [20,] 1.43513196 -1.31371578 4.86761878 1.73836983 4.14852194 0.829762902

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##	[21,]	3.99706483	0.59942639	2.22785175	2.36981794	1.95626066	1.995331718
##	[22,]	-0.75666809	2.70724980	2.22491786	-1.36796956	1.63095683	1.840875710
##	[23,]	0.31967063	2.68769204	2.20664050	2.66892129	3.02071828	2.293797759
##	[24,]	-0.20682431	2.88576151	4.45101322	3.98131761	1.18790990	2.943622587
##	[25,]	1.88116213	1.00780341	2.38239891	1.41373425	-0.53452325	1.205234655
##	[26,]	3.02029910	0.29227522	-0.45935554	3.10783471	2.00171902	5.724153793
##	[27,]	5.72790152	-0.82076799	0.77593713	0.60677053	1.12160579	0.324555241
##	[28,]	1.47387287	3.06640066	2.85197331	6.39609000	1.40728264	6.084195486
##	[29,]	1.50537635	0.11745771	3.91074001	1.40502108	1.40598873	0.740054897
##	[30,]	1.23121330	-0.16836463	1.66863669	2.64021569	4.55176884	3.441788888
##	[31,]	-1.17262115	0.54344029	2.60270808	-2.25451681	4.98227801	-1.431302112
##	[32,]	-0.65440501	2.86051043	2.45215390	5.52412378	4.97984447	3.280432831
##	[33,]	2.40889239	1.60527968	2.96850468	0.84361939	0.48461031	3.291258915
##	[34,]	-0.09478395	0.28344326	-2.53553004	-0.99774179	0.01790187	0.413527263
##	[35,]	5.38916562	1.62361209	-2.18430593	1.27035524	2.22515090	3.388941702
##	[36,]	4.54127363	2.72167990	-1.27109995	4.02080081	2.85412063	4.829218283
##	[37,]	5.30617991	3.73748956	2.07141324	2.80999650	0.05265502	1.358384827
##	[38,]	4.74227062	-2.33097564	4.11086974	2.39481841	4.67124458	-0.725012619
##	[39,]	1.12243281	3.57226784	2.07962496	2.02955704	0.55689036	1.459520578
##	[40,]	3.56474536	1.56466533	0.86480490	2.93800492	0.27901279	6.597298974
##	[41,]	7.60143865	2.83411365	-1.56676412	-0.38518721	4.57548516	3.921510858
##	[42,]	-0.19409121	0.99259800	2.24228640	1.76475692	0.61539671	-0.644625128
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##	[44,]	2.19623871	0.79677283	0.26884591	-2.79739035	-0.15862817	1.809939173
##	[45,]	4.40656595	5.21856169	1.65673622	-1.55808244	-0.46613108	-1.307691252
##	[46,]	0.09854220	0.34626429	-0.72329772	1.85900602	3.11284901	-0.279075734
##	[47,]	3.84708739	0.75504783	-2.54436525	3.59517175	1.73832219	-0.709028942
##	[48,]	0.28787874	2.19745651	3.62558556	2.47520561	3.25791668	2.417951176
##	[49,]	1.08343609	3.88504158	0.41320815	1.72199026	-1.29104809	0.397115162
##	[50,]	0.91219504	-0.67683274	-0.36707726	2.79823397	1.20217755	-1.254506762
##	[51,]	1.05580269	3.95124517	3.43311235	-0.56610456	3.81071177	1.108436392
##	[52,]	3.26971957	4.51468279	-0.34989540	1.87341296	0.68818979	1.648717769
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##	[54,]	5.36229289	-0.02934093	4.04393081	3.09394599	1.83047885	-0.584744335
##	[55,]	1.42084120	2.35706715	4.06397768	3.93003564	0.39666797	1.831810866
##	[56,]	4.42131764	1.30065931	0.07106740	3.54967699	1.80135344	-0.124900824
##	[57,]	0.70910660	2.08050445	4.09477227	-0.85334364	0.99088736	1.455577342
##	[58,]	1.58800870	1.80326780	4.89984988	-0.40637153	1.51201978	0.569614511
##	[59,]	2.11336542	3.98035418	1.21411439	1.26106480	-0.41754933	0.393052684
##	[60,]	1.40501952	2.88217052	-0.84758034	3.43253753	2.79275247	0.280037660
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##	[62,]	4.28083686	4.07319982	4.16570005	1.18633587	1.50531056	1.902545550
##	[63,]	1.53166755	3.95134864	1.19384726	2.34460088	-0.40401003	-0.318102407
##	[64,]	4.75563434	1.44309759	0.56342830	2.06133992	2.87137593	0.067129083
##	[65,]	-0.65024623	1.17440557	0.11612387	-1.05611223	3.53006293	0.723520596
##	[66,]	0.90977515	4.42657843	6.36698479	2.02191203	2.78468349	0.466224914
##	[67,]	1.50182188	0.25469542	4.85451218	2.89383372	4.08004481	0.955861864
##	[68,]	-2.25522033	0.76322089	3.67670488	4.17848227	0.43167504	-1.925803903
##	[69,]	0.84930614	7.10410528	2.42228322	2.13288463	4.27152982	0.273793175
##	[70,]	0.56919262	-0.22610954	-1.21207364	3.78783350	4.29674547	2.377658336
##	[71,]	0.35461340	1.18686759	2.60904037	1.74798960	1.06544867	0.703819043
##	[72,]	3.27891632	4.17178230	0.50966990	3.04119843	4.06056072	-0.102199442
##	[73,]	0.22149565	-1.11317209	0.85638103	2.59846559	0.02364334	-1.141107580
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##	[75,]	3.92451369	0.06123794	0.56940231	1.65970802	0.02636978	0.765621212
##	[76,]	3.15151296	1.23555086	-0.60633608	2.63598936	3.63758355	1.420777071
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##	[78,]	2.57352028	3.73565203	1.41784518	1.24311465	1.70870181	1.582628119
##	[79,]	2.34807238	0.05286887	2.62988982	3.21568709	5.52519138	1.731251567
##	[80,]	1.58918196	3.29109216	2.59718023	0.88121368	-0.88287025	0.667412941
##	[81,]	0.54094835	4.97502262	3.37821776	4.05092642	1.79194613	4.679110966
##	[82,]	2.24002484	2.88420910	-0.32985403	2.64235009	3.41602803	-1.310708471
##	[83,]	4.02400795	2.07100006	1.14583649	4.15614531	1.18909885	0.550821563
##	[84,]	2.63604106	4.41857909	1.24352371	3.62838992	0.26068571	-1.172286006
##	[85,]	-0.05930809	0.60996481	1.80487282	3.39201262	1.41945160	2.769667815
##	[86,]	1.24141954	4.42535734	2.01431042	-0.26413072	-0.78712109	1.339866138
##	[87,]	0.43389416	5.69445402	1.72228621	5.16722744	0.50240431	3.890263379
##	[88,]	0.60060439	-1.15722833	0.75886711	0.23935610	1.40751033	-1.737579992
##	[89,]	2.08797596	0.50780660	-1.19205315	-0.79170528	4.96374244	1.765422722
##	[90,]	1.77693900	2.89562587	4.24831254	3.47413717	-0.32981240	3.673547207
##	[91,]	2.92294670	1.43027914	2.54989289	-0.32507873	-0.78679608	1.147888546
##	[92,]	0.78152568	4.43722616	0.60051347	3.42736223	1.02382847	2.493525810
##	[93,]	-2.75737955	-0.14525557	3.65325905	1.14017746	2.16375755	-0.184774485
##	[94,]	-1.40649783	1.21125076	4.31593793	-2.85902651	-1.49997313	1.334145440
##	[95,]	0.50621595	2.93327538	1.21645514	2.44039759	1.35670181	-0.009889215
##	[96,]	0.05803056	2.59464408	-2.17566420	1.54932819	3.35610006	3.363513099
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##	[98,]	1.47790588	0.18090607	3.60963934	4.08551707	0.20930127	1.356158467
##	[99,]	0.23169686	1.95555616	3.63939513	2.79686017	2.56454340	0.780657621
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##	[1,]	2.72409624	1.72854291	0.60130642	1.23365356	0.62983216	2.70594886
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##	[5,]	-0.91393089	-0.69374830	1.09507219	3.67903848	2.30666909	-1.76300538
##	[6,]	1.22044234	0.81574364	4.23093096	-0.45561250	-0.95505252	2.43329941
##	[7,]	3.18558408	1.74412749	0.07493138	1.39573242	3.75256871	3.25591343
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##	[10,]	1.73080047	-1.31698407	4.83086061	1.96110635	2.58220942	2.75410582
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##	[14,]	0.26814158	4.81313131	-0.67644888	1.47372553	0.59836817	0.75743678
##	[15,]	-1.19510337	-1.83000352	0.89775300	0.30282606	1.77420599	2.11165396
##	[16,]	4.05962202	3.42487964	2.53280424	5.67076780	-1.95249803	-1.02922761
##	[17,]	2.38735802	4.66576620	0.08585027	0.02797287	-2.14926558	-0.98365447
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##	[20,]	1.46295273	6.23889257	-0.32188315	-1.96978229	0.68525134	1.14358860
##	[21,]	0.73243857	-3.07543728	4.60494763	2.98395862	3.28439341	3.70743223
##	[22,]	3.51143933	-2.23243506	2.20481646	0.23259734	0.30268856	1.47195366
##	[23,]	2.69150426	4.52424431	4.15687395	2.79821738	1.34512531	0.39906871
##	[24,]	0.56481946	3.96443448	4.02318159	-2.00452188	1.27059432	-1.41846015
##	[25,]	4.24489480	1.68135307	1.54937160	0.47202846	2.10838618	-2.25695339
##	[26,]	2.81019624	2.20326870	1.40636347	1.17059093	2.25402849	1.17779077
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##	[28,]	1.51086341	1.61008012	-0.93982721	4.04348872	6.28355990	0.18878805
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##	[40,]	4.22636242	2.79664922	0.43163515	3.83880523	2.94849285	-2.32508219
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##	[43,]	4.37918458	0.77420245	-0.40190404	1.14402623	3.40676832	-0.17730051
##	[44,]	1.35879805	0.95227042	2.00588181	2.72958321	1.28657690	1.86928322
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##	[55,]	1.73061293	1.53030363	2.59320359	2.86229253	3.11081282	0.88703200
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##	[62,]	-1.35604754	5.13568994	-1.53510140	1.93814961	3.11984414	0.76570907
##	[63,]	4.86620086	4.16623803	0.09487134	3.19934254	3.07803850	-1.98731094
##	[64,]	2.04768201	4.01916475	4.65726269	1.24894668	3.29019148	1.25142409
##	[65,]	-0.37263898	-0.46748048	2.36222113	4.77542669	-1.00750772	-0.44049704
##	[66,]	2.81988680	2.19907455	6.45566648	0.04614244	2.88388141	0.63070160
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##	[71,]	0.92002036	2.46669440	2.34642925	0.31898838	1.09945914	2.92920402
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##	[75,]	3.42189879	1.77742135	1.08067896	0.26050134	0.18557174	0.65410289
##	[76,]	0.33867969	-0.06603904	-0.15604466	1.49411612	0.74641551	0.52881706
##	[77,]	0.97619893	-0.90741402	0.94046935	2.15374999	1.72297165	1.82838105
##	[78,]	-0.24214648	0.05664525	-1.67632334	3.65521630	2.60176334	1.03814498
##	[79,]	4.87105328	-0.04806796	2.61994578	1.49283295	3.31581192	-1.72711289
##	[80,]	4.43305096	1.96187360	0.93802817	2.12452910	2.17066148	0.16457832
##	[81,]	-0.23238761	4.29184370	3.65316587	2.24922568	-0.09489927	-1.12321313

##	[82,]	-0.33992795	2.14048830	1.45359698	1.44070981	2.75286970	3.37659366
##	[83,]	-0.39365137	0.23300162	0.47529465	5.87047233	1.07511374	2.87940605
##	[84,]	-1.99223642	1.14617057	4.95926554	2.36461901	0.77065932	0.78917827
##	[85,]	-2.57153699	3.60321966	3.14184328	2.10314367	4.95795992	3.34134065
##	[86,]	3.23808378	0.52880545	1.98777171	2.96924489	2.48151938	-0.07930228
##	[87,]	0.86320242	3.37736183	1.59462734	3.53445392	0.43809687	1.20199763
##	[88,]	4.30712075	4.07320542	-0.40944708	0.26560743	-0.35219612	0.83620472
##	[89,]	0.86520633	1.42415419	0.07981781	2.69797783	-1.41846774	3.42177378
##	[90,]	2.66314153	3.67878813	3.70141082	-0.86886240	4.67631687	3.34266525
##	[91,]	1.96507863	1.43584259	0.12287466	1.67197778	1.90827797	0.96495099
##	[92,]	3.21764131	1.04139983	2.03976066	4.29902808	2.42909547	2.12910716
##	[93,]	3.77548299	5.47931982	3.14913574	-1.71014204	7.66252956	0.73799567
##	[94,]	0.50322464	3.02483451	1.14967984	2.79392132	3.94156011	-0.26989888
##	[95,]	2.70773687	-2.30116994	-0.14127049	1.69849359	1.70457213	0.92266082
##	[96,]	-1.20130051	-1.43341308	0.54544112	1.52180261	1.79348818	1.76378594
##	[97,]	2.89292731	2.42457934	3.77348094	2.49382052	3.77107669	-0.47449909
##	[98,]	4.09476776	1.46402360	-0.82705194	1.74500505	1.93864839	-1.56009492
##	[99,]	4.27484871	5.36244879	0.06917054	4.47534302	1.64003529	-0.75274591
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##	[3,]	2.88615693	3.23189752	3.879717577	-2.47946853	2.13116178	0.76669837
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##	[5,]	1.59772804	-0.18161849	2.382892965	1.74437700	2.66186397	3.18452234
##	[6,]	-3.42467923	-0.71590236	5.157560856	0.72704815	-1.34974059	2.84678132
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##	[10,]	3.50282465	3.99759085	-3.231502083	0.40448996	8.06141014	1.08183002
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## [92,] -0.79788974 2.14171295 0.46718842 0.13104819 0.973900003 4.10346013
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## [94,] 0.73915763 1.18542712 2.89352528 2.97609442 1.187025047 1.94042788
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##	[96,]	0.09444537	3.82063479	2.42569212	2.08426884	2.465851436	5.45755869
##	[97,]	1.40792534	3.51080783	2.13161407	0.09098144	0.418304816	2.70183898
##	[98,]	3.01409395	-0.17909730	-0.39348686	4.76284351	3.985803709	2.08412561
##	[99,]	5.91279247	3.13855854	1.49014255	1.69073784	2.575240328	-1.07653928
##	[100,]	1.46827686	5.00866814	2.82214662	-0.79316707	1.125884775	1.02995555
##		[,241]	[,242]	[,243]	[,244]	[,245]	[,246]
##	[1,]	1.49468411	4.28853593	2.25005900	1.570687426	0.26355488	1.74710592
##	[2,]	3.00746149	1.85173976	-1.35366092	5.768516095	0.06741069	4.64321808
##	[3,]	-0.02535042	5.51099218	-1.42909311	-0.530140505	3.66004502	3.93826230
##	[4,]	1.69841071	0.61546965	0.89831234	2.896853755	1.88367081	2.17806483
##	[5,]	0.53381915	2.06209968	-0.59713680	2.606398261	1.03690050	-1.15608748
##	[6,]	-4.07286236	5.84545415	2.59205827	3.399111412	3.97061203	1.52232832
##	[7,]	1.53907203	1.86619120	3.42910901	0.204980494	5.40588233	0.74107963
##	[8,]	1.12884792	5.53843070	0.60708476	0.299378998	-3.27786725	5.38719134
##	[9,]	2.24448583	3.00409573	0.62444731	0.141834117	0.64106682	2.86068925
##	[10,]	6.10469371	1.89169091	3.85879739	3.203655361	1.66801344	5.40186850
##	[11,]	4.58233246	2.00776437	3.42313539	0.008704233	2.77817482	3.17648064
##	[12,]	1.90914802	-1.23570933	2.07294938	1.771327262	2.24361642	0.45869587
##	[13,]	2.24977146	2.46498214	0.86538528	3.131703893	2.87477966	2.42237406
##	[14,]	0.23957447	5.02680402	5.12879332	1.070315633	2.21021544	-0.31162859
##	[15,]	3.70250663	3.02570288	1.73963714	-0.267636556	1.89000685	2.16193594
##	[16,]	3.62467950	-0.49737641	1.99509587	-0.083428122	3.35076183	3.19290653
##	[17,]	-0.62862518	2.46478651	5.75361406	0.635289365	4.20526147	1.80097548
##	[18,]	0.90539352	2.68266237	0.83049823	0.941617335	0.67799817	4.53182410
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##	[20,]	6.20968069	2.06075359	2.99747174	-2.019928937	3.82256467	2.22130925
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##	[33,]	3.98822255	0.35159981	1.71813493	-0.945054295	6.27111583	4.34232768
##	[34,]	-1.54099534	2.74375658	2.65151749	0.470571038	0.04941406	0.38459679
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##	[4,]	1.37841609	3.24925348	0.23614848	-0.03227793	1.4449146	5.1514124
##	[5,]	0.37529409	1.82514154	0.73542492	1.33877854	2.8113342	2.1962513
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##	[9,]	0.47844638	2.27647442	1.82341733	2.50991361	1.3508328	0.2783169
##	[10,]	4.80376168	0.55304154	3.25633418	2.36616580	-0.9046974	0.7627188
##	[11,]	3.47397195	2.38421358	5.28761596	3.03942547	2.4557436	4.9860476
##	[12,]	3.56066012	2.10838014	2.56047917	1.71102597	-1.2062168	-0.9425398
##	[13,]	2.88930910	-0.43151201	-1.54430222	1.43988011	3.5969868	1.8253916
##	[14,]	1.90274536	5.83730125	-0.82266806	3.44199338	2.5096219	1.5291470
##	[15,]	4.21753870	2.46015547	3.51895018	2.42965199	3.6388754	3.1970709
##	[16,]	4.48272750	1.09165562	3.14822652	2.47940661	1.5924171	0.4723497
##	[17,]	4.09392753	0.62826652	2.02285794	5.66212356	5.7580271	2.9912090
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##	[19,]	2.82083102	1.12309420	-1.07820771	2.17008924	0.4953545	4.7186135
##	[20,]	2.98212173	-0.65310835	0.05420616	1.43621626	5.3283185	2.2473771
##	[21,]	2.82203918	2.43914199	2.57574291	-0.29833103	5.4155927	1.2805375
##	[22,]	2.06919964	0.47382232	1.93014666	3.84818354	2.3247587	4.4832529
##	[23,]	2.90646194	0.86596911	1.53694478	4.95278765	1.0786817	4.2415503
##	[24,]	5.49137365	0.82357051	2.85891176	-1.27417679	5.1640138	0.9436356
##	[25,]	2.51645309	3.64422844	1.20209554	0.72080683	2.5480478	5.8916044
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##	[27,]	-0.27887864	2.71096077	1.78102740	0.42860493	1.3893591	0.1022537
##	[28,]	-2.86263809	0.69413201	-1.95923981	4.21269418	2.0345396	2.2744136
##	[29,]	2.23183490	1.94420735	0.12032305	2.46527516	1.2528711	1.2593524
##	[30,]	2.71915824	0.51299796	-1.67073608	1.83312282	2.6298799	0.8543599
##	[31,]	1.35155246	4.22851955	3.28771771	1.70436768	1.7787597	0.1942256
##	[32,]	-0.30792752	0.02350178	1.50028678	0.35806970	3.6171182	3.8139994
##	[33,]	-0.49943560	0.26896972	5.08833266	0.35956670	-2.1182602	-1.4062256
##	[34,]	-0.27598615	3.07482148	-0.14796233	-1.15914643	0.7509880	2.9107726
##	[35,]	1.79189082	3.50804160	0.89304890	0.75638478	1.5094062	5.5284882
##	[36,]	-0.56012182	2.63929706	2.52857263	3.52258093	-0.8048784	1.7779807
##	[37,]	3.59620972	4.94393178	1.27373400	3.08347996	0.3647908	-2.4843579
##	[38,]	4.23133656	4.86618406	1.31233530	2.94872506	2.9522039	1.6457257
##	[39,]	0.56482575	3.16067752	5.55996061	4.98491666	5.1066026	2.2509715
##	[40,]	3.16970234	-1.38476010	0.91840172	2.91107878	1.4905686	2.5026727
##	[41,]	3.04786155	1.95206217	1.97171566	3.07082281	0.6275943	1.3773986
##	[42,]	1.21711468	2.34518434	2.54884655	2.43529843	1.5070856	4.4527242
##	[43,]	5.34478159	2.23500701	0.91621725	0.49870756	2.7975555	4.0210676
##	[44,]	3.27870051	3.33280965	4.30058712	2.46133304	3.6710412	-0.1076160
##	[45,]	2.29517472	-0.19162606	2.27398228	2.57305654	0.2455313	4.3097629
##	[46,]	4.63404492	2.40041584	-2.03671866	-1.77084459	5.5364185	1.4867017
##	[47,]	-0.79541240	-3.08970595	0.06764918	0.69734181	4.0537004	3.0640170
##	[48,]	3.32887304	-3.18333984	-0.74784371	-0.44794053	-0.4298920	0.4837608
##	[49,]	1.57982113	0.72225616	0.52580469	-1.80829776	3.6242938	1.1347126
##	[50,]	2.58333742	1.10382781	4.29366956	4.03746563	6.7416117	0.8157036
##	[51,]	-1.36948324	0.97259397	2.34896248	3.48919275	3.3649123	0.6011773
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##	[53,]	0.90413298	3.41443058	0.61436489	0.06514649	2.2881065	1.4901507
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##	[9,]	3.8337315	2.272120264	-1.80782973	2.96054682	3.67032517	3.91585534
##	[10,]	2.2145886	5.428081327	-0.80960003	3.64686553	-0.21104133	0.60325976
##	[11,]	3.8565626	1.724635119	1.80644365	0.58019415	1.29022799	-1.81587539
##	[12,]	3.6495165	1.375818361	-0.40707713	3.30685101	2.22461029	2.67595797
##	[13,]	-0.2096719	2.799229853	-2.14973103	1.78490383	2.45978669	-0.92730488
##	[14,]	4.7080169	1.451980805	1.78632901	0.82417924	1.55840537	2.47925010
##	[15,]	2.9396137	1.135149679	0.47805437	2.75418776	0.71189156	0.38940747
##	[16,]	0.2840334	1.382781270	-1.14195379	-0.82925877	3.40657927	1.00449812
##	[17,]	4.9837467	4.176648373	2.34423247	3.32401614	2.44455182	2.10077575
##	[18,]	3.7470417	3.508666982	0.35822894	1.28755119	3.03889642	-0.13709033
##	[19,]	-1.0214705	3.858303450	-0.82921803	4.69761495	0.03519463	1.43188957
##	[20,]	0.9641411	0.713996884	0.48324618	-0.76662030	2.66933734	2.49662899
##	[21,]	3.2596556	3.527710780	0.69686225	0.74114123	3.26223116	2.69787306
##	[22,]	2.0973234	1.995297282	0.97841696	1.34109065	2.29377326	4.08340893
##	[23,]	0.1485223	1.751637016	7.05663817	-2.89255622	1.59975707	2.30911865
##	[24,]	3.8772835	2.676646483	6.45279812	2.96905824	1.63078936	-0.24771064
##	[25,]	0.9640184	3.076517149	2.43476621	-2.80520125	1.85826889	3.96612478
##	[26,]	0.6697294	2.438234421	1.72759420	0.56739937	2.54454158	-0.99887287
##	[27,]	1.4542414	2.922820356	3.25868301	-0.13730928	2.76380548	0.70041186
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##	[35,]	4.1489361	-0.184826658	1.30233945	3.63799579	2.46717328	2.01538538
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##	[37,]	2.6226240	-0.278726293	2.50416599	3.46266625	1.36989343	-2.67996320
##	[38,]	3.4411640	0.823616183	-1.31667700	2.69184333	2.19903306	1.56421572
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##	[40,]	0.3746700	-1.782746611	1.17721804	5.47146247	4.39005336	0.09339637
##	[41,]	5.3961431	-1.793217797	3.45878496	3.04282208	0.76568606	0.45623657
##	[42,]	-2.1152720	1.029869384	2.64573247	0.98425962	1.13194286	0.98946589
##	[43,]	2.3378726	2.225594589	3.57626302	1.89672338	1.19981105	2.01952660
##	[44,]	4.4637356	4.164986489	3.56105814	1.51171251	-0.45647191	0.50864863
##	[45,]	4.0309424	3.916746621	0.09599492	1.43519437	0.48820898	3.11241277
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##	[47,]	1.5267921	3.019970303	2.77923973	1.97122309	0.68267803	1.39296710
##	[48,]	0.9608049	2.254733367	0.81084157	3.32149837	-0.32095304	0.72302966
##	[49,]	5.1344475	2.674890397	-0.17361711	1.50620227	-0.21754301	0.54786050
##	[50,]	-1.6092208	1.570313066	2.21417113	1.81782866	5.26786817	3.09661521
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##	[60,]	5.5154955	2.427183702	-0.30234113	3.20859689	-2.13176342	2.46572777
##	[61,]	2.9781750	0.660670322	-1.10213406	4.03040086	1.15476632	2.76533511
##	[62,]	1.4878688	2.324979347	-1.14286161	2.77008778	2.63022142	0.06880922

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##	[64,]	3.0575890	3.151814256	2.87525402	1.50220129	0.92626252	1.30406728
##	[65,]	2.0198492	1.623112522	-0.01134219	-1.32725545	1.01198972	0.85291520
##	[66,]	4.5800897	1.598492850	3.17568393	1.96166232	1.83833808	1.73065442
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##	[71,]	1.5206846	4.646824157	4.08525880	2.24624656	3.98847776	-0.28255836
##	[72,]	-0.5605527	2.295544329	0.14275612	1.22894256	0.84651027	1.16061923
##	[73,]	3.5234681	1.687596223	2.81901051	0.86918362	-0.43148623	0.13296869
##	[74,]	5.7974359	-0.041364391	2.89714406	3.38436408	4.37172473	-0.71370529
##	[75,]	3.7333391	0.681869198	3.26607443	3.11535947	3.69328933	0.82091576
##	[76,]	3.9997840	4.826786335	3.12644777	1.66739104	2.90218312	1.22348596
##	[77,]	0.4589266	2.128161237	5.81634654	2.35346155	1.47788659	5.28912735
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##	[81,]	1.9845588	4.381410071	0.93144294	3.56592321	2.85105166	-0.15841393
##	[82,]	0.4025255	2.407826702	0.21639825	3.55803231	5.05347171	-1.27252042
##	[83,]	1.9566215	2.614375008	1.66779581	2.75082545	3.18932200	1.28477890
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##	[85,]	2.6468475	2.250673038	2.10501127	-2.42777034	3.15930375	0.55692788
##	[86,]	2.0934276	4.431185637	1.91305069	1.42308801	4.42537302	-1.99998912
##	[87,]	0.4664452	2.328294871	2.03327029	2.96837421	-0.30678416	3.67804411
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##	[95,]	4.6891576	0.997631299	5.34398432	-2.58710265	3.09429063	2.35958876
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##	[99,]	3.2534111	3.955821555	2.34315918	1.34061026	1.98002195	2.89371012
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##	[4,]	2.04099905	2.13234278	0.8341445	3.13029364	5.526430731	2.85332703
##	[5,]	-0.08907828	3.59213075	2.4221694	4.74036682	4.201192123	3.18772852
##	[6,]	-0.70727739	1.33479009	1.1966284	1.83557433	5.037131413	1.51189711
##	[7,]	4.50540409	1.44708938	4.4854654	1.37163970	-0.082632963	0.99869889
##	[8,]	0.59251604	2.01885751	-0.6587915	2.58207204	2.483222063	3.27380734
##	[9,]	-0.56299624	-0.38175469	1.9191931	1.03253462	-0.058701417	0.44248196
##	[10,]	-0.63064589	0.08391760	-1.1518491	2.21188020	-1.803658850	1.94985933
##	[11,]	-2.92786430	1.88707213	-0.2682861	0.82521676	0.100512326	0.44829698
##	[12,]	1.76415663	0.37146983	2.6841606	1.21895827	4.872259683	1.41190774
##	[13,]	2.35308417	2.66851123	2.1712377	0.81489848	1.153486798	3.68109088
##	[14,]	2.59871479	0.60702899	2.6503233	2.71926772	1.026038081	3.17000574
##	[15,]	0.94695631	-1.84950638	1.7814679	1.65493344	3.424723817	0.38142932

##	[16,]	1.94046577	4.81680078	0.2515057	4.55073453	1.421773491	3.01719331
##	[17,]	2.52558088	3.01294978	1.0598502	3.83597294	4.562812984	2.78401293
##	[18,]	1.33521017	3.74287217	4.7189025	1.92912358	-0.008615922	3.16661455
##	[19,]	1.64019390	3.46946446	-0.4346629	0.25311960	4.089654730	4.33505209
##	[20,]	3.96068581	1.49783801	3.1187064	2.84522182	1.984815232	2.27325947
##	[21,]	3.29534202	3.64082842	2.1374769	1.42987371	2.569273591	5.70703848
##	[22,]	2.00922106	2.76868897	3.2117615	3.02480031	4.492510592	1.39076606
##	[23,]	1.67150189	2.08114037	1.8831577	0.51206313	2.528441789	0.89744055
##	[24,]	2.58121241	0.65424786	2.2560321	0.43270713	0.673980346	0.45742724
##	[25,]	-0.59100425	-0.77957383	0.6731984	5.00267145	1.615827305	3.06071597
##	[26,]	5.32805545	0.13579723	1.1899401	3.79710351	2.695578683	4.38074281
##	[27,]	-1.14018553	-0.61751115	-1.3573555	0.76376649	0.859229041	3.42492874
##	[28,]	1.80231596	0.09764005	2.4382349	3.82323744	0.271846315	5.38687938
##	[29,]	3.33625289	1.49464249	0.9777955	3.25583074	0.486325307	0.14975449
##	[30,]	-0.83963622	2.53560582	0.8850761	3.14242780	0.248688600	2.01294186
##	[31,]	3.09069732	0.72541370	3.4671115	4.08130503	0.364392093	1.54818026
##	[32,]	0.12700641	3.82711969	2.9436343	1.04023043	1.711004320	2.22196530
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##	[34,]	3.40084085	2.18561123	-1.0199391	0.72706361	-0.708960436	1.67515873
##	[35,]	-0.33151260	-3.07306784	1.1582649	3.37659362	3.371364177	1.03236689
##	[36,]	2.92987833	0.47490726	1.9697855	2.33182585	2.085125394	1.33484524
##	[37,]	-0.12105696	0.46378424	3.0138796	2.73174402	3.255537212	3.25570378
##	[38,]	0.91563294	2.40827485	2.3426592	1.36193545	4.704046793	2.28640926
##	[39,]	4.10473237	3.42489599	1.9999262	1.93994773	1.144054203	0.78276102
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##	[42,]	3.32442885	1.20697730	4.7854152	2.20144709	2.002112868	-0.71555419
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##	[44,]	-0.02741664	0.78004180	-2.5279812	1.24617898	2.166825037	-0.60712365
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##	[48,]	-1.30054264	2.56077334	2.7842030	3.17952124	4.546866871	1.63741418
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##	[37,]	2.451069137	3.068742133	3.70003806	-2.568741415	1.09057030
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## [77,] 0.028660109 1.174858725 1.13041169 2.010299009 3.89576235
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## [29,] -0.38754019 0.37680332 -0.82357526 2.80835868 2.5316994 2.48945508

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##	[31,]	0.76573860	0.88499335	1.97421287	0.71717062	5.5114964	0.10702659
##	[32,]	3.18573519	2.68851749	-0.88477267	4.92862626	2.6394870	1.22238393
##	[33,]	4.97364436	-0.62941888	0.68616852	0.20465168	4.1732332	2.25210482
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##	[37,]	2.71115583	1.68283786	1.49692502	-0.59760593	-1.4295981	2.67411758
##	[38,]	4.29703685	-0.17548656	1.63874057	2.66128250	0.3678445	5.17331445
##	[39,]	-2.47978129	-1.24161482	0.95460683	6.74868505	-0.7041430	0.94325953
##	[40,]	3.64227548	0.80800562	1.01422459	1.61884549	2.0715355	2.15723039
##	[41,]	2.71565418	1.95076699	2.83782608	2.49056595	1.0132624	2.42654859
##	[42,]	3.30293159	7.21091566	3.47764616	1.15932673	2.7717189	0.27839074
##	[43,]	3.93212501	2.94428343	-0.75229269	5.57856688	2.8783677	2.15297798
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##	[45,]	1.65700838	1.99918666	3.34688940	3.42640566	0.7227023	2.23912473
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##	[37,]	0.75795920	2.95203442	1.9188154	1.56832584	1.854496673	2.56583709
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##	[42,]	2.14049753	0.73035733	2.5889418	2.14495255	1.859640253	0.51299957
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##	[44,]	0.61921752	1.34673146	0.2100281	2.57710157	1.731030121	2.98046312
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##	[51,]	1.68708175	3.05904113	6.1587047	-0.40894210	2.954036126	3.27157694
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##	[75,]	0.38672616	2.07880041	2.1296062	2.38984378	1.897721958	0.39340368
##	[76,]	1.06616386	1.51119324	0.4624751	1.31971244	0.811767144	2.66446820
##	[77,]	1.76757636	2.05743087	3.1988684	4.15686707	-0.837027887	1.62867604
##	[78,]	0.70611421	4.23758634	4.6222451	2.57794778	-1.783721067	1.07899823
##	[79,]	-0.79897174	0.00302775	-0.6606247	0.67324717	-0.511027506	2.09422393
##	[80,]	3.79701193	2.52291571	2.4600403	3.46480058	2.264494869	1.58120113
##	[81,]	0.58000066	2.22527144	1.4040372	2.63745163	-0.895059055	2.30484704
##	[82,]	4.03846366	-0.84535732	2.5468203	1.02406490	-1.993797281	4.37737633
##	[83,]	3.12569811	3.79323426	3.3569216	1.17158692	-1.187220078	4.98577395
##	[84,]	3.07275986	2.08894917	0.2717209	3.57407829	1.358342471	-1.85223121
##	[85,]	2.67553848	1.06443313	1.5684371	6.67143944	0.229324215	1.85564243
##	[86,]	1.01855055	2.35961618	5.0347045	3.24099617	3.242214474	3.54306272
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##	[52,]	2.970691149	3.22554783	2.72817230	0.31041084	1.30873836	1.24353669
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##	[54,]	0.459817923	2.43431219	-0.75307246	4.66302011	1.48081719	-0.07949296
##	[55,]	3.374731152	3.62595474	0.43260485	0.25454451	1.47081669	1.27106975
##	[56,]	2.395701068	2.49996159	-1.05912526	4.51054072	-0.41463740	0.95285717
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##	[6,]	0.01278696	2.398187330	5.60536187	2.49864655	2.199652767
##	[7,]	0.32774056	-0.816597749	0.85295515	2.60864186	1.471822771
##	[8,]	-0.75191999	1.518264651	3.69540936	3.75620304	6.126185315
##	[9,]	4.10959439	2.249346478	4.51882235	2.60189874	2.058267764
##	[10,]	3.79214573	-0.055001444	3.94022476	0.74995231	0.464311250
##	[11,]	0.96787489	0.277202416	1.98273217	3.52621613	3.210578552
##	[12,]	2.59095607	1.025874816	-0.72826129	3.47854116	2.467434460
##	[13,]	0.51668703	6.334554963	0.74859627	-1.38593825	-2.486122938
##	[14,]	1.70214570	2.481697617	1.16966767	1.86737200	6.486512009
##	[15,]	2.22426755	2.161566199	3.90661564	-0.33162729	2.082701417
##	[16,]	1.09754607	2.251269068	4.34325545	3.12986309	3.901115799
##	[17,]	1.77383043	4.985504479	2.47611083	2.05092813	6.074074061
##	[18,]	1.23827554	6.719937677	-0.50849529	-1.13002748	-0.529892951
##	[19,]	5.02370694	2.000610627	1.76214730	0.24798741	4.129306282
##	[20,]	2.96362419	2.812475542	5.23927056	0.10476659	-1.787616120
##	[21,]	4.18325490	4.222304290	1.28512155	2.48085139	0.584777254
##	[22,]	2.70837107	1.241211302	3.88986690	0.67644723	-1.165752436
##	[23,]	1.11687236	-1.212536901	1.84942058	2.24952067	3.218877803
##	[24,]	0.71156529	4.111908320	2.09103795	3.02678100	3.584076101
##	[25,]	3.42881800	-1.437177797	3.60707668	2.02348390	3.066060703
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##	[16,]	-1.70569014	0.240839291	2.263936870	-0.02486300	1.660032774
##	[17,]	-2.45848297	3.116948568	0.681828030	-1.98351625	7.421573014
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##	[19,]	0.24645678	6.374562377	1.959023748	-0.29002510	0.126182718
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##	[21,]	5.34058488	1.935822789	2.086206002	0.62590676	1.145244120
##	[22,]	-0.64671658	1.802031353	4.836359295	2.12749251	0.998239626
##	[23,]	1.71619215	2.250534192	2.042806001	0.16707823	2.047624533
##	[24,]	3.37307587	1.769722171	-1.049342808	2.69818737	-1.423393157
##	[25,]	0.63615072	-0.383753191	2.906898123	3.05450466	-1.509483157
##	[26,]	1.56522245	2.746151594	0.710321989	3.81556743	2.546122287
##	[27,]	0.49035828	0.528988354	-0.598412443	0.61524228	1.728867647
##	[28,]	3.63301221	1.255832253	-0.753966371	1.57647488	2.326853977
##	[29,]	0.05427152	0.020899833	-0.025341286	2.60432609	2.821205888
##	[30,]	4.92713013	1.001934877	4.892728682	3.97240655	-1.412397744
##	[31,]	-2.60676811	2.151024301	0.900495245	0.25294912	1.385372593
##	[32,]	2.01538086	0.421092355	4.130649353	1.38917219	1.617636757
##	[33,]	4.98484960	0.984838296	-0.984262601	0.74487359	0.587823546
##	[34,]	4.33762898	3.210210735	4.029582427	-0.08060368	3.595164384
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##	[36,]	2.75279053	0.338243049	2.773383285	0.83912197	-1.992903773
##	[37,]	2.51956318	0.811354925	1.728162304	1.84236765	2.343188153
##	[38,]	3.38627705	2.035318742	0.108873875	3.46766089	-0.338288822
##	[39,]	3.63019196	1.219110123	-0.036033862	4.35095462	4.157294604
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##	[41,]	-1.69076793	4.701129222	-1.807080648	-0.15298626	-0.090043676
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##	[43,]	0.17337204	3.689886557	3.190331938	-0.30373768	2.910069281
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##	[46,]	-0.39263000	2.716252692	2.447279303	1.54205468	1.044887423
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##	[49,]	2.17688809	-0.811022929	-0.612632719	-0.74556755	0.985295311
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##	[55,]	3.15826451	3.030925292	5.064195282	5.39709615	1.764966799
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##	[60,]	2.69398048	5.099429462	0.759047975	5.31837028	1.207079297
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##	[40,]	3.20299795	1.67841254	0.97758044	2.631921289	1.91276658	2.60637070
##	[41,]	0.52232663	-0.11244623	-3.51837954	4.164542309	2.60519711	1.45194438
##	[42,]	-1.95221223	1.46283069	-2.18644205	0.692954618	3.88124296	1.52409417
##	[43,]	0.10110444	2.29385252	3.64478505	1.825996895	1.07106735	4.24629608
##	[44,]	1.97885823	0.39534653	0.01210623	5.141497544	4.97728021	0.57623575
##	[45,]	-1.41053345	-0.19285167	2.93371626	3.497327360	5.61038983	3.57853350
##	[46,]	0.87764926	-0.54993486	3.41065059	-0.977755792	2.35668421	3.49920740
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##	[48,]	3.23514061	1.58533013	1.69917707	-0.199325193	2.45182578	4.60061089
##	[49,]	3.42124138	3.36330845	2.17367989	-2.648499112	-1.30807979	-0.69809037
##	[50,]	0.05616996	2.09338424	-0.38337158	1.774170969	-0.21827853	-0.11064554
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##	[13,]	2.73796419	-3.18132572	1.02387327	1.198790132	-0.62322700	0.37855892
##	[14,]	1.16403163	2.14712921	1.13698568	2.782824794	2.55926081	-0.39733634
##	[15,]	1.44782810	0.64471092	0.15758762	5.309244844	4.43423374	4.49320562
##	[16,]	0.78970133	4.69043973	-0.65427062	3.989473303	3.62134843	2.18177640
##	[17,]	1.72716434	-0.45762269	2.94797147	2.708566261	2.22408932	1.40202264
##	[18,]	-0.19060954	-0.12958088	3.13273712	4.019774123	3.77567462	1.23850850
##	[19,]	4.17556166	0.16934588	3.45741536	0.968775304	0.35650933	1.93298463
##	[20,]	-2.79287277	3.35796358	3.75354500	2.307014227	-0.58488357	3.94371172
##	[21,]	3.72580430	1.21424384	1.12732922	0.443301075	3.90123428	-0.71121537
##	[22,]	1.93223097	4.66647229	-0.23904297	0.663419416	3.22054666	1.41461517
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##	[17,]	4.7374271	-1.024844481	3.025395820	1.96375474	1.85339893	0.75116921
##	[18,]	1.6314892	3.213296080	3.028802751	2.33773271	0.40222667	3.47170399
##	[19,]	-0.1615864	5.437566021	5.204101307	2.28325896	0.97032066	2.29860302
##	[20,]	3.5864399	3.393191904	5.054086751	2.85474488	-1.90969110	3.83463362
##	[21,]	3.0117867	0.725086196	0.410477607	2.40760960	1.37557899	0.50941925
##	[22,]	0.3817688	1.700631321	2.250488644	1.49217274	1.42912599	2.85400831
##	[23,]	2.3781064	-0.774590081	0.163709898	1.71579697	2.88293931	1.57692398
##	[24,]	2.6352070	2.595370126	3.246766317	-2.72945654	2.22467274	1.52750516
##	[25,]	-0.7787340	0.985587156	2.498702430	3.30065269	0.51470414	1.68214496
##	[26,]	1.4141458	5.871217850	3.791339502	2.78822006	-0.27921119	1.38261530
##	[27,]	0.8165732	4.313910750	4.699120458	0.24388275	4.30886764	5.23794115
##	[28,]	1.4789143	1.494296571	2.607487365	2.21507447	1.82622071	3.82741815
##	[29,]	1.5523774	-0.714483286	0.398482430	3.22940093	-3.40566390	-0.06896226
##	[30,]	3.4183518	0.717032343	0.574059867	1.31486611	-0.53168902	5.11996025
##	[31,]	2.7347577	0.206464508	3.363111035	1.54096557	1.53487999	3.41412394
##	[32,]	-1.4219365	-0.787854884	2.535076214	2.33113955	2.96319576	0.04662936
##	[33,]	1.4969034	0.002426696	-1.106712059	-0.35201363	5.40855504	1.06668523
##	[34,]	-0.4214103	2.246941606	0.691013817	1.41503311	2.12409523	1.24259488
##	[35,]	4.1371160	0.036721929	0.366345751	-1.84216432	3.18395609	-0.47309880
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##	[37,]	1.3191662	5.119179603	-0.034997147	-0.38281286	6.40210119	2.52582579
##	[38,]	-0.4520902	0.516827950	4.511595405	1.47782312	2.90336529	1.51225274
##	[39,]	-0.1736714	-0.530282616	0.202061347	-1.93069104	3.22979997	2.35241578
##	[40,]	-1.5317305	2.230121247	-0.633895295	2.64713983	1.32799444	0.93384621
##	[41,]	5.8019291	1.100746273	-2.158473603	2.18129305	4.84977002	3.11060118
##	[42,]	-0.2127684	3.382740314	2.550590249	1.28588470	2.12771502	5.49220542
##	[43,]	1.9739231	3.858777459	2.190574277	-0.68349489	4.23198927	3.59222867
##	[44,]	2.3770800	1.255376738	0.432094490	0.49562520	3.36473513	2.66733669
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##	[46,]	0.9161060	-0.644550979	0.100393283	5.23484025	3.55917643	1.91424137
##	[47,]	0.3585844	0.871085262	2.234589063	3.44655333	1.82672515	-3.10203868
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##	[68,]	5.0478563	2.810301151	5.985271929	3.40115840	2.05904131	2.30359422
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##	[70,]	3.0587071	2.573147911	2.003094837	1.60986085	1.09142546	2.64489245
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##	[73,]	0.6971207	-1.585968200	0.889711948	0.57047910	0.99363846	0.74610775
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##	[77,]	2.2076067	0.832418505	1.788631985	2.60952349	-1.12277738	0.82441791
##	[78,]	4.1333241	0.328017780	3.145247210	0.78118529	2.61043253	3.44696531
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##	[88,]	-0.5611027	0.038248262	1.721708819	2.57402571	4.09094760	0.10455472
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##	[94,]	0.5004502	3.028109874	0.007107578	3.35583810	0.13547247	2.23592378
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##	[19,]	1.36724290	3.10588048	1.807485393	0.28366945	0.91734886	0.59233318

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## [91,] 3.36011948 3.75440883 5.729240990 5.45533662 4.68742145 2.42655525
## [92,] 1.77862605 1.41162271 0.771708713 -1.16841963 -0.04331947 -0.36599357
## [93,] 4.22099717 1.51250044 1.451829064 3.83724806 1.42387350 -0.10008647
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## [97,] 3.19571887 0.16009505 1.767229026 2.14689234 1.80282506 1.47942070
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## [3,] 2.4983692 2.65512944 2.99377407 0.52428152 2.8579984 3.64171212
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## [9,] 0.8552238 2.34306993 1.20925048 3.54930389 3.0930888 4.68354879
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## [13,] 2.9369027 2.32299694 1.05524662 4.90878179 4.0858782 5.79254329
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## [15,] 0.6687549 0.32502494 1.91370899 0.33707055 2.0604731 2.60956148
## [16,] -0.2970970 0.45999818 4.10720805 0.77735148 0.5953946 3.46571025
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## [22,] 4.4683897 1.61466742 1.66098336 2.34640722 4.1464762 3.10478160
## [23,] 2.9175516 -0.99537133 1.25881683 3.66024709 2.1711191 3.73753392
## [24,] 1.2474615 4.52059737 0.95064707 4.15383499 0.1305916 1.25878113
## [25,] 2.9108281 4.63116562 -1.36330906 2.51494331 0.9738425 0.70497108
## [26,] 1.1902608 -0.04676408 1.03571649 2.96262364 -2.1159733 4.95019759

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##	[27,]	-0.6281964	-0.53204972	-1.12870814	1.32705791	3.5378704	0.80856434
##	[28,]	0.3647125	3.31144519	3.54676860	-1.11286241	-0.9923076	-2.84362882
##	[29,]	0.6054266	2.04035314	1.02581683	2.38937961	2.7777870	1.43255182
##	[30,]	4.2512812	0.94483384	0.12112565	1.53507611	2.1972042	4.06095049
##	[31,]	2.6910640	5.27342269	-0.30433345	4.41967033	1.1238833	0.90512090
##	[32,]	2.3809339	-1.51672245	-1.23680310	2.65356829	1.7496602	1.36063538
##	[33,]	1.5165882	3.90420853	-1.41384470	2.34606532	-0.6983908	2.85204685
##	[34,]	3.7711939	1.88007816	2.86831355	2.50788994	1.2197366	1.75423990
##	[35,]	6.2693433	1.57338003	3.73300628	2.91352446	3.2403256	2.37052289
##	[36,]	2.2342133	4.67133941	5.99251947	4.25316637	0.5615018	-1.23067686
##	[37,]	2.7675147	1.32565388	1.58287106	0.44794399	0.5114547	3.73151009
##	[38,]	1.0255064	3.09532322	2.90993307	2.79358475	3.3186558	-2.46861305
##	[39,]	4.8006817	3.42853142	2.23795329	0.35045789	2.2954934	3.38236769
##	[40,]	2.5208182	0.25163662	1.13786415	2.46516455	5.6285851	2.05247996
##	[41,]	4.0924136	-1.80968503	0.84910453	3.92983301	2.1880864	-0.94112713
##	[42,]	5.8712751	2.84745989	0.72512034	0.95223518	2.1938184	2.38268557
##	[43,]	3.1569467	4.46734240	2.59724460	3.17648539	1.9246432	1.73011493
##	[44,]	1.2654804	1.68342008	4.18055879	2.99735055	1.1102892	3.21551893
##	[45,]	1.9577582	2.25837953	0.97050480	2.07364532	3.9135809	0.39204239
##	[46,]	2.2348009	0.94512914	3.83966233	1.71791498	-0.3684521	-1.44988024
##	[47,]	-0.4693575	3.19778065	2.27354514	2.27251650	1.7264253	0.21812083
##	[48,]	4.3441964	1.85026649	-2.00756758	3.75529819	1.3257215	-0.09190695
##	[49,]	1.8150502	2.06818251	0.32716427	5.83479991	-2.2063085	1.80477312
##	[50,]	1.4004626	5.60121537	0.31667807	6.01281700	3.1442096	3.57207497
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##	[52,]	3.5926593	0.61318773	1.37172135	0.39434709	0.1129028	-3.67663928
##	[53,]	0.7467311	0.44873587	2.50532916	3.05473964	-3.0222154	-1.10930548
##	[54,]	1.7463273	3.87135977	3.66016253	-1.83067959	1.3064142	-0.77034056
##	[55,]	-0.3467570	0.54013330	0.69407836	1.62554961	3.9496605	1.97215479
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##	[59,]	0.8998832	1.18480941	3.91048728	4.77537356	1.4650753	1.17541324
##	[60,]	-2.1208729	-0.38690657	-1.18746373	1.28522602	2.8595878	3.14850971
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##	[65,]	-0.2300511	0.54417257	0.77895856	2.07986025	1.7356848	2.48146991
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## [82,] 3.1303638 1.03668653 2.20669753 4.32430190 1.6271111 2.52800462
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## [6,] 3.42232302 0.33655914 -0.27246530 2.578881300 0.81320581
## [7,] 1.59312102 5.45345797 2.28802837 1.739647415 1.51165522
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## [9,] 1.60824060 1.85005335 0.47070862 -0.317043068 0.89944941
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##	[34,]	-0.95843012	4.57829910	3.67047663	1.632453719	1.89270823
##	[35,]	1.91656264	1.70880697	0.43834764	2.999611073	1.47367817
##	[36,]	6.41198741	1.26525816	2.82206365	1.954574635	3.82955707
##	[37,]	5.15298261	2.61189395	2.37009376	3.664868692	-2.86511466
##	[38,]	3.50621200	2.92291497	-1.91741806	2.672455548	2.65069896
##	[39,]	1.62210862	3.50417939	4.38266096	0.413719682	-1.91697154
##	[40,]	-0.94561397	2.59517896	2.35389682	-0.999876082	5.53712341
##	[41,]	0.93484081	3.16765676	1.86915490	1.743711334	0.96394239
##	[42,]	4.61930437	0.65530669	4.10049219	1.583185968	3.28212206
##	[43,]	0.17215444	3.08932074	2.50533464	2.308709703	-2.85669128
##	[44,]	2.79939101	2.19992684	3.04277491	-0.408843786	0.36029092
##	[45,]	0.62398583	1.92019189	7.54435213	3.588200185	0.86857889
##	[46,]	1.62887128	-0.85066995	0.81118008	0.559230991	0.36841648
##	[47,]	0.65891788	0.44812670	0.99235842	0.942779443	3.18376575
##	[48,]	1.55923211	2.42428282	0.10684362	2.425966302	1.48770657
##	[49,]	0.36318444	-0.09330862	0.83635928	1.227303674	0.12464322
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##	[51,]	1.18718768	1.98986629	-2.19391828	0.303153119	1.41822910
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##	[54,]	1.07726962	3.08084002	1.49768869	2.845464734	1.21240058
##	[55,]	2.54602149	0.06612767	3.63590138	3.251180782	1.22786173
##	[56,]	3.43452993	2.64681336	0.04583276	3.214018383	3.97855136
##	[57,]	3.03830406	2.55598842	1.67369206	0.526624561	0.55196286
##	[58,]	1.77864838	3.94091323	1.08359734	0.007902046	1.42894478
##	[59,]	6.14894605	1.05063629	-0.50637841	3.678996292	1.81740620
##	[60,]	0.78474761	0.30416414	3.57695006	4.614410588	0.47701339
##	[61,]	-0.85910820	1.79482276	1.18716660	0.130268374	1.81709079
##	[62,]	-0.52679533	1.21936456	3.81599262	0.745822172	2.79723545
##	[63,]	4.95744817	-0.45980557	0.84533679	2.473873458	4.28817002
##	[64,]	1.44571928	-0.77568566	-0.26738423	2.377326423	2.34566456
##	[65,]	-0.55729384	1.69290456	0.57239085	1.769745143	-1.50740684
##	[66,]	0.62379854	3.94154547	4.34504757	0.281711402	5.15705512
##	[67,]	2.21809012	1.22490041	1.49876963	2.301680825	1.19596128
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##	[69,]	6.80905226	0.40137101	2.60722747	2.814110241	4.20022058
##	[70,]	1.13746704	1.41084772	0.30252034	0.990188104	-0.53918268
##	[71,]	2.74492380	-0.06243244	-0.22714036	-0.013601889	2.49972224
##	[72,]	2.13510306	3.35337799	1.92184674	0.872638881	3.56509401
##	[73,]	2.67744894	3.09499591	4.59916840	3.265275064	2.18687145
##	[74,]	3.06837156	-2.21178924	3.80039612	5.182249022	0.55635578
##	[75,]	3.99440770	1.86814518	2.09590639	2.984178269	4.41203857
##	[76,]	2.10487176	3.59383435	0.84360343	2.266485040	2.69166707
##	[77,]	1.71536723	2.77442746	1.93105154	0.480889699	-0.06240586
##	[78,]	-0.36645032	5.81449401	5.27828107	6.768869670	0.88461920
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##	[83,]	3.78733268	4.06163207	3.38242428	5.217144574	4.30796422
##	[84,]	2.44064988	3.64378402	-0.92662954	0.504851836	0.26289211
##	[85,]	1.51027982	3.19108465	-3.04157386	-3.820187410	6.79001074
##	[86,]	3.29070413	3.52831198	-0.23228443	-0.990353284	5.82030141
##	[87,]	1.50012302	2.31647937	1.57603840	3.745201164	-0.58927444

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## [90,] 2.22234254 3.17781451 1.54586335 3.155842584 1.92461012
## [91,] 0.78112926 0.97450072 4.78851658 2.060390563 -0.52732531
## [92,] 3.05346367 0.94410416 0.19444887 0.372702366 2.51431775
## [93,] 1.30563174 2.77179437 2.46245560 4.737215826 -0.15084821
## [94,] 1.15619167 -0.23474591 0.53785621 1.660687469 2.98380534
## [95,] 0.40474857 2.72326145 7.25347007 1.599087958 3.58871119
## [96,] 0.15879264 1.82263100 2.83371986 1.657386576 2.53291550
## [97,] 2.82829597 2.39620036 3.67448886 1.468205891 0.09084321
## [98,] 2.71235546 1.26038226 3.09407508 1.978998452 2.92673336
## [99,] 4.43202141 0.14943575 -0.02286541 1.275512169 0.90542945
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## [3,] 0.961183382 5.483281816 2.37320069 3.46007979 0.17673534
## [4,] 0.501636195 -0.769841469 0.66337851 2.32155631 2.32187065
## [5,] -3.400078241 1.045873509 0.20973928 -0.53115966 1.76451374
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##	[95,]	0.952608031	6.338723861	2.99787868	1.22751142	2.54359201
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##	[97,]	2.015587204	2.755211231	1.22684117	3.30338629	1.59891932
##	[98,]	7.286664366	2.884412753	0.54830619	4.41182356	0.97674007
##	[99,]	2.183218945	3.815926146	4.86526792	1.11330112	1.78716844
##	[100,]	5.962361768	0.553530852	3.92206895	4.35325385	1.08499420
##		[,373]	[,374]	[,375]	[,376]	[,377]
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##	[2,]	1.82715875	0.250470889	3.191408241	0.10980681	0.337684587
##	[3,]	1.47670075	0.563383116	2.795530900	2.61009630	2.108198656
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##	[8,]	1.52980703	6.207958614	1.483715349	-1.33416196	0.852102703
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##	[10,]	3.01090885	1.332450573	2.451782735	2.53210781	4.175194485
##	[11,]	5.01756537	0.386890804	0.313217853	0.57262570	-0.405724680
##	[12,]	3.53870251	1.546800002	2.460267353	-1.01749734	0.843733793
##	[13,]	0.36410870	5.050416972	3.500146983	0.59635318	1.830435262
##	[14,]	-2.31481595	2.350270468	2.817731018	1.63927352	1.149791495
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##	[20,]	1.67540911	-0.563751300	2.396689823	0.72726927	2.157733800
##	[21,]	-0.44406144	-0.310096519	1.901330285	0.40948272	1.316242064
##	[22,]	3.06266159	-1.895773179	0.906038213	0.42229726	3.874890105
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##	[24,]	2.67399963	0.037203665	2.346390313	1.99285425	2.358405324
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##	[31,]	3.24159851	2.172721192	3.358732546	1.17786674	1.418407793
##	[32,]	0.30202740	1.907765797	2.348554676	0.76371593	1.387184487
##	[33,]	3.31960308	1.080609697	1.184792816	1.89673513	1.204865211
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##	[39,]	3.67544032	1.620261513	8.129322132	-0.51251632	2.235112446
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##	[48,]	-0.18759727	1.416476186	1.376267978	1.63263684	4.367418840	
##	[49,]	0.35070432	-1.551703713	1.683828857	5.96269600	-0.184904283	
##	[50,]	0.59873073	-0.139392485	1.783599457	3.37438394	-1.615868175	
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##	[56,]	0.47729239	0.508536823	1.449917808	1.55180057	0.001968955	
##	[57,]	1.65194608	3.225506979	0.230243426	1.99176998	1.740379189	
##	[58,]	1.95685423	3.328101392	3.310854144	2.08220396	3.450975474	
##	[59,]	3.98459326	0.698322866	3.443151789	0.01472799	0.829485508	
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##	[61,]	4.99950843	3.309552317	4.392164126	2.09322501	0.606284335	
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##	[65,]	2.73455210	0.739059162	-1.245667254	-2.03429646	3.684265031	
##	[66,]	2.75801545	3.537266249	-1.334582057	4.82561805	0.980047572	
##	[67,]	1.14528040	2.507172862	1.502120678	0.75865928	3.512526506	
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##	[69,]	1.31222874	2.577751845	2.096813348	3.00472333	7.291265060	
##	[70,]	1.80515092	3.906100715	2.527484372	1.24639986	2.685012361	
##	[71,]	2.23289925	3.321218518	1.288493261	1.78445101	0.210881674	
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##	[77,]	-0.07696295	-0.424486602	1.374276104	1.96329243	3.631359388	
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##	[82,]	2.22036065	0.115555906	1.853041575	3.59921698	1.230503473	
##	[83,]	5.98655730	-0.406409493	3.056291497	-0.89225768	1.052711662	
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##	[88,]	1.13899718	0.513030814	0.724068270	3.06067642	4.471015445	
##	[89,]	0.87150832	0.538019638	-2.095176297	3.76862653	1.103381937	
##	[90,]	-3.38509235	2.851725458	0.599449618	4.17316018	0.999091472	
##	[91,]	3.84146770	3.255444589	0.900694894	1.35358926	2.751009060	
##	[92,]	3.89367565	4.049048202	5.388109677	-0.42097930	4.047728246	
##	[93,]	4.97596118	2.618636835	3.097322604	2.13648413	0.188261681	
##	[94,]	2.52681840	0.008530757	3.488783197	1.34285444	-1.267994921	
##	[95,]	1.46278330	0.032635398	4.463762655	0.93503394	-1.457885175	
##	[96,]	2.09547804	-0.790326074	2.423499580	1.23715484	3.826740873	
##	[97,]	0.19847084	3.818860546	3.532834851	1.27801749	-0.444183970	
##	[98,]	-2.74347448	4.108208302	0.009559871	0.74722989	1.463520278	
##	[99,]	1.81612258	4.813124471	0.686063561	2.52763196	1.444304652	
##	[100,]	0.69339879	1.394496951	6.741530205	1.42215264	2.042112284	
##		[,378]	[,379]	[,380]	[,381]	[,382]	[,383]

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##	[2,]	0.98170195	1.14739775	-0.79679682	-0.51928841	4.60966101	0.09451662
##	[3,]	4.78075941	-1.14437666	3.83883230	3.42515064	2.62886818	1.37952883
##	[4,]	3.45051500	0.72474961	4.07457587	2.10084641	-1.83428972	2.32592300
##	[5,]	1.70312037	1.41682403	1.04460869	3.37310759	2.75799283	2.22376762
##	[6,]	2.56687812	4.13976052	1.77700284	-1.15667547	4.13119850	-1.38783113
##	[7,]	-1.16240770	2.99437269	4.62307677	0.94153520	-0.98608890	1.83553797
##	[8,]	6.05630887	-1.82854419	-1.85432675	1.45630883	0.21213255	3.82380178
##	[9,]	1.63641473	2.33653552	2.79320530	3.61470637	1.71566377	-1.15838917
##	[10,]	-0.15667252	0.93648691	2.04386186	3.19847162	-0.16139703	-0.03708097
##	[11,]	3.01317621	3.11376097	-2.55160781	2.82878309	3.19545673	-0.51626323
##	[12,]	1.65411237	2.33779883	3.46914570	2.21769800	1.80154856	-0.33001356
##	[13,]	-0.07661212	4.54996711	2.26824382	3.35924801	2.34459085	1.82145542
##	[14,]	3.82090207	1.14870267	1.92911983	0.37392762	4.66707513	-0.32698003
##	[15,]	1.36546645	1.46419854	2.61645953	3.15564691	-0.38394752	-0.99450625
##	[16,]	-0.11627903	3.29512989	4.46552285	4.13439329	2.88068614	-1.05496391
##	[17,]	0.93273550	1.65107965	0.72352986	1.52636001	-1.53753599	2.02227689
##	[18,]	2.34947059	1.52389938	1.80020586	3.36866909	-1.52074306	2.11664151
##	[19,]	3.83533356	1.71994255	2.79510527	0.52507895	2.21828643	-0.32787641
##	[20,]	1.83447619	1.35689538	0.43505610	0.43719852	2.76159374	0.47008291
##	[21,]	0.51594034	2.16574213	2.20100720	2.96044932	-1.02407567	0.47983549
##	[22,]	4.35420864	0.98502640	-0.02103152	0.43683476	5.22829788	2.58849174
##	[23,]	3.74709973	7.29602022	2.85260485	1.96468675	2.53921526	4.32449337
##	[24,]	0.64295030	1.18380334	1.50797165	0.87176914	5.18737542	4.02773643
##	[25,]	2.69581224	1.44657528	4.35222263	1.35101635	2.04997592	-1.04113925
##	[26,]	3.24597861	5.07137764	1.92124370	-0.67849073	1.32282259	-1.55411755
##	[27,]	2.36869846	2.15229123	3.21037866	3.97392421	-3.09512457	3.86518365
##	[28,]	1.04150886	-1.40099577	2.31658492	0.95675015	1.76206492	4.35290954
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##	[31,]	2.57828707	-0.63059552	4.28975443	2.24860317	3.24511088	-0.19478282
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##	[38,]	-4.22233598	0.92370515	-2.48305647	2.37218489	-1.32687965	2.77048115
##	[39,]	2.01248274	2.74207616	1.01232923	2.71343360	2.87694102	0.17121985
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##	[12,]	4.36531533	3.0485272759	4.18689492	-0.03188089	4.64788324
##	[13,]	1.77673693	-0.8508009225	-0.80172688	-0.87160950	4.12278520
##	[14,]	0.67534550	2.1330301871	4.51415714	1.89713098	1.28227956
##	[15,]	3.70821525	3.2192572347	2.98606683	1.82444267	0.94205827
##	[16,]	1.96286016	0.2996385127	-0.24024771	-0.43369831	0.53535607
##	[17,]	3.80631494	4.2209665612	0.85567799	-3.09851793	0.25935830
##	[18,]	0.41679297	3.0086592543	3.87724718	1.82095679	3.62051689
##	[19,]	1.13908626	5.4864783775	-1.24190434	-0.39923207	2.66952387
##	[20,]	0.87400921	0.8838175420	1.56302616	0.34936939	2.13331236
##	[21,]	-0.13418150	3.4614768969	2.55836742	7.00333691	0.87562354
##	[22,]	0.98900041	4.7034403724	4.16380479	-0.52293409	4.17928811
##	[23,]	2.32903491	-1.2449766974	2.78950366	0.95477170	1.98408371
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## [94,] -0.56342056 -0.4731896327 0.40696705 3.32141781 2.62348894
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## [98,] 2.04803932 1.9290965773 2.16963479 -2.87092621 1.96862653
## [99,] -0.19356687 1.8134329685 5.12143395 -1.58528570 0.60845907
## [100,] -2.77420222 -2.2943078533 1.76042886 3.35082451 -0.20365897
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## [2,] 2.05141683 -0.296430182 3.35789596 1.658817402 1.310169092
## [3,] 0.65106097 -0.142859309 1.50065541 0.365989245 -0.169507334
## [4,] 2.95941521 4.744112166 -0.52640714 -0.827431783 2.003695817
## [5,] 0.42146443 4.306820221 0.86620608 -0.394716305 -1.977192738
## [6,] 0.48328446 6.253153556 3.69792297 1.851446968 1.439959835
## [7,] 4.33286679 3.594705946 0.88714211 0.675950321 0.469451536
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## [12,] 4.11573911 1.161885414 -0.20692558 4.090215380 0.333240293
## [13,] 1.28067188 1.971588373 0.14849421 2.011228425 4.419437679
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##	[15,]	1.88139461	3.870515557	-0.11100674	2.646766166	1.081474160
##	[16,]	-1.03219510	4.608569796	-2.81526231	2.916622413	0.620326004
##	[17,]	-1.35480563	1.300848566	3.84256002	-0.916643455	4.567829880
##	[18,]	5.31079523	4.518031001	1.34799202	2.173668695	2.348913132
##	[19,]	-0.26447420	4.309097260	-0.73163670	2.384764877	-0.864052199
##	[20,]	0.97683502	0.747746449	3.60582576	-0.327278296	-0.761183419
##	[21,]	-0.13524115	2.121647884	4.80609377	2.742539174	4.694257965
##	[22,]	0.98282883	2.733496497	0.44542410	3.309073004	3.135091800
##	[23,]	1.43130686	2.079853881	-1.89409348	2.135492173	0.664777915
##	[24,]	1.10727452	2.354608924	2.45939871	7.195404017	1.333412414
##	[25,]	3.42801440	3.511274317	3.89426685	2.768346768	-0.005498452
##	[26,]	3.29354902	-0.263161717	1.69948730	3.718448386	5.479146714
##	[27,]	1.88523695	3.177715813	1.98988146	2.491390324	7.115767207
##	[28,]	1.36899737	-2.178589445	0.58249107	0.554652224	1.776952813
##	[29,]	1.33466894	3.264908955	3.19486248	2.995004099	2.335418874
##	[30,]	0.97444332	5.149339701	3.57159484	-2.721209413	1.311826811
##	[31,]	3.91526778	1.662733717	-3.25462379	1.067618176	2.863582171
##	[32,]	1.18233671	1.279313334	0.53745107	0.229641055	3.841965017
##	[33,]	0.39666974	4.023837639	-0.02165492	1.813864498	3.836423436
##	[34,]	-3.52974649	3.169155778	0.63323806	1.677341659	-0.204336537
##	[35,]	3.96818620	-0.713065101	2.01692488	0.392665136	1.159410428
##	[36,]	2.48743974	2.534528453	1.69387845	3.978982649	1.576690044
##	[37,]	-0.09423545	-1.272029821	4.55826137	2.307776578	1.773390686
##	[38,]	1.87904513	2.505744912	-0.18518513	4.245522340	2.935167615
##	[39,]	-3.23972709	0.826917966	2.20079118	0.134991926	2.338652419
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##	[41,]	7.14440664	-0.079014119	-1.54461976	3.724603722	1.564181539
##	[42,]	3.62043934	0.136731940	3.92520210	-0.857035231	-0.110264321
##	[43,]	1.20350128	3.431282504	1.19183168	4.217621565	0.386476447
##	[44,]	3.86222572	2.545731817	2.52417078	0.835922625	2.277491972
##	[45,]	2.38909381	2.583125729	6.09453296	1.624808522	1.841000878
##	[46,]	2.31175683	2.886515323	2.80699531	2.970868118	5.626832502
##	[47,]	1.72659291	3.389992951	2.11108349	0.922064931	4.876366539
##	[48,]	-0.62044711	5.080231400	1.32068876	4.705902076	4.724872273
##	[49,]	-0.20881509	2.924143795	3.61033206	2.445892768	1.579707868
##	[50,]	2.04278542	0.035318059	1.77953272	4.377555361	2.328070897
##	[51,]	-1.07964876	0.117031363	3.74769107	3.262070474	0.111561711
##	[52,]	-0.91567443	0.289096573	2.77257627	5.029033964	1.543491891
##	[53,]	-0.88089862	2.421878720	2.72134040	-0.003626439	1.661683276
##	[54,]	1.60743697	5.017966136	2.25403828	1.515042677	1.211005358
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##	[65,]	1.98935502	0.446792535	0.24865632	3.383972299	3.159302423
##	[66,]	3.46877436	1.950973556	5.56421017	2.071286016	0.887640877
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##	[69,]	0.48942170	-0.528186274	0.25521751	0.133590141	3.035602452
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##	[71,]	3.68402002	3.019948963	2.40968329	-0.356211251	4.630243423
##	[72,]	1.17961745	1.892663425	-0.43004250	4.151400851	0.465933083
##	[73,]	0.67934736	3.348180090	3.60396681	0.447201157	3.352755068
##	[74,]	-1.27749805	1.051261697	-3.51456975	2.165622444	3.556397513
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##	[76,]	2.95238965	1.515931828	3.11213426	2.352465288	-0.477077143
##	[77,]	2.30734037	-0.343819941	2.09977172	2.802087937	4.761611559
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##	[84,]	0.28970534	0.091634982	2.20427911	-1.914448043	2.821885060
##	[85,]	1.88559320	2.911714580	1.71268819	2.262321444	2.981434947
##	[86,]	7.10504247	2.590300279	2.83305668	-1.495311178	1.232948745
##	[87,]	0.91658765	2.981059080	0.15692105	0.071473062	2.073545964
##	[88,]	3.62309680	1.399550122	-0.07692999	3.726451554	1.313589985
##	[89,]	-0.55273405	2.932384147	4.28159102	5.640492451	3.887930922
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##	[91,]	2.11419990	0.744260618	1.25951025	0.243721285	2.649187919
##	[92,]	0.27399405	5.039461443	2.26463255	4.044706276	2.500755155
##	[93,]	-0.09844401	-1.885320828	-0.56713699	4.035990553	-3.375157649
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##	[10,]	2.23373748	0.78752757	2.23313171	2.14714197	-0.81333602
##	[11,]	-1.19422791	4.09839376	3.39764140	3.99272374	4.25970852
##	[12,]	3.10023833	1.88736659	2.15513977	1.91976207	1.46767646
##	[13,]	-1.38904702	-1.23574056	5.58202610	3.65275560	0.91065142
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##	[15,]	3.56763820	1.10676247	-2.17542894	2.98055490	0.26711642
##	[16,]	2.12904440	0.89405432	2.41523035	-0.74308204	0.78391261
##	[17,]	2.73846008	-1.01009359	2.51137220	0.31503990	2.79672276
##	[18,]	1.05436820	0.02472993	1.98529060	-1.01455825	2.42242543
##	[19,]	1.82828685	0.32756129	2.92911566	1.50411196	2.37551071
##	[20,]	6.38306980	-0.87190341	1.18918701	5.50324995	4.40291469
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##	[22,]	3.17181196	1.85032729	1.05578725	4.95462111	1.81487623	4.20623269
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##	[56,]	3.01457547	6.31942401	2.27166607	2.26930633	-1.05406353	3.63902296
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##	[61,]	3.59736208	-0.64623053	3.61164484	1.22894166	2.75128789	7.14290403
##	[62,]	0.17803979	1.73450933	4.09507598	-0.20672819	2.21415744	2.78156989
##	[63,]	0.24490645	1.25336177	3.08284987	1.19586962	-1.07222635	5.24667085
##	[64,]	3.41354999	5.37768208	1.75808184	1.94343715	0.31008705	2.54866302
##	[65,]	4.35625774	0.71633612	0.36729858	-0.67130470	3.55828417	2.57218664
##	[66,]	2.97858112	1.84923387	2.19849703	0.93270445	4.64836269	5.47287245
##	[67,]	1.09535779	1.51269834	-0.10860015	0.01114351	1.36439502	0.38516753
##	[68,]	-2.07389253	1.44265559	0.09173172	1.81600941	3.98763347	1.85033034
##	[69,]	2.22611826	1.10237154	5.67314631	3.59169336	2.95624019	3.26996189
##	[70,]	1.54473332	0.72722433	4.65777025	4.30328668	2.15930729	1.83780883
##	[71,]	0.44799828	3.33069200	1.19834304	-3.40268167	0.80655548	4.55533716
##	[72,]	-0.88963491	3.48756294	3.82605919	-0.07013586	2.59861583	2.78723008
##	[73,]	1.01382165	3.25994651	1.68490616	2.98024312	-1.52892957	-2.67779418
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## [84,] 2.26253579 1.15321833 2.23167498 4.35394753 1.90930846 2.45832378
## [85,] 5.33453589 2.98549801 0.12545260 3.54966786 1.42789037 1.08256140
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## [5,] 3.622953603 2.43925585 0.82411867 0.536341658 4.857148366
## [6,] 2.522086814 0.54651498 1.05302255 1.803803218 0.165832180
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## [9,] 2.538020737 2.76997989 4.31696609 4.922152380 2.741580651
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##	[30,]	-0.633609882	1.35202557	0.73316101	4.711396520	3.841322124
##	[31,]	1.229703352	-2.00139210	0.94075811	2.859172247	-0.218039534
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##	[33,]	0.292131288	2.76868349	-0.31263800	-0.417597182	-1.133823517
##	[34,]	2.078924908	2.17435272	1.20383802	3.122374683	3.748132977
##	[35,]	-0.593583934	0.92411876	1.36097813	-0.805685054	2.680892689
##	[36,]	1.425804724	4.53384966	0.33368527	1.228549852	2.618946010
##	[37,]	1.841745847	-3.67889439	2.77794962	2.614788897	3.302303772
##	[38,]	1.018607628	-1.14438894	3.72255369	1.079524035	2.318605925
##	[39,]	-1.094804593	1.89259452	-0.16064026	2.943369597	-0.569828881
##	[40,]	-0.004659959	0.44691319	0.56478742	-2.939541137	1.969376140
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##	[42,]	-0.612724999	1.64919189	1.16256671	1.562726968	3.784595338
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##	[44,]	1.137080998	3.93684135	2.50042457	2.157381208	3.231620520
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##	[50,]	1.178719067	2.52023816	1.79217330	-1.264102784	-1.073497415
##	[51,]	1.115530710	1.14796861	6.07974752	-2.400512292	2.603528270
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##	[68,]	1.365046289	-0.06455325	-1.75916877	5.277454280	-0.547232020
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##	[70,]	-1.290312181	0.20025992	2.17618013	3.287065681	0.603447350
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##	[73,]	1.832818974	0.76522037	-2.17215541	-0.361575966	1.298217237
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##	[40,]	1.552462656	2.073828582	3.09588517	0.715669104	1.30398442
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##	[53,]	3.147050810	2.694264096	-1.63592290	3.100836626	0.41524327
##	[54,]	1.367085738	4.093288398	6.29910416	2.419733665	2.67401040
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##	[56,]	4.057686209	2.553397091	2.93142903	-2.311646975	1.56476083
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##	[58,]	0.686367024	1.601632741	2.99024266	0.637859017	4.12895469
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##	[62,]	2.755045063	1.913390716	3.30680971	1.641918052	3.76327875
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##	[64,]	3.324826247	2.974358115	1.32550981	5.716506650	1.36515048
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##	[67,]	0.616136120	2.518842164	2.48636236	3.264985297	2.58853712
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##	[73,]	2.264033040	0.227169839	4.69025305	1.188786165	3.42345332
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##	[75,]	6.167767941	0.625345922	1.79167895	5.046897271	-0.24043796
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##      [,422]      [,423]      [,424]      [,425]      [,426]      [,427]
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##      [2,] -2.5184560 -0.67832877 3.40391721 -0.72193385 1.12416011 3.34375953

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##	[3,]	0.8847644	1.55933433	4.95799729	0.12322981	2.10533256	3.62319991
##	[4,]	-0.7228114	-0.90908164	2.26107822	1.04840234	0.00844618	-1.69834849
##	[5,]	2.2897671	0.44843565	-0.03867647	3.47946925	0.42065826	0.84155632
##	[6,]	4.5693813	0.40326709	4.26459963	2.47536696	1.62846305	1.92103265
##	[7,]	0.2260153	2.58506099	-1.57606893	4.63902345	4.18644095	2.71064653
##	[8,]	4.0099350	-1.37189538	2.35040472	-1.61762306	3.23782750	0.37429694
##	[9,]	3.5627697	3.68068488	3.40027224	2.44199283	2.35400630	6.23366480
##	[10,]	3.2552744	-1.63440571	0.28775942	0.95217973	1.11232228	2.58031935
##	[11,]	3.7799779	0.73201574	0.75348014	-0.71984542	-1.20817177	3.10976560
##	[12,]	-0.9500464	3.37078949	0.94936436	1.86450708	1.18407035	-0.97410904
##	[13,]	0.8045887	0.86519453	6.66849794	2.16532990	-0.38340129	5.24196118
##	[14,]	5.1050422	1.37450014	1.72311065	0.93349506	2.87024407	2.15211434
##	[15,]	-2.1405596	1.00407097	3.02959153	2.61598304	1.74832767	2.41437937
##	[16,]	2.7183748	1.90696292	1.52912573	1.32930139	0.50270725	2.87739571
##	[17,]	2.3323713	1.99621343	-0.31821515	1.14297919	0.10700490	-0.20568215
##	[18,]	2.6474839	0.11423812	1.75316766	3.48376453	0.84155813	4.68197299
##	[19,]	1.3372200	2.50688175	-1.72515263	-1.04910134	-0.95078677	0.20791965
##	[20,]	4.0925695	4.79300790	0.15251344	3.69653630	1.86730314	0.37325714
##	[21,]	1.9968737	2.08765903	1.16699322	-0.91399626	1.16269264	1.51570800
##	[22,]	1.1629464	3.28025455	0.20740286	-0.93753231	1.21858393	1.06748582
##	[23,]	5.8019137	2.22497126	2.26430544	1.69129410	6.29544853	2.03744684
##	[24,]	3.9676102	3.52280647	2.30957647	3.29384765	1.85916164	-0.13866698
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##	[26,]	3.1706815	0.83229351	1.06826368	5.07115100	6.24751032	0.15333783
##	[27,]	0.2111658	5.24677927	2.66630088	5.78854287	4.13554442	0.12582909
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## [3,] 2.631121333 1.067373344 -0.84266971 3.350592899 1.416607346
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##	[10,]	0.844958972	2.899118991	3.62660038	5.239368057	1.886812735
##	[11,]	2.380144737	-0.987301503	1.09542328	3.152981539	0.500377704
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##	[13,]	1.082663472	0.021279272	2.07095861	3.403791912	-1.816315747
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##	[15,]	-1.691040048	3.077108862	1.86186163	0.813075844	-1.118028460
##	[16,]	4.984488927	4.434067824	-1.65838913	-0.784579567	1.726888544
##	[17,]	1.307731281	3.939231008	-1.86006940	2.631664897	2.553766792
##	[18,]	2.879932705	2.103241537	4.17533571	0.003752273	-0.719205155
##	[19,]	2.933041214	0.686472481	1.21255638	1.417846673	-0.712269790
##	[20,]	1.728221650	3.301797927	2.37612434	2.109714358	2.452821356
##	[21,]	3.373551968	0.261569766	5.95159259	2.465325427	3.179853854
##	[22,]	0.005562048	2.344330299	3.46248623	0.129624784	4.001427742
##	[23,]	0.878614206	-0.364406160	2.34326922	2.643221065	4.992295907
##	[24,]	-0.141004752	2.878312340	4.27026832	2.003420723	3.174184499
##	[25,]	4.927261208	0.980205272	2.05060524	1.940121677	0.245619332
##	[26,]	3.867479074	2.688897376	0.20947151	-0.386195416	-1.772851792
##	[27,]	0.132826211	3.185095172	0.20939648	2.851509526	0.121179814
##	[28,]	0.495277428	1.769201620	1.32981345	2.751948969	-0.373478283
##	[29,]	5.616642729	3.262026908	-1.96423158	1.465007678	2.719973639
##	[30,]	1.030489181	2.893017179	2.15640486	0.537856937	-0.492014588
##	[31,]	0.102383388	0.792078385	1.78225622	0.275346994	2.753954054
##	[32,]	-0.827447230	1.141354050	3.07259642	1.581171371	3.929125026
##	[33,]	2.537714533	4.100269897	2.95686918	-0.838688181	-1.320809717
##	[34,]	2.080322483	-1.801359730	1.44297327	2.474853382	1.217922748
##	[35,]	2.566615410	4.358544556	0.58713691	-1.291918563	3.561048487
##	[36,]	-1.084616494	2.283112852	0.82932038	2.136236889	4.621207554
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##	[16,]	0.22208349	0.63890351	-2.29909675	2.08289213	7.30432720	2.20079212
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##	[18,]	2.34839994	1.23191547	0.83032303	0.64900260	2.71238807	2.77908894
##	[19,]	0.75462704	-0.08343481	3.54550293	1.06702294	3.45471696	1.10812434
##	[20,]	3.91123721	0.29865831	2.30658766	-2.76785135	2.63595372	0.10577073
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## [52,] 4.57985916 3.59322129 2.79234656 3.12531844 3.44123670 1.10654377
## [53,] -0.41494264 4.16058524 -0.03896958 4.40941567 0.72886706 3.46307859
## [54,] 1.87392560 -1.21740782 1.87189253 1.82208164 1.83348480 0.99723670
## [55,] 0.61202648 3.55870406 -1.56417365 2.84604612 0.50075480 3.18543333
## [56,] 1.28607807 -0.87641587 0.15006556 4.36942704 1.65897747 3.60334590
## [57,] 1.32788495 0.61174394 0.80098115 5.00119038 2.19410691 3.12535129
## [58,] 4.97992489 2.54085395 3.48531616 -1.58721806 -1.42445011 0.50543065
## [59,] -3.55161260 2.97495645 2.33531692 3.50281507 1.49860312 4.91862064
## [60,] 3.27489310 1.10936412 4.27518647 2.04739480 1.28047075 0.28440563
## [61,] 3.46702279 2.87596051 1.18240751 2.52524611 -1.00838321 0.88140509
## [62,] 6.74665013 -2.41782729 -0.83440281 4.36341698 2.58156940 3.14758545
## [63,] 1.89148954 0.78058311 0.59348163 1.13877436 3.36558505 1.33910884
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## [75,] 5.35389421 -1.54626599 5.14206939 3.53122878 0.44164540 -0.25631014
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##      [,467]      [,468]      [,469]      [,470]      [,471]
## [1,] 0.8495754 1.87755578 1.248260e-02 1.781205491 1.25265396
## [2,] 2.7320394 2.52955706 7.453136e-01 1.897448971 -0.31311850
## [3,] -2.7815659 0.16942740 3.050328e+00 0.318017751 3.78569204
## [4,] 0.4756952 2.43550013 8.366383e-01 2.134820010 2.65719093

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## [5,] 3.8835294 1.11932867 3.822400e+00 5.296828542 2.42287741
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## [7,] -0.1706396 2.52614323 -1.628181e-01 -0.019384598 -0.66539741
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## [9,] 1.6126864 -1.63956068 5.642230e+00 0.201453463 2.03927260
## [10,] 3.1942588 2.88987879 2.016291e+00 2.099763098 1.66459118
## [11,] 2.0211777 -1.13519653 1.505686e+00 2.232479529 -0.83071672
## [12,] 2.2479688 4.06870742 9.984764e-01 1.711930334 3.92814856
## [13,] -0.4229170 2.26444817 -2.548979e+00 1.804957480 5.03925929
## [14,] 3.2524084 -1.59455385 2.670664e+00 4.036059539 -0.25447801
## [15,] 2.6180021 4.97890025 9.843084e-01 3.022130505 2.08825422
## [16,] 4.3689750 0.08659522 -2.668179e-02 3.234178248 0.99419637
## [17,] 1.3738711 3.36332112 -2.595915e-01 1.930352765 0.49412551
## [18,] 3.3808062 -0.06952486 4.546624e+00 2.552655581 0.12080742
## [19,] 4.4109914 0.73827750 9.800899e-01 0.186931715 3.84503516
## [20,] -1.8506017 -1.41113190 2.737977e+00 3.359806784 2.01362788
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## [59,] 0.3385881 4.37178894 3.740027e+00 1.955247149 1.33443170
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## [91,] -0.2734739 1.44676255 3.500761e+00 4.080026816 3.16816636
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## [96,] 1.6973477 2.18041234 2.097386e+00 5.730342630 0.04664636
## [97,] 2.3594845 0.31845169 2.559366e+00 1.292078526 3.42840074
## [98,] 4.0395426 -1.03781633 3.682010e-01 1.192790171 -1.35372531
## [99,] 1.2091946 1.65431080 2.797579e+00 3.304582476 1.47163774
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## [2,] 1.071467173 4.01581064 0.55792958 1.37380099 2.08406833 0.73841825
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## [6,] -0.543564295 -1.71746346 -1.73072935 1.61780600 1.27271755 3.41436494
## [7,] 0.144666916 -1.12712079 1.82016118 3.77876805 -0.19375001 -1.93961777
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## [9,] 4.530621078 3.13084686 2.72723276 2.72666314 2.68748832 4.60194157
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##	[12,]	3.257442008	2.90057992	2.56126847	2.84108266	0.53314764	2.94726288
##	[13,]	2.417346075	5.06289363	0.77098842	5.25437967	2.76523216	2.69536856
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##	[16,]	-1.323179945	1.79564955	0.92232830	2.53320023	1.92153445	2.24774827
##	[17,]	2.619149325	2.92513550	-0.12974334	1.51452043	3.13449353	2.24431779
##	[18,]	-1.501157890	1.31583636	3.73169776	2.09056309	3.10923633	0.02274825
##	[19,]	2.645259485	2.44468109	0.13421689	2.50037961	2.41178069	1.67593669
##	[20,]	2.989131547	2.09369390	2.88765840	-1.47378559	4.01491427	3.22796717
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##	[22,]	1.950826110	2.42430687	3.86573234	0.77540711	1.47847147	0.47236711
##	[23,]	1.495611399	3.77181009	-1.43520255	-0.38354428	2.09288972	2.65788915
##	[24,]	3.497015098	2.20752450	3.54840878	0.87046987	1.50918772	1.49840578
##	[25,]	2.133663836	2.87623344	0.73507620	2.62758989	-1.01910973	0.54551137
##	[26,]	0.096983863	1.24287113	1.83259974	1.86454914	0.13851631	2.12837810
##	[27,]	2.278264395	0.49187611	3.74020808	2.01316658	4.04714486	-2.32407309
##	[28,]	4.148074074	5.06196765	1.26608139	-2.55877087	0.24986004	1.23017667
##	[29,]	0.121137981	3.43564727	1.02116267	-0.07224476	0.05897772	1.06917362
##	[30,]	1.803699980	3.21398310	0.83967210	0.56324068	5.07329062	-0.77790371
##	[31,]	3.968079141	1.97330896	7.99215305	1.58195816	3.26198810	1.61088317
##	[32,]	2.546199882	0.09577245	1.11034467	2.14420176	-1.07675536	3.04153078
##	[33,]	2.457184908	1.44160283	0.15558620	0.37138633	2.65332845	2.01227903
##	[34,]	0.951652884	2.18242487	2.85702394	1.59666498	1.44558630	2.41564209
##	[35,]	2.836978172	0.49018359	2.69699771	4.65064076	2.53243003	-0.25289113
##	[36,]	-0.226991980	2.33757848	3.95003694	-0.72612526	-0.12271986	1.86728541
##	[37,]	1.420999024	2.71334156	0.01626262	1.24216888	3.60649021	2.32475216
##	[38,]	-0.409451552	5.08857418	0.03417590	2.91300562	3.64392880	-0.69027985
##	[39,]	1.994943389	1.96873746	-3.81284854	1.28564139	5.84470369	4.74376504
##	[40,]	-0.966966260	2.23629305	4.39207222	2.81316798	0.27004881	-0.18164932
##	[41,]	4.284246249	-0.70280215	2.30183196	3.40380059	4.66501731	3.18008188
##	[42,]	1.765350128	1.65975941	2.74844323	1.86758293	2.32966720	-1.14170219
##	[43,]	-0.478648855	4.66282213	1.70518555	-0.13663904	-1.65132433	5.39576265
##	[44,]	0.433951409	-0.13763727	2.22814136	2.01719941	1.71675472	3.86503110
##	[45,]	1.339907904	3.47796641	1.17108007	5.24010300	-0.82433896	-1.47858206
##	[46,]	-2.817722682	1.57864183	3.53962698	-0.77703146	3.43021060	2.76099833
##	[47,]	1.960514081	3.07348940	4.93035226	2.64419607	3.23807635	3.00601669
##	[48,]	3.376585946	4.19482114	-1.02197089	2.60983372	-1.00608184	4.12240844
##	[49,]	1.160400689	2.16175165	5.91958797	3.13978663	1.99718044	1.61340834
##	[50,]	2.966553910	1.41981117	-1.28637523	2.49328981	2.57991792	3.25390030
##	[51,]	0.224847847	2.92115116	3.85019933	0.60288418	1.36720008	2.73528327
##	[52,]	2.711877008	3.98757908	-1.24208550	1.47239277	1.16720338	0.34749118
##	[53,]	1.317828125	3.20131845	-0.89363633	0.86065297	-0.70510425	0.40002382
##	[54,]	4.568163158	1.03115980	0.65096998	2.29385737	1.69481179	1.63153778
##	[55,]	-0.664802802	4.94850120	4.66770958	3.31568415	0.45911712	-1.03748841
##	[56,]	2.561449491	3.95403069	0.22381543	-1.01231043	1.33442601	0.51890979
##	[57,]	2.642196468	3.74787978	2.03636710	2.08192192	1.01820418	5.23300330
##	[58,]	2.085822972	3.20845112	2.32300332	1.66898357	3.17137798	2.51162809
##	[59,]	3.765802219	3.59822842	4.63987811	2.04014191	-1.67954142	-0.94060851
##	[60,]	3.217225424	1.53036966	1.44763463	2.78858965	2.28701953	1.59188486
##	[61,]	0.362906815	0.64953737	3.26670769	1.74563657	3.05877868	4.61054959
##	[62,]	0.654497293	2.64859427	0.98459001	2.75189766	1.01187168	1.58977741
##	[63,]	1.197721358	2.98407406	2.33013491	3.24210290	1.71853609	2.47596727
##	[64,]	1.995489485	1.25901430	-1.75700780	1.16699887	-0.38078228	1.17729872
##	[65,]	0.920587879	1.94365557	0.97651078	0.98297213	3.13700388	1.03751915

##	[66,]	0.423691349	0.14808599	0.18476138	6.31294898	4.81928010	3.01679494
##	[67,]	1.162503187	0.97450574	3.09611383	1.75030319	2.84404742	4.94184452
##	[68,]	1.581120305	5.05787771	3.93863603	0.41783642	5.24876027	-0.25852598
##	[69,]	3.007755730	2.34433044	2.42736010	-3.87730316	4.31116455	1.35850368
##	[70,]	4.686009796	1.53754091	1.93637115	4.17934302	-2.00859249	3.72837687
##	[71,]	3.256959393	-1.15531319	3.38376086	5.29332482	1.52988586	-0.24660818
##	[72,]	1.410776640	3.42502039	0.03450291	1.12119070	5.45926006	2.09888564
##	[73,]	2.196221289	-0.21152537	1.55721039	1.25456221	3.97278984	-1.32557122
##	[74,]	4.370188348	0.94757910	-0.88094435	2.36285370	1.35617838	1.83404001
##	[75,]	3.464879336	0.43273984	3.24111611	-1.83451815	2.41259250	1.86819343
##	[76,]	2.466544178	7.08175318	1.73503235	-3.43117887	0.86326112	1.74180086
##	[77,]	1.730921986	0.38438997	0.67221708	-0.27406718	0.52396586	2.86513931
##	[78,]	2.838673647	0.23335782	-1.55300924	-1.02196833	2.26840003	1.06292454
##	[79,]	0.248314688	1.15550361	0.51884144	2.04575267	0.47480522	4.89549387
##	[80,]	-0.512951855	1.86648949	2.34033626	6.23198402	4.94083332	3.69485266
##	[81,]	-0.132651246	2.17919012	-0.55366858	2.30574252	1.78524557	1.56316910
##	[82,]	2.500675656	-0.20117401	2.04058436	1.34004390	5.76133894	1.41881848
##	[83,]	-0.602287314	3.86003999	1.49700190	4.02817282	-1.04740420	1.42507977
##	[84,]	1.543718454	-1.26055968	1.99771068	3.62191789	-2.11405487	0.79992170
##	[85,]	1.227149189	2.30497973	-1.39226880	0.29691820	0.03434913	1.98034986
##	[86,]	4.777796516	1.42749800	1.11374215	2.02083628	-1.70658105	7.89634855
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##	[88,]	0.887348148	1.43722546	2.34803869	0.19376341	-3.00778396	1.42491347
##	[89,]	5.230130249	2.34906154	4.51557630	0.53061382	2.36284864	2.85379684
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##	[99,]	0.082908357	4.08292353	1.90602868	4.23248870	-0.35231797	2.03536962
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##	[4,]	4.86205416	1.71616544	-0.86956720	1.43450391	1.09719699	6.21049693
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##	[76,]	4.38093302	2.91028734	2.77729455	2.71757234	2.43791478	-1.53911928
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##	[78,]	1.15979161	1.51496677	1.46302237	0.40973588	2.80392420	-0.88811557
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##	[81,]	2.57581656	2.14205820	-0.65426741	3.71462455	2.21210123	0.97688888
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##	[86,]	1.01169164	3.31264393	3.22798371	1.19745577	2.33748299	2.31170905
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##	[91,]	2.51803930	2.60637582	2.01040004	2.03310011	2.01581173	2.84791436
##	[92,]	0.20112544	1.48622094	0.37096440	1.01390328	3.31367335	2.07884947
##	[93,]	-1.91101354	-1.70419412	-0.70080259	3.91772409	-0.34533103	3.75006147
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##	[4,]	1.83771323	-0.13686270	-0.38705127	0.940696347	0.66725108	1.22029195
##	[5,]	1.46109336	4.43163441	1.77708930	0.343208451	1.28574164	2.08928650
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##	[10,]	-1.03471970	2.52703363	0.55446152	5.228333268	1.62525354	-0.11741976
##	[11,]	-1.15053522	5.43706439	4.41473580	6.487649962	-0.89095102	3.88316639
##	[12,]	2.78573786	0.99399814	2.09899312	4.222024897	-2.35522334	1.65120472
##	[13,]	1.56978592	1.31810519	3.34023126	2.365291131	1.12004031	0.73270231
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##	[15,]	1.06825327	0.77164620	0.64759711	2.731225742	3.69828670	0.45306467
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##	[24,]	3.77577392	3.00989926	0.93103518	2.854002144	4.69685005	-0.14959737
##	[25,]	0.21627127	2.95683222	2.93775539	1.097386977	1.99417539	3.36620894

##	[26,]	2.12856424	4.28551260	2.95713620	2.071974508	1.84186015	5.17681571
##	[27,]	2.35931090	1.61034768	0.77766604	-0.330812470	1.19373617	0.25306407
##	[28,]	4.12640124	0.71857507	5.26580287	4.316938141	0.54707143	-0.69009660
##	[29,]	2.38959245	1.48715884	0.07372687	-2.159628931	-0.48797460	4.17905494
##	[30,]	0.75199174	-0.79567997	-1.47119646	2.829559739	2.55045114	3.51044220
##	[31,]	3.31389429	1.48343110	1.08019318	3.817852714	1.79878855	4.01144486
##	[32,]	1.68998559	0.48854340	0.67605838	1.303443067	2.48341658	1.05384250
##	[33,]	2.44123245	1.92613278	2.04586559	0.385728119	1.50941935	4.48972742
##	[34,]	0.19798951	1.72182841	0.62787160	-0.848392480	1.58370489	-2.29210982
##	[35,]	0.88217447	1.66136172	1.34336991	2.606057094	1.56921358	0.56102783
##	[36,]	2.15871849	1.14364327	1.32587721	2.323370234	5.65646573	0.88047587
##	[37,]	1.40752965	4.09853861	1.88492290	5.993048865	3.09967869	7.61282309
##	[38,]	3.56851388	3.88308292	1.56036027	2.825311945	-0.12529189	2.85048383
##	[39,]	-2.45565110	1.37818223	0.54138835	-0.404459549	0.89583280	3.06536048
##	[40,]	2.80003895	1.66955555	0.79650299	2.459764197	2.27325627	-0.22696517
##	[41,]	3.29895792	1.85155605	-4.56951550	-0.356559671	-0.59775719	2.11126975
##	[42,]	1.08427242	4.26050732	0.07605424	-1.081752687	3.16466442	1.01008621
##	[43,]	0.25138031	4.17057500	5.20523783	-0.018985348	0.62993288	-1.00656451
##	[44,]	3.01451581	3.68908099	1.63595532	4.144239956	-0.97448501	3.73482427
##	[45,]	2.18595512	2.57772121	2.32345663	2.827216130	5.49297010	0.89418409
##	[46,]	3.97057639	2.36798174	0.41648151	0.966424019	3.03745332	1.57299239
##	[47,]	-4.15762992	4.55229047	1.61838220	0.488878073	3.09575872	1.46186318
##	[48,]	-0.28845934	-1.21250114	1.45576053	1.771968499	3.87205901	3.22300592
##	[49,]	2.97255761	1.20875839	0.68552521	2.579892628	3.36778804	3.00237992
##	[50,]	4.36622458	1.75825342	3.03773389	0.468725813	4.23386658	5.35348303
##	[51,]	3.14165824	-1.67309047	-0.11321779	1.370175395	-1.06880845	1.20492493
##	[52,]	3.24882961	1.87319594	2.92045608	-1.877538234	0.89528299	1.05167437
##	[53,]	0.73482764	-1.64647922	3.05171926	0.215569095	1.40697812	1.11791696
##	[54,]	1.87143135	-1.30100027	-1.79884477	-0.317567213	1.93212185	2.22256820
##	[55,]	2.14466233	6.32164805	1.37676480	-1.386828873	-0.53552835	3.75084904
##	[56,]	0.01069971	-1.06411318	3.65930418	0.116605643	0.30658298	-0.78163030
##	[57,]	1.09180264	2.02691698	1.70704089	3.141020376	1.42159620	0.30894435
##	[58,]	1.38650610	3.48064689	1.50958733	1.420411511	1.12927941	3.30960044
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##	[61,]	0.08246623	-1.87080091	4.11420830	4.666288007	-1.16048744	-0.84534523
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##	[64,]	4.16542699	0.90593941	-0.16084221	1.292352449	1.15988132	2.55826457
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##	[67,]	-0.30255361	3.66478296	1.33877681	2.786645402	2.19141989	3.83913936
##	[68,]	4.63483654	3.75358426	-0.59381685	3.528981752	2.19615818	-1.78065015
##	[69,]	5.01387590	3.65752843	2.95657455	1.343676427	3.99109319	0.78382921
##	[70,]	4.08206269	0.46630099	3.96151668	3.392987611	5.47771983	1.50285229
##	[71,]	2.97561693	5.39079644	-0.13999014	2.277766470	2.97205595	-0.65248630
##	[72,]	3.64102785	0.81542986	3.50348634	2.780534267	1.16386813	4.32740985
##	[73,]	1.67163523	3.44866375	5.17503492	0.607086869	-0.07432309	2.42022495
##	[74,]	0.45550684	1.30992134	-1.05367961	2.058453044	2.35152299	2.55473484
##	[75,]	-2.18046137	-1.88147152	0.63603977	5.755486190	-0.19313001	2.88597882
##	[76,]	1.67208714	2.59446686	0.80244422	4.060332837	2.95152346	0.35333683
##	[77,]	6.35809451	4.58138255	3.95353300	1.446079265	4.35978709	0.03633631
##	[78,]	4.69963315	-0.31367592	1.97855524	2.597831184	0.49863351	0.05094591
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## [100,] -0.25756323 2.24453205 1.88798115 4.205940762 0.61047945 0.42156957
##      [,490]      [,491]      [,492]      [,493]      [,494]
## [1,] 1.8412492217 0.947052518 1.53124081 3.6046117 1.85926704
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## [7,] 1.5420292768 4.198238464 0.90168249 2.2082991 -0.29822090
## [8,] 1.5953029954 2.984517468 3.33171077 -0.2830602 -0.53605449
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##	[33,]	2.6634669208	3.301062189	-1.36392380	0.5824140	6.55689811
##	[34,]	4.8216709208	6.391828988	1.40440457	0.1049591	2.46324425
##	[35,]	2.8194162010	0.533710497	3.87731058	5.2029652	1.85198695
##	[36,]	1.9025350034	1.817322966	2.64365712	0.9646742	0.90006045
##	[37,]	3.0584911566	4.223919405	1.62074130	1.8152992	2.75466385
##	[38,]	4.5172785814	2.907741953	2.39246225	-0.3369592	4.89432053
##	[39,]	4.2208832610	3.164843507	-0.65641866	3.6857924	4.50877468
##	[40,]	0.2714137200	4.514970055	2.84463424	0.8153080	1.27140164
##	[41,]	2.6640979936	2.071501224	3.99351556	1.1818831	4.11213419
##	[42,]	-0.4628317451	1.122423267	4.80112269	2.3419811	3.98396734
##	[43,]	2.2309926966	1.125584313	0.58961087	-1.2029101	-1.18935427
##	[44,]	3.9372237590	1.167509667	0.94113407	-1.3726218	6.73998339
##	[45,]	5.9135253016	1.144319544	3.14238172	4.3398020	2.63303976
##	[46,]	3.5557938130	-1.102115133	5.10513104	-0.4792773	0.01414499
##	[47,]	-0.7109673382	-0.557917573	0.99769029	2.6589579	2.75933183
##	[48,]	-1.1297811286	0.681104969	1.42117212	3.6013350	1.63628816
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##	[50,]	3.5379059862	2.513695694	3.32094173	-0.7862464	1.91957085
##	[51,]	2.2200398110	2.472985202	2.71825267	2.8031182	2.68743480
##	[52,]	2.3516108947	2.446934304	5.01425214	0.3901459	0.38534983
##	[53,]	2.6652033641	1.113690085	1.40517614	0.9690253	1.61458343
##	[54,]	3.8580088895	0.294912208	2.93921359	-0.3189457	1.73664334
##	[55,]	1.0050851297	4.301010285	0.02151920	-1.6350285	-0.04563883
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##	[58,]	2.6216129441	0.783871577	4.59816300	0.9189039	1.72439608
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##	[66,]	5.8186850753	-1.064253792	2.41782345	2.5358595	-0.51563271
##	[67,]	0.7299537907	3.738898799	-0.48712191	1.9188734	3.22795440
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##	[71,]	1.4586995972	0.536687556	2.84572944	2.4004335	0.59604319
##	[72,]	1.6016983268	1.443941732	-0.58810810	1.2805406	1.83004015
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##	[75,]	2.1903496643	3.634182582	1.99734587	2.5047854	-0.70858041
##	[76,]	2.8478197432	5.202957391	2.63483677	3.7249497	4.59667261
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##	[78,]	2.7922877342	4.183713957	1.53947829	0.4658337	1.33561385
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##	[92,]	1.8013893230	2.686546678	3.47514206	0.9391983	1.05230455
##	[93,]	3.2585988403	0.629152557	0.50236786	1.3610610	0.08723838
##	[94,]	0.1995923178	1.690979361	4.19031113	2.0689353	0.21598557
##	[95,]	-1.1784927889	0.961097455	0.68964791	1.3246771	0.19175731
##	[96,]	1.9791531640	4.718863873	0.04201881	0.3856608	3.58659634
##	[97,]	2.1183516243	1.997810265	5.01558050	-0.3607352	-0.70458105
##	[98,]	-0.4793347198	1.348445074	0.72216460	1.2466697	2.18115208
##	[99,]	-0.5907296620	-0.316184594	3.00090058	6.6014581	0.26400427
##	[100,]	2.4331309116	-2.775655923	0.47312673	-1.6977246	0.56920725
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##	[3,]	2.29591771	2.465114344	1.64495547	2.63523184	2.2999539
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##	[5,]	0.03279646	2.757458314	4.66897738	0.06664440	1.8675717
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##	[13,]	1.00288061	2.487309055	-0.67935937	-1.68307539	1.4891199
##	[14,]	3.02425013	0.133854160	5.09845105	0.28058897	-0.8477363
##	[15,]	0.90943743	2.440244092	2.66888597	1.24043259	2.9051408
##	[16,]	3.97681114	-2.231347987	0.22274418	2.96518644	4.1508527
##	[17,]	1.71792838	2.445938470	2.33168010	1.56462615	1.0059968
##	[18,]	0.07843510	-1.245227060	3.00149772	0.05312068	3.0085648
##	[19,]	0.59421324	3.371268858	0.99536270	1.89905973	1.0464043
##	[20,]	0.71262515	2.451505596	-2.31507082	2.21656053	2.6268240
##	[21,]	1.22350118	3.066329293	4.23342135	5.16070042	3.6809449
##	[22,]	5.28086706	3.379608334	2.93237189	1.18063800	-0.4234570
##	[23,]	2.15422812	-0.128284009	2.14155749	-1.97441668	2.3600702
##	[24,]	0.68036051	4.192073797	2.67560337	0.82798379	3.6614028
##	[25,]	0.19750823	2.257662454	1.08172473	2.61875041	2.8956119
##	[26,]	-0.75488664	6.354118355	-2.18456061	4.23084833	0.8323970
##	[27,]	-0.41450853	2.768081830	1.73894986	3.03482922	1.1077608
##	[28,]	3.03947387	3.767221469	3.44305728	4.84756775	-0.6460810
##	[29,]	2.73104252	3.192938110	1.81544038	-0.17958791	2.7349821
##	[30,]	2.60673710	-0.385371964	4.54800041	-2.45384639	1.6774322
##	[31,]	-0.54827807	1.201663861	4.29768663	-1.13676290	-0.2900486
##	[32,]	0.26516303	0.767660287	3.08210603	1.08690428	0.4993635
##	[33,]	3.01706243	-1.291139220	-1.04193399	3.99881154	1.9450358
##	[34,]	1.94530496	1.894700502	0.64079731	3.19940948	1.4837983
##	[35,]	1.88490977	0.692195978	1.87220504	0.04723308	1.6251127
##	[36,]	4.65632475	-1.941960856	2.20434295	6.79265395	2.1444930
##	[37,]	-0.75999655	0.949365857	0.90512287	-0.46816126	1.9988684
##	[38,]	2.21556964	2.745373103	0.61437124	0.38061039	4.3819910
##	[39,]	-0.52383076	0.708260364	0.14028726	2.52813409	2.9300008

##	[40,]	-1.76287864	3.651737467	1.99040188	0.67536731	0.3930017	1.55530861
##	[41,]	-0.60848567	4.831670046	1.26187644	3.19728881	6.0617676	1.42085112
##	[42,]	1.08121433	-1.786922800	2.51278474	1.70722508	0.8456054	5.00612805
##	[43,]	1.73338118	3.621519205	5.76956890	0.82885739	2.0973733	2.00785766
##	[44,]	4.87222510	3.058719912	0.42618688	-1.05515623	2.0024436	2.49431404
##	[45,]	0.55113043	0.268466568	1.33274166	3.94945052	3.0498539	0.44237515
##	[46,]	0.90418982	1.209263035	0.14245993	0.83712460	3.5299318	2.64271518
##	[47,]	4.68728416	-0.841709922	1.61939736	4.27150775	1.1393504	-2.83717948
##	[48,]	-1.78781815	3.265901315	1.24381560	1.63026814	5.0470909	4.15258590
##	[49,]	3.38249126	-0.403503295	-0.41499955	-1.53937362	4.7048342	-0.16489023
##	[50,]	2.73401121	2.987688674	2.70704187	0.12241684	0.2763343	1.85168534
##	[51,]	3.72191773	2.900287150	0.57728590	0.50753222	0.9740310	-0.79002516
##	[52,]	4.87148280	2.661827827	0.96907464	3.45195034	2.9407091	1.15903154
##	[53,]	2.16013782	3.037926394	5.77430129	2.65675053	0.8069457	7.56609858
##	[54,]	5.11400636	1.934871395	2.75230776	2.21673879	-0.2037490	1.07654695
##	[55,]	2.30862113	6.992305765	1.48609358	3.33499087	2.5540168	2.48990676
##	[56,]	-1.70374332	0.234686239	1.86320092	3.18463562	1.0477592	0.88052647
##	[57,]	3.33910684	2.945540221	4.10322580	-1.81188407	2.4535423	1.10871572
##	[58,]	1.02136616	-0.170097142	-3.00042340	1.75054651	0.9792951	0.90224106
##	[59,]	1.21159340	-1.996105301	0.78743265	4.56187198	2.5781550	2.22162772
##	[60,]	1.02802078	1.478968024	1.11688762	0.37791021	3.0117977	0.27290605
##	[61,]	1.17998673	2.415550228	4.23241675	-0.51577215	0.9418921	1.43656665
##	[62,]	2.47490143	2.704243447	-0.32834528	1.23249768	1.6677164	-1.33205296
##	[63,]	-0.26246291	2.480318239	2.72100270	1.48911896	0.5246664	2.58955388
##	[64,]	3.60410786	6.426527335	1.52265054	-1.26858934	1.9651788	1.55322719
##	[65,]	1.77938927	1.255265103	-1.13167947	1.66788832	0.7730403	0.78652037
##	[66,]	3.82251082	1.486685229	1.84559646	1.50780784	2.4476707	-0.22646504
##	[67,]	3.02136006	1.677992626	-1.61746733	3.01370488	2.7217897	5.06148051
##	[68,]	-0.23117872	0.374668782	3.29066378	-0.28882670	3.8822492	2.60312842
##	[69,]	0.37365496	0.069508599	0.75962738	1.79560878	-0.5310304	-0.19445814
##	[70,]	3.05673822	2.763938903	2.45602421	3.61203041	4.3763933	2.99951885
##	[71,]	1.77185653	1.923178337	2.87656936	3.27481630	2.4500576	1.64204423
##	[72,]	-1.43424867	3.325522020	-0.72359423	2.43568109	-0.2086996	2.14293741
##	[73,]	3.73378061	0.350526139	3.09031624	3.96901135	1.6548922	-0.12814124
##	[74,]	-0.55858652	1.129029167	2.57085350	3.58737836	-1.1229213	4.16310939
##	[75,]	0.89619558	0.097846258	0.68501557	2.11864332	6.3190461	3.80442998
##	[76,]	2.52788305	0.846747914	-0.33631617	1.19435521	6.1238402	1.33848082
##	[77,]	3.23990254	0.033694298	0.59927609	4.07387327	5.8483555	1.56806947
##	[78,]	-1.92881617	2.271850792	2.26649147	2.71142584	1.4717117	3.83024693
##	[79,]	-1.21236828	1.619177641	1.71112418	-0.41528463	1.1784198	0.10814340
##	[80,]	2.70693759	-0.716279577	5.10322891	-2.87037122	0.9835877	2.27408514
##	[81,]	1.94979604	4.371871146	2.58307558	-1.19737976	3.3364781	3.74407890
##	[82,]	0.57300885	0.406730696	1.89232515	-0.88370329	-0.4456851	2.20046933
##	[83,]	0.90673437	2.147539261	-1.94532027	0.03074965	3.5130455	-0.37453898
##	[84,]	4.03874854	2.641069380	1.94980002	2.93933101	3.1871716	2.42294649
##	[85,]	-0.37192014	1.714728316	2.35486264	1.61675963	0.4521762	0.34921956
##	[86,]	1.71424838	-0.682134750	0.74562443	3.11292334	-3.9681623	2.21683311
##	[87,]	0.76315758	2.707306188	1.29928128	2.19923231	5.4653708	-0.19416913
##	[88,]	1.03975488	1.024980919	4.01432849	3.10147138	-0.6341294	3.61883362
##	[89,]	0.03739070	5.636914158	-1.28172209	1.99851161	0.4304494	3.31758545
##	[90,]	0.46344616	1.405113821	2.43359391	2.75951335	3.0153886	4.03861968
##	[91,]	2.98294921	7.329799014	2.17841848	0.91649024	0.1237627	2.57445223
##	[92,]	0.65912858	0.004501577	2.03354929	-0.20224466	2.4036524	0.22896229
##	[93,]	-0.05445126	4.664599021	1.14981772	2.83331589	0.6904409	2.87500240


```
## [94,] 0.96561266 4.251714805 3.73901500 0.83907412 2.8006309 0.91522982
## [95,] 3.22794551 3.289939465 -0.83382522 3.67725769 2.3748241 4.29665487
## [96,] 3.18101966 2.188998617 1.04859280 3.15820503 2.2655054 1.97304053
## [97,] 1.58977921 2.741778454 2.97996119 2.70077747 2.5171120 1.34909565
## [98,] 5.81372717 -0.414662660 0.38003371 -2.62209630 0.2028171 -1.91650350
## [99,] -0.09641167 2.265636894 0.83093658 2.11376208 3.8792196 -1.92485289
## [100,] 0.54826709 3.420871199 2.79262108 1.37753913 3.4045122 3.08492968
```

```
#sample mean is mm estimate of mu
```

```
sample_means <- colMeans(simulations)
```

```
#sample sd is the mm estimate of sigma [generated using the apply() function using the base r variance]
```

```
sample_sd <- apply(X = simulations, MARGIN = 2, FUN=sd)
```

```
sample_means
```

```
## [1] 1.640768 1.821476 1.698526 1.744063 1.838122 1.617355 1.987735 1.923347
## [9] 1.736321 2.021159 1.935920 1.404502 1.816427 2.093599 1.757439 1.832137
## [17] 1.853085 1.791814 1.905577 1.823331 2.169806 1.668631 1.733491 1.706993
## [25] 1.588021 1.505825 1.566160 2.330682 1.760536 2.229402 2.190558 1.566086
## [33] 1.939969 1.808205 1.905783 1.508531 1.611120 2.055294 1.511073 2.078360
## [41] 1.774617 1.487089 2.067452 1.739441 1.940438 1.455909 1.925926 1.807212
## [49] 1.586433 1.803277 1.933376 1.803212 1.561194 1.777864 2.117541 1.808728
## [57] 1.903703 2.008537 1.951860 1.730826 1.691346 2.074931 1.959466 1.596035
## [65] 1.315418 1.613658 1.734321 1.896000 1.690748 1.681125 1.924662 1.982839
## [73] 1.721297 2.022137 2.251353 1.575843 1.937780 1.585513 1.318811 2.019044
## [81] 2.077834 1.670318 2.176534 1.783661 1.573364 1.665656 1.816936 1.834104
## [89] 1.920023 1.706538 1.842320 1.515359 2.008331 2.109794 1.979020 1.441831
## [97] 1.379205 1.533838 1.991735 1.830546 1.976814 2.077119 2.069646 1.663595
## [105] 1.711967 1.642091 1.617142 1.828518 1.896466 1.989515 1.812224 1.985700
## [113] 1.757898 1.550598 1.907025 1.588809 1.651883 1.735999 2.126195 1.660920
## [121] 1.948451 1.510282 1.493037 2.053434 2.003529 1.827304 1.709728 1.556465
## [129] 1.912353 1.629209 1.785774 1.423282 1.697689 1.535691 1.925491 1.949620
## [137] 1.569572 1.798458 1.586888 2.024381 1.941302 1.295845 2.191098 1.503135
## [145] 1.885197 1.952548 1.830875 2.036026 1.377364 1.678705 1.793571 1.797430
## [153] 1.866564 1.758244 1.722034 1.861055 1.421234 1.956393 2.122268 1.718492
## [161] 1.629218 1.732246 1.917520 1.360976 1.639814 1.909087 1.576024 1.708519
## [169] 1.699248 1.829344 1.457112 1.948852 1.927139 1.761594 1.944556 2.001141
## [177] 1.624476 1.855720 2.010238 1.588520 1.843358 1.341354 1.713945 1.544613
## [185] 1.678838 1.599192 1.844189 1.449006 1.699617 1.489360 1.570409 2.015846
## [193] 1.532892 1.933339 1.533301 1.789079 1.454295 1.701007 2.022363 1.599798
## [201] 1.886818 2.019166 1.737071 1.712347 1.799036 1.966746 1.786832 2.022123
## [209] 1.429064 1.504368 1.861857 2.091855 2.052124 1.954661 1.634500 1.912340
## [217] 1.810974 1.935414 1.637979 2.056594 1.817030 1.489499 1.626204 1.631355
## [225] 1.535376 2.015898 1.660219 1.010524 1.674441 1.715457 1.894459 1.301029
## [233] 1.994967 1.968588 1.505513 1.912491 1.953699 1.971450 1.752803 1.843410
## [241] 1.855468 1.936463 1.683458 2.053222 1.771723 1.942390 2.057053 1.733797
## [249] 1.661370 1.869119 1.780546 2.058246 2.232970 2.033406 1.760390 1.683234
## [257] 1.829768 1.453001 1.504671 1.764627 1.764152 2.087263 1.877027 1.943977
## [265] 1.802817 1.672746 2.001136 1.994413 1.943290 1.881042 1.582599 1.655614
## [273] 1.918631 1.940052 1.376842 1.832248 1.767647 1.840191 1.898021 1.511256
## [281] 1.900494 1.709707 1.732068 1.479000 1.860986 1.541918 1.416895 2.040285
## [289] 1.763041 1.837906 1.769843 1.847952 1.954623 2.011587 1.790304 1.958957
## [297] 2.007981 1.754306 1.587469 1.863142 1.692714 2.034318 1.527195 1.856443
## [305] 1.404691 1.641066 1.710945 2.004575 1.769567 1.714499 1.732019 1.878241
## [313] 1.682235 1.754225 1.793328 1.685488 1.617551 1.836247 2.164067 1.821843
```

```

## [321] 2.021118 1.625632 1.707279 1.953560 1.639844 1.546497 1.714026 1.397538
## [329] 1.662770 1.893422 1.606178 1.562072 1.553470 1.450443 1.604786 1.687139
## [337] 1.820346 1.710196 1.464010 1.800883 1.882324 1.776243 1.878262 1.484300
## [345] 1.933575 1.880207 1.874542 2.019274 2.088704 1.720871 1.776256 1.775864
## [353] 1.810580 1.638522 1.850371 1.577097 2.020624 1.813159 1.646961 1.917841
## [361] 1.573397 1.865905 2.128603 1.861490 1.770989 1.659923 1.996228 1.520612
## [369] 2.015831 1.883499 1.744692 1.830820 1.587958 1.858127 2.213102 1.671561
## [377] 1.774133 1.909996 1.738063 1.852052 1.892956 1.662920 1.578520 1.774698
## [385] 1.887773 1.796035 1.937503 1.646464 1.595336 2.007448 1.510713 1.952067
## [393] 2.078172 1.785836 1.762895 1.691103 1.864317 1.443637 1.594817 1.993632
## [401] 1.323936 1.571576 2.010241 1.723138 1.824996 2.035084 2.070626 1.785885
## [409] 1.831858 1.450979 1.683213 1.847514 1.863747 1.951299 1.936728 2.224471
## [417] 2.062205 1.883839 1.650238 2.141830 1.525615 1.994812 1.773179 1.965348
## [425] 1.605027 1.747813 1.649300 1.633545 1.963844 1.772544 2.044639 1.219162
## [433] 1.567699 1.592445 1.594229 1.439364 1.483029 1.647142 2.037458 2.027295
## [441] 2.040938 1.613810 1.790791 1.555993 1.797021 1.630927 1.657872 1.674597
## [449] 1.932188 1.489841 1.719126 1.575413 1.668058 1.622524 1.812632 1.423823
## [457] 1.869550 1.563007 2.330354 1.672203 1.587468 1.600047 1.657357 1.516724
## [465] 1.890849 1.854259 1.759275 1.694368 1.666912 1.802381 1.691689 1.706720
## [473] 2.207429 1.640976 1.833762 1.743929 1.925341 1.679290 1.697804 1.790193
## [481] 1.747331 1.857934 1.833562 1.999345 1.781003 1.688084 1.680184 1.749823
## [489] 2.010532 1.880299 1.999060 1.813629 1.721057 1.716208 1.612569 1.931238
## [497] 1.749306 1.495960 1.964547 1.874930

```

sample_sd

```

## [1] 2.111171 1.893017 2.023347 1.937942 1.973106 2.036546 1.594980 2.145283
## [9] 1.783852 1.963400 2.115706 1.746542 1.850378 1.676848 1.719998 2.044929
## [17] 1.706445 1.982486 2.099722 1.771560 1.801622 1.912791 2.143675 1.743238
## [25] 1.886719 2.042685 1.968315 1.917511 1.916733 1.973569 1.867671 1.853211
## [33] 1.932713 1.711012 1.655624 1.853840 1.907999 1.850843 1.785839 2.085325
## [41] 1.901704 2.006458 2.160162 1.942752 1.794717 2.155708 1.982050 1.858165
## [49] 1.994689 2.016385 1.883606 2.044482 1.820397 1.677953 1.878169 1.859181
## [57] 1.716847 1.756838 2.163223 1.813600 1.846711 1.912078 1.711411 1.871929
## [65] 1.795446 1.663099 1.874471 1.896787 2.004297 2.136596 1.967538 1.993748
## [73] 2.154643 1.855096 1.908573 1.689576 1.766911 1.891447 1.711100 1.716978
## [81] 1.735997 1.933788 1.879822 2.036289 1.544377 1.840384 1.673920 1.914212
## [89] 1.965082 1.916275 2.142275 1.913888 2.123557 2.075699 1.904913 2.031048
## [97] 1.910717 1.941626 1.738530 1.983519 1.929861 1.822771 2.111161 2.267754
## [105] 2.074494 1.870149 1.977546 1.972086 2.107821 1.996951 2.017028 1.784741
## [113] 1.907335 1.809190 1.869486 1.991508 1.778911 1.924416 1.881079 1.790387
## [121] 1.805597 1.950601 2.106095 1.833765 1.849610 1.773474 1.787891 1.997305
## [129] 1.958121 2.067497 2.036724 1.709836 1.947677 1.950030 1.918100 1.853169
## [137] 1.901077 1.870794 1.806244 1.901992 1.672472 2.075878 1.763652 1.745850
## [145] 1.990763 1.941394 1.814788 1.834990 1.715582 1.888273 1.821786 1.943780
## [153] 2.002911 1.825061 1.876960 1.899180 1.893777 1.646802 1.784647 1.769957
## [161] 2.082087 1.809600 1.819162 1.893817 1.856173 1.670969 2.040957 1.710335
## [169] 1.856899 1.892026 2.100354 1.868099 1.889126 1.818877 1.611097 1.823355
## [177] 1.907514 1.747414 1.807470 1.942700 1.825469 1.939505 1.937612 2.109725
## [185] 1.875916 1.893252 1.934757 1.833843 1.844127 1.983981 1.949363 2.022599
## [193] 1.948268 1.786075 2.115934 1.792485 1.769246 1.819207 1.898823 1.670050
## [201] 1.999550 2.031258 1.877226 2.011532 1.988066 2.200334 2.150094 2.038780
## [209] 1.792008 1.845906 1.750520 2.010163 1.812552 1.832281 1.875185 1.714705
## [217] 2.033032 1.922340 1.955162 1.886757 1.754830 1.827580 1.914755 2.018696

```

```

## [225] 1.908577 1.943229 1.966332 1.709245 2.130516 1.775682 2.273863 1.735590
## [233] 1.867109 2.083055 1.767142 1.861618 1.596343 1.916471 1.812838 1.988136
## [241] 1.969802 1.909472 1.778888 1.825794 1.806486 1.628990 1.986786 2.031059
## [249] 1.961273 1.802362 1.936723 2.009452 1.664337 1.900171 1.993371 2.053484
## [257] 1.592158 2.011897 1.865445 1.935551 1.756794 1.803839 1.687670 1.902238
## [265] 2.004083 1.881188 1.793232 2.009463 1.826204 1.989131 2.110289 1.869192
## [273] 1.888647 1.894053 2.037672 1.762864 1.699487 1.954454 1.884380 1.990083
## [281] 1.868315 2.041860 2.007657 1.859476 1.763142 1.826304 1.825560 1.862758
## [289] 1.776556 2.069312 1.742308 2.242229 2.024906 2.046146 1.883157 1.817910
## [297] 1.820759 2.009435 2.012533 1.874339 1.986552 1.896934 1.893615 1.972515
## [305] 1.844684 1.952526 2.075298 2.101304 1.745716 1.924595 2.143677 1.857981
## [313] 2.104700 1.993232 2.140245 1.877682 1.698938 1.907113 1.838817 2.055922
## [321] 2.003934 1.835844 1.778034 1.877770 1.767678 1.744048 1.892579 1.987085
## [329] 1.917384 1.885252 1.712925 1.968896 1.833744 1.887811 2.052987 1.913376
## [337] 1.951384 1.921872 1.838754 1.997658 2.001138 1.839969 1.698542 1.714904
## [345] 1.841821 1.932979 1.788852 1.786421 1.864046 1.721995 1.726229 1.897499
## [353] 2.048471 1.590962 1.901655 1.759036 1.892891 1.717071 1.758604 1.868344
## [361] 1.955780 1.884344 1.803306 1.765967 1.939140 1.754996 1.985944 2.134860
## [369] 1.875009 2.002065 1.888217 1.794230 1.952955 1.918330 1.914953 1.788522
## [377] 1.880318 1.918468 2.046554 2.161971 1.702154 1.857665 2.024199 1.697234
## [385] 1.922555 1.933941 1.920679 1.734520 1.936669 1.873568 2.053345 1.783105
## [393] 1.965681 1.918789 1.845345 1.861606 1.977444 1.723541 2.005065 1.881524
## [401] 1.870299 1.896384 2.030383 1.828779 2.089180 1.852769 1.923642 2.113609
## [409] 1.760455 1.953836 1.630552 1.739982 1.753993 2.154229 1.919521 1.856971
## [417] 2.013053 1.985007 1.980591 1.959701 1.886894 2.192700 1.943399 2.088155
## [425] 1.906806 2.067367 1.736997 2.110919 1.879228 1.790269 1.811829 1.984859
## [433] 1.939433 1.805054 1.842403 2.263409 1.951645 2.005441 1.941729 1.909806
## [441] 1.677992 2.039993 2.279498 2.061108 1.889861 1.764261 1.989407 1.530245
## [449] 1.845903 1.832610 1.825111 2.031899 2.016583 1.965911 2.024217 1.907969
## [457] 1.967747 2.072064 1.954778 2.189800 1.950034 1.958384 1.863613 2.008408
## [465] 2.040453 1.951399 1.904418 1.708358 1.572776 1.827423 1.744356 1.704810
## [473] 1.748814 2.062911 1.938936 1.872392 1.808282 1.805054 1.929604 1.974902
## [481] 2.042200 1.858912 2.140453 1.921810 1.906257 1.801845 1.940725 1.748113
## [489] 1.864688 1.833641 1.719921 1.843760 1.868698 2.036767 1.843106 1.934341
## [497] 1.813335 2.065714 1.799994 1.898570

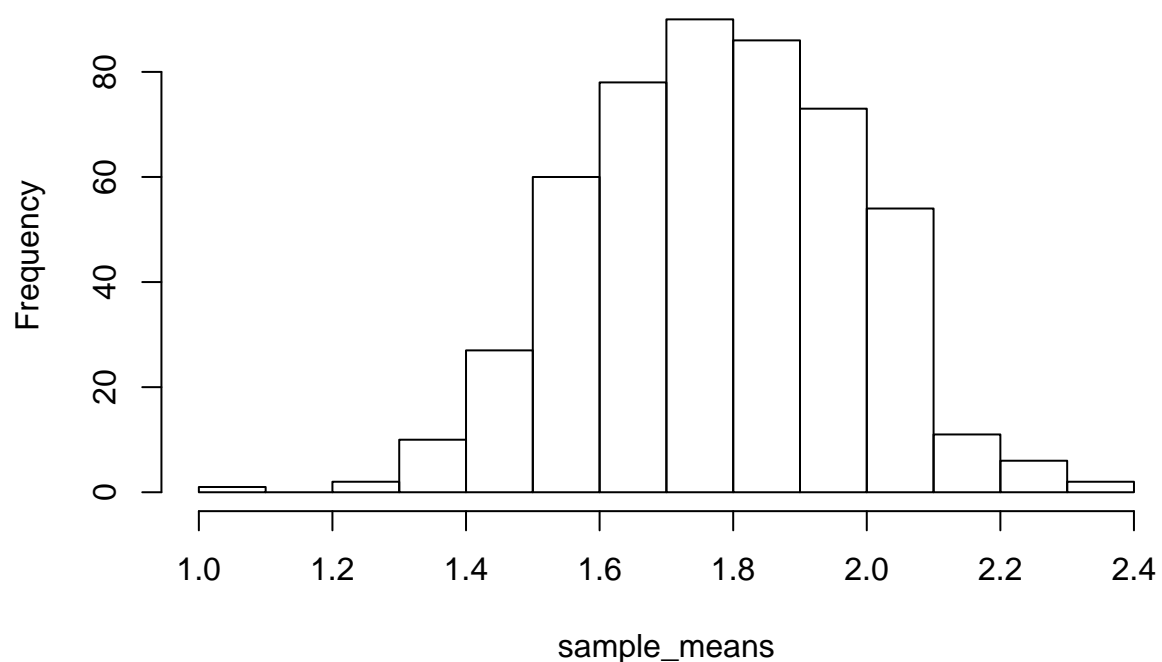
```

```

#histogram of sample means [for mu hat mm]
hist(sample_means)

```

Histogram of sample_means



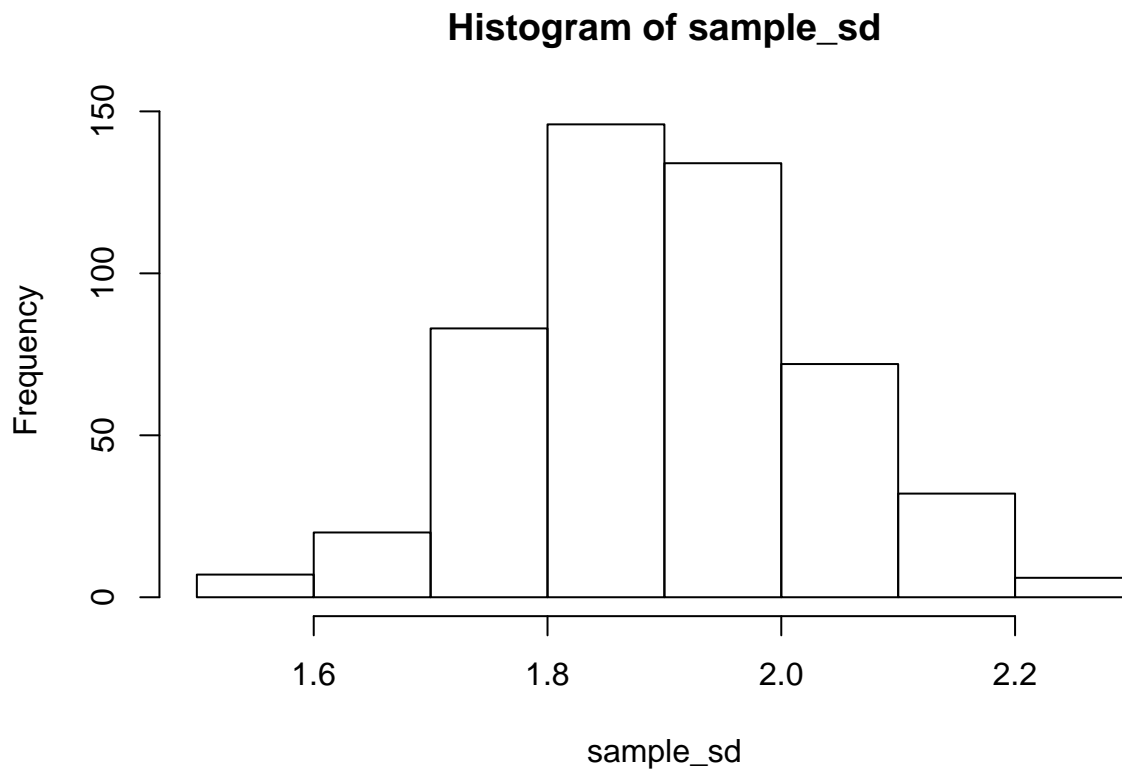
```
#statistics for mu mm such as mean and standard error
mu_sample_mean <- mean(sample_means)
se_sample_mean <- sqrt(var(sample_means))
mu_sample_mean
```

```
## [1] 1.778464
```

```
se_sample_mean #this is se(mu hat mm)
```

```
## [1] 0.1995415
```

```
#histogram of sample sd's [for sigma hat mm]
hist(sample_sd)
```



```
mu_sample_sd <- mean(sample_sd)
se_sample_sd <- sqrt(var(sample_sd))
mu_sample_sd
```

```
## [1] 1.899765
```

```
se_sample_sd
```

```
## [1] 0.130177
```

```
sample_means <- data.frame(sample_means)
sample_sd <- data.frame(sample_sd)
```

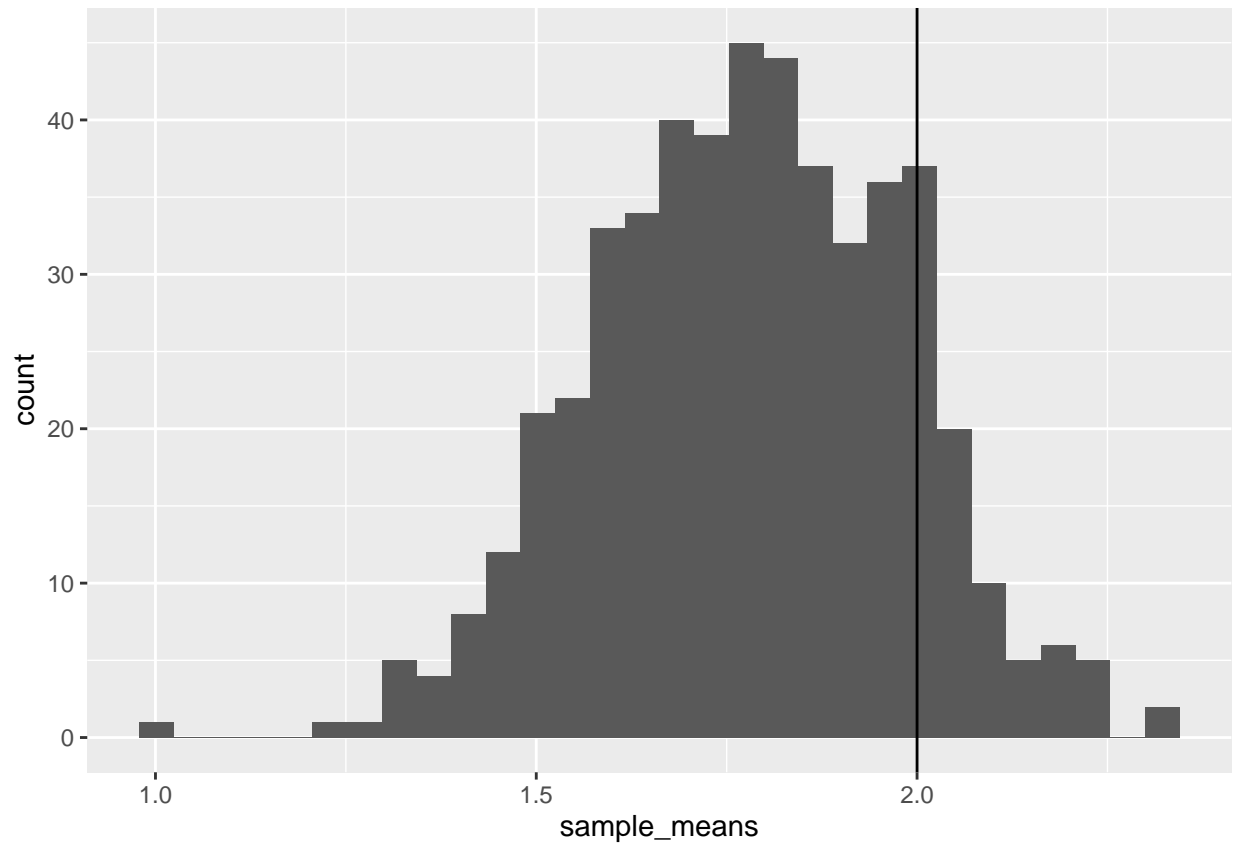
```
##(3) (c)
#true values of mu and sigma are 2 and 2. Re-plotting histograms with true values
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 3.6.3
```

```
mu_hist <- ggplot(sample_means, aes(x=sample_means)) + geom_histogram() + geom_vline(aes(xintercept = 2))
sd_hist <- ggplot(sample_sd, aes(x=sample_sd)) + geom_histogram() + geom_vline(aes(xintercept = 2))
```

```
mu_hist
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



```
sd_hist
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

