draft.R

harsh

Sun Aug 06 22:31:36 2017

#Clearing the Environment Memory  
remove(list =ls())  
#Importing the data Set  
SD=read.csv("C:/Users/harsh/Downloads/Species\_data.csv")  
#EDA  
summary(SD)

## entrez symbol S1   
## Min. : 11287 Gm8297 : 3 Min. : 4.403   
## 1st Qu.: 50790 LOC100861615 : 3 1st Qu.: 4.403   
## Median : 75828 1-Mar : 2 Median : 4.721   
## Mean : 6521874 1700106J16Rik: 2 Mean : 5.611   
## 3rd Qu.: 245276 2-Mar : 2 3rd Qu.: 6.510   
## Max. :105247288 4-Sep : 2 Max. :17.088   
## (Other) :22397   
## S2 S3 S4 S5   
## Min. : 4.403 Min. : 4.403 Min. : 4.403 Min. : 4.403   
## 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403   
## Median : 4.755 Median : 4.759 Median : 4.701 Median : 4.734   
## Mean : 5.619 Mean : 5.606 Mean : 5.644 Mean : 5.627   
## 3rd Qu.: 6.506 3rd Qu.: 6.517 3rd Qu.: 6.520 3rd Qu.: 6.547   
## Max. :16.464 Max. :16.356 Max. :17.250 Max. :15.996   
##   
## S6 S7 S8 S9   
## Min. : 4.403 Min. : 4.403 Min. : 4.403 Min. : 4.403   
## 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403   
## Median : 4.744 Median : 4.687 Median : 4.710 Median : 4.677   
## Mean : 5.650 Mean : 5.642 Mean : 5.647 Mean : 5.649   
## 3rd Qu.: 6.523 3rd Qu.: 6.563 3rd Qu.: 6.530 3rd Qu.: 6.510   
## Max. :15.881 Max. :15.983 Max. :16.278 Max. :16.200   
##   
## S10 S11 S12 S13   
## Min. : 4.403 Min. : 4.403 Min. : 4.403 Min. : 4.403   
## 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403   
## Median : 4.696 Median : 4.707 Median : 4.722 Median : 4.403   
## Mean : 5.645 Mean : 5.652 Mean : 5.660 Mean : 5.625   
## 3rd Qu.: 6.432 3rd Qu.: 6.448 3rd Qu.: 6.443 3rd Qu.: 6.392   
## Max. :16.455 Max. :16.506 Max. :17.112 Max. :16.834   
##   
## S14 S15 S16 S17   
## Min. : 4.403 Min. : 4.403 Min. : 4.403 Min. : 4.403   
## 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403   
## Median : 4.403 Median : 4.403 Median : 4.403 Median : 4.403   
## Mean : 5.617 Mean : 5.631 Mean : 5.623 Mean : 5.629   
## 3rd Qu.: 6.389 3rd Qu.: 6.364 3rd Qu.: 6.408 3rd Qu.: 6.402   
## Max. :17.195 Max. :17.010 Max. :17.231 Max. :16.902   
##   
## S18 S19 S20 S21   
## Min. : 4.403 Min. : 4.403 Min. : 4.403 Min. : 4.403   
## 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403   
## Median : 4.757 Median : 4.403 Median : 4.716 Median : 4.403   
## Mean : 5.643 Mean : 5.612 Mean : 5.632 Mean : 5.616   
## 3rd Qu.: 6.402 3rd Qu.: 6.419 3rd Qu.: 6.428 3rd Qu.: 6.421   
## Max. :16.505 Max. :17.218 Max. :16.838 Max. :17.272   
##   
## S22 S23 S24 S25   
## Min. : 4.403 Min. : 4.403 Min. : 4.403 Min. : 4.403   
## 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403   
## Median : 4.403 Median : 4.403 Median : 4.691 Median : 4.403   
## Mean : 5.600 Mean : 5.612 Mean : 5.628 Mean : 5.616   
## 3rd Qu.: 6.440 3rd Qu.: 6.397 3rd Qu.: 6.432 3rd Qu.: 6.455   
## Max. :17.100 Max. :16.766 Max. :16.574 Max. :17.075   
##   
## S26 S27 S28 S29   
## Min. : 4.403 Min. : 4.403 Min. : 4.403 Min. : 4.403   
## 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403 1st Qu.: 4.403   
## Median : 4.718 Median : 4.707 Median : 4.724 Median : 4.741   
## Mean : 5.624 Mean : 5.625 Mean : 5.639 Mean : 5.625   
## 3rd Qu.: 6.456 3rd Qu.: 6.444 3rd Qu.: 6.455 3rd Qu.: 6.459   
## Max. :16.803 Max. :16.849 Max. :17.447 Max. :17.492   
##   
## S30   
## Min. : 4.403   
## 1st Qu.: 4.403   
## Median : 4.720   
## Mean : 5.630   
## 3rd Qu.: 6.434   
## Max. :17.058   
##

str(SD)

## 'data.frame': 22411 obs. of 32 variables:  
## $ entrez: int 14679 54192 12544 107815 11818 67608 12390 23849 29871 12858 ...  
## $ symbol: Factor w/ 22329 levels "0610005C13Rik",..: 8579 14975 3791 17476 2168 12901 3405 10347 17475 4549 ...  
## $ S1 : num 7.99 4.4 5.34 4.72 4.4 ...  
## $ S2 : num 8.65 4.4 5.62 5.13 4.4 ...  
## $ S3 : num 7.85 4.4 5.89 5.02 4.4 ...  
## $ S4 : num 9.43 4.4 5.53 5.13 4.4 ...  
## $ S5 : num 8.48 4.4 5.95 5.14 4.4 ...  
## $ S6 : num 8.43 4.4 5.8 5.08 4.4 ...  
## $ S7 : num 8.79 4.4 5.75 4.8 4.4 ...  
## $ S8 : num 8.23 4.4 5.76 4.4 4.4 ...  
## $ S9 : num 8.61 4.4 6.19 5.01 4.4 ...  
## $ S10 : num 8.75 4.4 5.68 4.91 4.4 ...  
## $ S11 : num 8.81 4.4 5.62 4.93 4.4 ...  
## $ S12 : num 8.99 4.4 6.09 4.79 4.4 ...  
## $ S13 : num 9.33 4.4 5.13 4.4 4.4 ...  
## $ S14 : num 9.29 4.4 5.27 4.91 4.4 ...  
## $ S15 : num 8.86 4.4 5.3 4.78 4.4 ...  
## $ S16 : num 8.61 4.4 5.31 4.4 4.4 ...  
## $ S17 : num 8.54 4.4 4.76 4.4 4.4 ...  
## $ S18 : num 9.09 4.4 4.9 4.4 4.4 ...  
## $ S19 : num 9.52 4.4 4.84 4.4 4.4 ...  
## $ S20 : num 8.74 4.4 4.94 4.4 4.4 ...  
## $ S21 : num 8.99 4.4 5.07 4.4 4.4 ...  
## $ S22 : num 8.86 4.4 5.2 4.4 4.4 ...  
## $ S23 : num 8.7 4.4 5.21 4.4 4.4 ...  
## $ S24 : num 8.21 4.4 5.16 4.4 4.4 ...  
## $ S25 : num 8.93 4.4 4.77 4.4 4.4 ...  
## $ S26 : num 8.52 4.4 5.03 4.4 4.4 ...  
## $ S27 : num 8.26 4.4 5.39 4.4 4.4 ...  
## $ S28 : num 8.44 4.4 5.01 4.4 4.4 ...  
## $ S29 : num 8.68 4.4 5.37 4.4 4.4 ...  
## $ S30 : num 8.15 4.4 5.03 4.4 4.4 ...

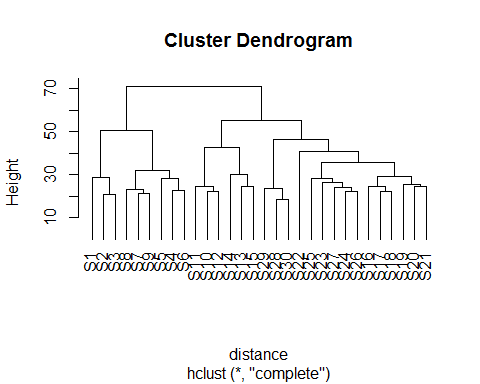
dim(SD)

## [1] 22411 32

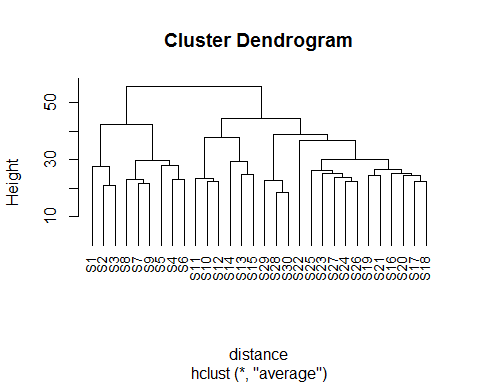
#missing Value  
sum(is.na(SD))

## [1] 0

#Removing the Duplicates  
Rmdentrez= SD[!duplicated(SD$entrez),]  
Rmdsymbol= Rmdentrez[!duplicated(Rmdentrez$symbol),]  
  
#Removing the entrez and symbols since they are unique ids  
SD\_Cont\_data=subset(Rmdsymbol, select = -c(entrez,symbol))  
set.seed(111)  
#normalizing the data using mean and SD  
m=apply(SD\_Cont\_data,2,mean)  
s=apply(SD\_Cont\_data,2,sd)  
NormalizeSD=scale(SD\_Cont\_data,m,s)  
  
#Transpose is required for clustering the data  
TransposeSD=t(NormalizeSD)  
  
#cacluating Euclidean distance  
distance=dist(TransposeSD)  
  
#Cluster Dendrogram with complete Linkage  
hc.c=hclust(distance)  
plot(hc.c,hang = -1)



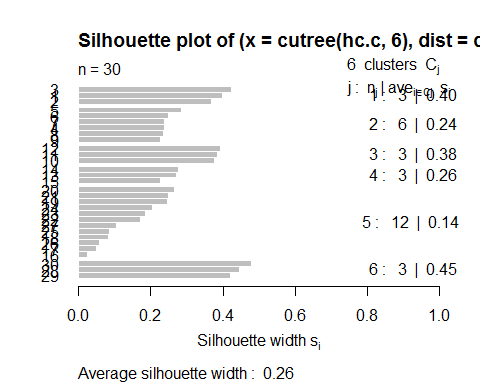
#Cluster Dendrogram with Average Linkage  
hc.a=hclust(distance,method = "average")  
plot(hc.a,hang = -1,cex=0.9)



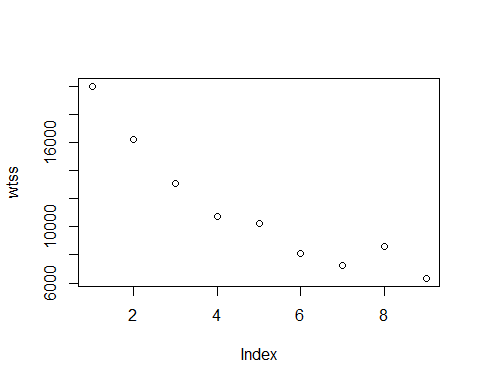
#cluster members  
member.c = cutree(hc.c,6)  
member.a =cutree(hc.a,6)  
table(member.a,member.c)

## member.c  
## member.a 1 2 3 4 5 6  
## 1 3 0 0 0 0 0  
## 2 0 6 0 0 0 0  
## 3 0 0 3 0 0 0  
## 4 0 0 0 3 0 0  
## 5 0 0 0 0 12 0  
## 6 0 0 0 0 0 3

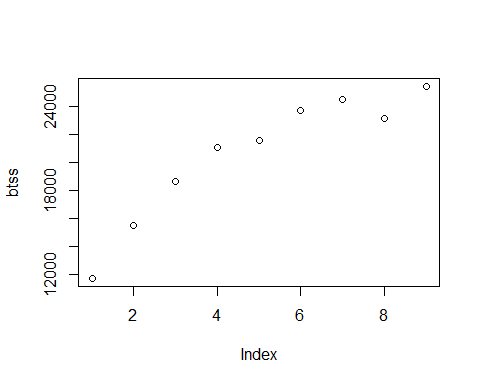
#silhouette Plot  
library(cluster)  
plot(silhouette(cutree(hc.c,6),distance))



#apply kmeans  
wtss = c()  
btss = c()  
for(i in 2:10)  
{  
 kmeanscluster = kmeans(TransposeSD,i)  
 wtss = c(wtss,kmeanscluster$tot.withinss)  
 btss = c(btss,kmeanscluster$betweenss)  
}  
plot(wtss)



plot(btss)



#kmeans  
kc=kmeans(TransposeSD,6)  
kc

## K-means clustering with 6 clusters of sizes 3, 3, 6, 3, 9, 6  
##   
## Cluster means:  
## 1 2 3 4 5 6  
## 1 1.618521 -0.7150899 -0.28710112 -0.7150899 -0.7150899 1.289788448  
## 2 1.955562 -0.6786641 -0.21955454 -0.5169282 -0.6786641 -0.004524534  
## 3 1.861426 -0.6952268 -0.37415876 -0.6952268 -0.6952268 0.595057372  
## 4 1.803264 -0.7074681 0.07800127 -0.4398156 -0.7074681 0.059204738  
## 7 8 9 10 11 12  
## 1 0.29061230 4.829852 0.06090056 1.876497 -0.6791333 -0.7150899  
## 2 0.38418352 4.859641 0.18526673 2.021934 -0.6786641 -0.6786641  
## 3 0.01852825 4.781034 0.07537835 1.779704 -0.6952268 -0.6952268  
## 4 0.56314232 4.577502 0.08591304 1.661211 -0.5905509 -0.7074681  
## 13 14 15 16 17 18 19  
## 1 -0.7150899 -0.7150899 -0.7150899 -0.6718276 1.4152734 1.562329 1.778156  
## 2 -0.6786641 -0.6786641 -0.6786641 -0.6786641 0.8708262 1.330036 1.572271  
## 3 -0.6952268 -0.6952268 -0.6952268 -0.6617669 1.1840595 1.307673 1.748335  
## 4 -0.7074681 -0.7074681 -0.7074681 -0.7074681 1.2809002 1.158793 1.124715  
## 20 21 22 23 24 25  
## 1 -0.5430797 0.27639475 1.0054901 -0.4823530 -0.6642746 -0.7150899  
## 2 -0.6786641 0.09035956 0.4860165 -0.3950068 -0.6786641 -0.6786641  
## 3 -0.6952268 0.14932958 0.5421762 -0.5055519 -0.3818550 -0.6952268  
## 4 -0.6651529 -0.17654819 1.1208701 -0.3435653 -0.3805776 -0.6088689  
## 26 27 28 29 30 31 32  
## 1 -0.3242596 0.3620359 0.8480611 -0.7150899 -0.7150899 3.196467 1.419521  
## 2 -0.6100284 0.3376217 0.8793877 -0.6786641 -0.5476518 4.672842 1.292497  
## 3 -0.5070155 0.4260723 0.8215339 -0.6952268 -0.6653621 4.597044 1.423628  
## 4 -0.5558813 0.6428262 0.7241356 -0.7074681 -0.7074681 3.620457 1.131263  
## 33 34 35 36 37 38  
## 1 -0.7150899 -0.7150899 3.257102 -0.7150899 -0.7150899 -0.7150899  
## 2 -0.6786641 -0.6786641 2.771179 -0.6786641 -0.6786641 -0.6786641  
## 3 -0.6952268 -0.6952268 2.925109 -0.6952268 -0.6952268 -0.6614147  
## 4 -0.7074681 -0.7074681 1.937624 -0.7074681 -0.7074681 -0.7074681  
## 39 40 41 42 43 44  
## 1 -0.6348839 -0.2100789 1.63164064 -0.6718276 -0.6528968 -0.7150899  
## 2 -0.6786641 -0.2622773 3.20239222 -0.6786641 -0.3292174 -0.6786641  
## 3 -0.6436995 -0.1996656 2.51714168 -0.6569384 -0.5761075 -0.6952268  
## 4 -0.5806355 -0.1412087 2.29550801 -0.7074681 -0.1680151 -0.7074681  
## 45 46 47 48 49 50 51  
## 1 -0.7150899 2.725592 0.00674768 2.722562 1.34130161 2.166917 -0.1935705  
## 2 -0.6786641 2.520395 0.05246050 2.425538 -0.03195701 1.866663 0.3878213  
## 3 -0.6952268 2.536000 0.11953212 2.526498 1.16575176 1.968488 0.2551312  
## 4 -0.6476862 2.489549 -0.04398043 2.488761 0.03016604 1.900110 0.4604458  
## 52 53 54 55 56 57  
## 1 -0.7150899 -0.5198562 -0.6528968 -0.7150899 -0.7150899 -0.7150899  
## 2 -0.6786641 -0.5042260 -0.6786641 -0.6786641 -0.6786641 -0.6100284  
## 3 -0.6952268 -0.5661661 -0.5950035 -0.6952268 -0.6952268 -0.6952268  
## 4 -0.7074681 -0.4277755 -0.6095901 -0.6503328 -0.7074681 -0.7074681  
## 58 59 60 61 62 63  
## 1 -0.50755287 -0.4305659 -0.7150899 -0.7150899 0.2161940 0.6162272  
## 2 -0.05962965 -0.5692474 -0.6786641 -0.6786641 0.3901805 0.9943730  
## 3 -0.34268697 -0.4501997 -0.6952268 -0.6952268 0.3866813 0.8719797  
## 4 0.28694073 -0.4251651 -0.7074681 -0.7074681 0.3021355 0.9547854  
## 64 65 66 67 68 69  
## 1 2.259233 0.5962337 -0.6718276 -0.3519146 0.5174698 -0.7150899  
## 2 1.979461 0.7515283 -0.5855639 -0.3292174 0.5175294 -0.6786641  
## 3 1.820084 0.6007284 -0.6952268 -0.2228793 0.6249348 -0.6952268  
## 4 1.922273 0.8651434 -0.6095901 -0.4432683 0.3087269 -0.7074681  
## 70 71 72 73 74 75  
## 1 -0.05076282 -0.7150899 4.051092 0.8706312 -0.5344999 0.5264612  
## 2 0.09494502 -0.6786641 4.061060 0.3138144 -0.6786641 0.8123210  
## 3 0.13449826 -0.6952268 4.144799 0.7058102 -0.5947384 0.6513749  
## 4 0.08046273 -0.7074681 3.979406 -0.1493223 -0.7074681 0.6313222  
## 76 77 78 79 80 81  
## 1 -0.7150899 -0.4410039 -0.5385566 -0.7150899 1.0480052 -0.7150899  
## 2 -0.6786641 1.1523215 -0.6786641 -0.6786641 1.0113425 -0.6786641  
## 3 -0.6952268 0.6163075 -0.5626254 -0.6952268 0.9583144 -0.6952268  
## 4 -0.7074681 1.0219190 -0.6651529 -0.7074681 1.3402141 -0.7074681  
## 82 83 84 85 86 87 88  
## 1 0.4674132 0.5243054 1.726614 -0.3411198 0.6707599 0.7004963 -0.6178621  
## 2 0.1207539 0.5854563 1.250988 -0.4111259 1.4411851 0.4259166 -0.6010252  
## 3 0.2314698 0.5255109 1.268954 -0.5878869 1.0171343 0.6781749 -0.5662243  
## 4 0.1248847 1.0923175 1.402122 -0.5659589 1.3467439 0.1149391 -0.6476862  
## 89 90 91 92 93 94  
## 1 0.316558689 0.19141018 -0.7150899 0.1173248 1.416728 -0.7150899  
## 2 0.002562428 -0.03288517 -0.6786641 0.3763773 1.985936 -0.6786641  
## 3 0.454273983 0.17289023 -0.6952268 0.3139053 1.719644 -0.6715374  
## 4 0.220607294 -0.29970904 -0.7074681 0.1195570 1.997627 -0.7074681  
## 95 96 97 98 99 100  
## 1 -0.116068079 -0.23674026 1.624540 -0.7150899 1.927252 -0.3683849  
## 2 -0.022680209 -0.08120690 1.806830 -0.6010252 1.970407 -0.6786641  
## 3 -0.026787569 -0.20410730 1.920548 -0.5783329 2.211442 -0.3757544  
## 4 0.051648127 0.02413078 1.705980 -0.5057390 2.031590 -0.5961857  
## 101 102 103 104 105 106 107  
## 1 1.1702997 1.334396 2.221439 1.0740533 -0.7150899 -0.7150899 -0.7150899  
## 2 0.9984207 1.191642 2.392923 0.8785554 -0.6786641 -0.6786641 -0.6786641  
## 3 1.1305744 1.292047 2.129057 0.8036606 -0.6952268 -0.6952268 -0.6203374  
## 4 1.1582251 1.209911 2.380142 1.0129295 -0.7074681 -0.7074681 -0.6290249  
## 108 109 110 111 112 113 114  
## 1 1.207131 0.7960669 -0.7150899 -0.7150899 3.084220 -0.6433246 -0.7150899  
## 2 2.057566 0.4120599 -0.6786641 -0.6786641 2.956535 -0.6786641 -0.6786641  
## 3 1.499464 0.9387512 -0.6952268 -0.6715374 3.023708 -0.6952268 -0.6952268  
## 4 2.453384 1.1090658 -0.7074681 -0.6343245 2.710055 -0.6651529 -0.7074681  
## 115 116 117 118 119 120  
## 1 0.184823365 -0.7150899 -0.7150899 2.315052 0.07465122 -0.7150899  
## 2 -0.010537141 -0.6786641 -0.6786641 1.949123 0.03461418 -0.6786641  
## 3 -0.245052015 -0.6952268 -0.6952268 2.049912 0.19657288 -0.6952268  
## 4 0.001409379 -0.7074681 -0.7074681 1.270229 0.21881083 -0.7074681  
## 121 122 123 124 125 126  
## 1 -0.2670677 -0.7150899 -0.36207836 0.6085133 -0.7150899 0.02466258  
## 2 -0.4294191 -0.6786641 0.57133771 0.8587676 -0.6786641 -0.02038524  
## 3 -0.6952268 -0.6952268 0.07438863 0.7975824 -0.6952268 -0.15061995  
## 4 -0.6503328 -0.7074681 0.40806881 0.8432044 -0.7074681 0.32207574  
## 127 128 129 130 131 132 133  
## 1 -0.6000622 0.8300077 -0.7150899 0.8933704 -0.7150899 2.839574 0.5532646  
## 2 -0.3968109 0.7356945 -0.6786641 0.8426470 -0.6786641 3.136857 0.4217381  
## 3 -0.4989747 0.8918684 -0.6952268 1.1128662 -0.6569384 3.067560 0.7072891  
## 4 -0.5295744 1.0746698 -0.6503328 0.9425200 -0.5545926 3.233799 -0.3741832  
## 134 135 136 137 138 139  
## 1 -0.7150899 -0.6495276 0.9051380 -0.5556665 0.28839747 -0.6686775  
## 2 -0.6786641 -0.6786641 1.1736769 -0.3650331 -0.18303763 -0.6786641  
## 3 -0.6952268 -0.6614147 1.0741494 -0.4653793 -0.08633365 -0.6952268  
## 4 -0.6519053 -0.7074681 0.5440636 -0.5129592 0.11704693 -0.7074681  
## 140 141 142 143 144 145 146  
## 1 0.06268092 2.435769 0.9624050 1.745455 -0.3376751 -0.7150899 0.4166237  
## 2 -0.15535778 1.719368 0.9374285 1.850047 0.5083864 -0.6786641 0.1103049  
## 3 0.32105565 1.988479 0.8998030 1.656614 0.4010608 -0.6952268 0.1857052  
## 4 -0.21238817 1.817545 0.9954004 1.812732 0.7522868 -0.7074681 0.3055444  
## 147 148 149 150 151 152  
## 1 -0.2992696 -0.6495276 -0.7150899 -0.4433843 0.8698650 -0.6718276  
## 2 -0.2895201 -0.5042260 -0.6786641 -0.5451149 1.0071540 -0.6786641  
## 3 -0.1377766 -0.4640564 -0.6952268 -0.4510535 0.9561310 -0.6952268  
## 4 -0.1966873 -0.5121079 -0.7074681 -0.4975865 0.9361316 -0.7074681  
## 153 154 155 156 157 158  
## 1 -0.2027763 -0.1154642 -0.10148715 -0.6642746 -0.7150899 2.2412375  
## 2 -0.4174220 -0.4724482 -0.29133498 -0.6786641 -0.6786641 2.4993061  
## 3 -0.2663068 -0.2269771 -0.04761051 -0.6614147 -0.6952268 3.0345870  
## 4 -0.2603545 -0.1786330 -0.11773351 -0.7074681 -0.7074681 1.6370253  
## 159 160 161 162 163 164 165  
## 1 0.1546139 0.4192225 1.489440 1.598794 -0.5315968 -0.7150899 1.200582  
## 2 0.4165513 0.2609336 1.699465 3.321118 -0.5855639 -0.6010252 1.145959  
## 3 0.2901632 0.4639839 1.535707 2.140361 -0.4659219 -0.5629308 1.154470  
## 4 0.2626609 0.5620545 1.470811 3.368080 -0.3280790 -0.5718896 1.258042  
## 166 167 168 169 170 171 172  
## 1 0.8190383 0.4986348 -0.3106030 -0.7150899 -0.7150899 1.438455 -0.7150899  
## 2 0.9920523 0.5143719 1.2645432 -0.6786641 -0.6786641 2.832544 -0.6786641  
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## 1 1.312107 -0.6225806 -0.7150899 2.2643955 -0.5375915 -0.7150899  
## 2 1.462052 -0.5818650 -0.6786641 0.8450547 -0.6786641 -0.6786641  
## 3 1.399541 -0.6322946 -0.6952268 1.0610851 -0.6952268 -0.6715374  
## 4 1.588693 -0.6268151 -0.7074681 1.9970861 -0.6043381 -0.7074681  
## 1647 1648 1649 1650 1651 1652 1653  
## 1 -0.7150899 0.2098679 -0.5873345 -0.6718276 2.130441 1.22387654 1.539456  
## 2 -0.6786641 0.4654830 -0.6010252 -0.6010252 1.331917 -0.02593785 1.980344  
## 3 -0.6952268 0.3484265 -0.5336300 -0.6952268 1.377344 0.29855012 1.733330  
## 4 -0.7074681 0.3682409 -0.6651529 -0.7074681 1.017742 0.51196597 1.786386  
## 1654 1655 1656 1657 1658 1659  
## 1 0.252993690 -0.6791333 2.669146 0.8121043 -0.7150899 0.6516904  
## 2 0.227930974 -0.6786641 1.985396 0.6287840 -0.6786641 0.6251188  
## 3 0.005419431 -0.6952268 2.179444 0.6787211 -0.6952268 0.5719612  
## 4 0.185228107 -0.7074681 1.895548 0.4131915 -0.7074681 0.2311657  
## 1660 1661 1662 1663 1664 1665 1666  
## 1 0.9512932 1.123429 -0.7150899 0.1370068 -0.7150899 -0.7150899 -0.1626611  
## 2 1.0619371 1.225352 -0.6786641 0.3326681 -0.6786641 -0.6786641 -0.4382351  
## 3 0.7610841 1.298986 -0.6952268 0.2975764 -0.6952268 -0.6952268 -0.3180034  
## 4 0.9159076 1.018313 -0.7074681 0.2703877 -0.6519053 -0.7074681 -0.4541336  
## 1667 1668 1669 1670 1671 1672 1673  
## 1 -0.12078278 -0.6433246 1.598808 0.8124646 -0.7150899 0.3987927 1.301443  
## 2 0.19739779 -0.6010252 1.685628 1.0188440 -0.6786641 0.7796011 1.790172  
## 3 -0.06512352 -0.6107094 1.550010 0.8474791 -0.6952268 0.7758405 1.488731  
## 4 0.42874298 -0.6343245 1.508947 0.9264993 -0.7074681 0.7367101 1.835645  
## 1674 1675 1676 1677 1678 1679 1680  
## 1 1.012356 -0.02918885 -0.7150899 1.973013 4.785650 0.1893973 0.2580541  
## 2 2.452012 -0.29574215 -0.6786641 1.561351 3.783706 0.3033147 0.1638138  
## 3 2.084628 -0.34802913 -0.6238419 1.606024 4.074660 0.4739517 0.1574048  
## 4 2.712144 -0.32852118 -0.3747445 1.481562 3.595937 -0.2857344 0.3220432  
## 1681 1682 1683 1684 1685 1686 1687  
## 1 0.8766574 -0.17001742 -0.7150899 -0.6178621 1.437284 0.3229231 4.119545  
## 2 0.6318804 -0.13730982 -0.5425066 -0.6010252 2.459523 1.5633238 3.869103  
## 3 0.7839275 -0.31547796 -0.5563275 -0.6160097 2.146928 0.7121911 3.968040  
## 4 0.4696745 -0.12610512 -0.6343245 -0.5659589 2.371990 0.4219169 3.619181  
## 1688 1689 1690 1691 1692 1693 1694  
## 1 0.4573707 0.01037001 1.410389 2.952510 1.5543906 -0.5239298 -0.7150899  
## 2 0.9721193 -0.24337449 1.516445 3.060609 1.0291130 -0.3127686 -0.6786641  
## 3 1.0686159 -0.32065332 1.381613 2.911200 1.1381056 -0.4381371 -0.6952268  
## 4 0.8632436 -0.03689236 1.486578 3.124553 0.9481627 -0.1784224 -0.7074681  
## 1695 1696 1697 1698 1699 1700  
## 1 -0.01983272 1.0018779 -0.49658788 -0.29294467 -0.7150899 -0.7150899  
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## 3 -0.11280884 0.9204579 -0.43228405 -0.24896205 -0.6542981 -0.6952268  
## 4 0.11063734 1.1028330 -0.08302688 -0.19545469 -0.5938215 -0.7074681  
## 1701 1702 1703 1704 1705 1706  
## 1 1.218407 -0.5601261 0.9449299 -0.12670638 0.211054810 -0.7150899  
## 2 1.871463 -0.6010252 0.9774535 -0.18773967 -0.008855789 -0.6786641  
## 3 1.576660 -0.6003283 1.0305972 -0.08341687 -0.040722523 -0.6952268  
## 4 1.490589 -0.5259719 1.4015948 0.02632132 0.026016292 -0.7074681  
## 1707 1708 1709 1710 1711 1712  
## 1 0.4557512 -0.7150899 0.59882270 -0.7150899 -0.7150899 -0.7150899  
## 2 0.2652751 -0.6786641 -0.01474117 -0.5169282 -0.6786641 -0.6786641  
## 3 0.2649610 -0.6952268 0.46988224 -0.6332490 -0.6952268 -0.6952268  
## 4 0.1455751 -0.7074681 0.12850412 -0.3890229 -0.7074681 -0.7074681  
## 1713 1714 1715 1716 1717 1718  
## 1 -0.1710499 -0.7150899 -0.7150899 -0.7150899 3.074155 -0.7150899  
## 2 -0.3020776 -0.6786641 -0.6786641 -0.6786641 5.819399 -0.6786641  
## 3 -0.4222051 -0.6952268 -0.6952268 -0.6952268 4.800530 -0.6952268  
## 4 -0.4424103 -0.7074681 -0.7074681 -0.7074681 6.000081 -0.7074681  
## 1719 1720 1721 1722 1723 1724  
## 1 0.4962973 -0.7150899 1.0040973 1.4535702 1.597165 0.1717236534  
## 2 0.7824274 -0.6786641 0.3625158 1.2586573 3.033809 -0.2803405681  
## 3 0.6332175 -0.6952268 0.5750421 1.0641910 2.329649 -0.0484526298  
## 4 0.3455615 -0.7074681 0.8773974 0.8605735 3.782403 -0.0005437836  
## 1725 1726 1727 1728 1729 1730  
## 1 -0.7150899 -0.5556650 -0.35080627 0.6438339 -0.7150899 -0.7150899  
## 2 -0.6786641 -0.6786641 -0.24213696 0.8198608 -0.6786641 -0.6786641  
## 3 -0.6952268 -0.6952268 -0.17389022 0.5739659 -0.6952268 -0.6952268  
## 4 -0.7074681 -0.7074681 -0.18896456 0.5833546 -0.6088689 -0.7074681  
## 1731 1732 1733 1734 1735 1736 1737  
## 1 -0.06198178 -0.7150899 0.9921157 0.6867357 0.898602 0.9646892 3.326037  
## 2 0.04435136 -0.6786641 0.9416689 0.7003452 1.186769 0.8287010 3.216080  
## 3 0.10874427 -0.6952268 0.9103549 0.8637141 1.148576 0.8983252 3.223933  
## 4 0.09415569 -0.7074681 0.8820348 0.7525713 1.372552 0.7665239 3.279251  
## 1738 1739 1740 1741 1742 1743  
## 1 0.9194362 -0.6178621 -0.02752412 -0.7150899 -0.7150899 -0.7150899  
## 2 0.8251218 -0.6786641 0.04382125 -0.6010252 -0.6786641 -0.6786641  
## 3 0.9165277 -0.6715374 0.03260160 -0.6617669 -0.6952268 -0.6952268  
## 4 0.7132201 -0.6095901 -0.07713434 -0.5712523 -0.7074681 -0.7074681  
## 1744 1745 1746 1747 1748 1749  
## 1 -0.6495276 -0.7150899 -0.7150899 1.0547555 -0.6528968 -0.46843723  
## 2 -0.5855639 -0.6786641 -0.6786641 0.5548695 -0.6786641 -0.04864134  
## 3 -0.6617669 -0.6952268 -0.6952268 0.8665489 -0.6074449 -0.33065310  
## 4 -0.6651529 -0.7074681 -0.7074681 0.6088025 -0.6651529 -0.06554771  
## 1750 1751 1752 1753 1754 1755  
## 1 -0.6348839 -0.22971223 0.074850971 -0.04606899 0.8410501 2.023435  
## 2 -0.5189844 0.07190957 0.510771489 -0.41112587 1.7531610 2.255445  
## 3 -0.6715374 0.02809038 0.529533040 -0.51107705 1.3445322 2.136240  
## 4 -0.6115583 0.02563975 0.005827332 -0.21771813 1.4430574 1.684906  
## 1756 1757 1758 1759 1760 1761 1762  
## 1 2.157698 -0.7150899 0.947680 1.820673 1.153719 -0.7150899 0.1403672  
## 2 1.843927 -0.6786641 2.138791 1.982327 1.375008 -0.6786641 1.0755526  
## 3 1.884909 -0.6952268 1.582378 2.044510 1.591163 -0.6952268 1.0030777  
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## 1763 1764 1765 1766 1767 1768 1769  
## 1 -0.32882731 2.387464 0.4755079 2.515259 -0.7150899 -0.52783742 1.425453  
## 2 -0.40751151 3.218148 0.3778719 3.529416 -0.6786641 -0.67866409 1.489960  
## 3 -0.27026797 2.616243 0.7105154 2.941095 -0.6952268 -0.37850263 1.742485  
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## 1770 1771 1772 1773 1774 1775 1776  
## 1 2.306457 -0.7150899 1.863519 0.09243169 -0.5189402 0.6695458 2.317948  
## 2 1.211862 -0.6786641 3.734806 0.03906777 -0.5855639 0.2768639 2.280279  
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## 4 1.566022 -0.6095901 3.234518 0.16410677 -0.5867097 0.4843202 2.286374  
## 1777 1778 1779 1780 1781 1782  
## 1 0.3871078 0.8519894 -0.7150899 -0.5336677 -0.4518194 2.275483  
## 2 0.5353716 1.0030487 -0.6786641 -0.5855639 -0.3136417 2.370888  
## 3 0.5094924 0.7591004 -0.6952268 -0.6373509 -0.2839345 2.418386  
## 4 0.4919096 0.8722925 -0.7074681 -0.7074681 -0.2118420 2.347622  
## 1783 1784 1785 1786 1787 1788  
## 1 -0.51985622 0.7630571 -0.42471712 -0.4992667 -0.7150899 0.017653667  
## 2 -0.04617940 1.1062134 0.02971005 -0.5818650 -0.6786641 -0.056394108  
## 3 0.03562054 0.9493248 -0.24439122 -0.4741554 -0.6952268 0.043484689  
## 4 -0.04316634 1.1305647 0.35604208 -0.6476862 -0.7074681 -0.028425945  
## 1789 1790 1791 1792 1793 1794  
## 1 -0.7150899 -0.7150899 -0.7150899 -0.5228244 -0.11806740 -0.5632623  
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## 3 -0.6952268 -0.6952268 -0.6952268 -0.5921717 0.02363366 -0.6077971  
## 4 -0.7074681 -0.7074681 -0.7074681 -0.4996909 0.28301132 -0.4846143  
## 1795 1796 1797 1798 1799 1800 1801  
## 1 0.1108738 2.324497 0.2945687 1.594262 -0.2305289 0.04888524 -0.3942580  
## 2 0.5254296 2.685152 1.1481902 2.138033 -0.1838310 0.43617565 0.5910110  
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## 4 0.5690908 2.665946 1.0848171 2.111091 -0.3728582 0.56649862 -0.3903214  
## 1802 1803 1804 1805 1806 1807 1808  
## 1 1.774823 2.002908 2.011375 1.4568175 0.63001524 -0.7150899 1.963565  
## 2 1.233684 1.876949 1.751015 1.0111207 -0.02147636 -0.6786641 2.393362  
## 3 1.548369 2.010297 1.551812 1.3053912 0.40674876 -0.6952268 2.214581  
## 4 1.229373 1.932452 1.824317 1.0573678 0.26559715 -0.7074681 1.908692  
## 1809 1810 1811 1812 1813 1814 1815  
## 1 0.6166044 -0.5453636 0.8314616 2.145593 0.9563475 -0.5082255 -0.6528968  
## 2 0.6833122 -0.6786641 1.2823825 1.766142 0.7055165 -0.6786641 -0.6786641  
## 3 0.7931773 -0.6586803 1.1367664 1.920511 0.7981837 -0.5478029 -0.6952268  
## 4 0.7320193 -0.7074681 0.3886647 2.024886 0.7973889 -0.5244950 -0.7074681  
## 1816 1817 1818 1819 1820 1821  
## 1 -0.7150899 -0.7150899 1.465642 -0.6433246 -0.7150899 -0.7150899  
## 2 -0.6786641 -0.6786641 2.021483 -0.4382351 -0.6786641 -0.6786641  
## 3 -0.6952268 -0.6952268 2.094463 -0.4497617 -0.6952268 -0.6952268  
## 4 -0.7074681 -0.7074681 1.920360 -0.4425850 -0.7074681 -0.7074681  
## 1822 1823 1824 1825 1826 1827 1828  
## 1 -0.5894585 1.346251 1.3032365 2.299646 -0.6642746 -0.004600828 1.716579  
## 2 -0.6786641 1.400594 0.4010934 2.322195 -0.5818650 -0.079195915 1.512739  
## 3 -0.5624224 1.313010 0.8051938 3.244458 -0.4371155 0.093544934 1.598198  
## 4 -0.7074681 1.708133 0.4998091 2.242909 -0.4730632 -0.001412201 1.661342  
## 1829 1830 1831 1832 1833 1834 1835  
## 1 0.7545945 2.555380 1.7138744 -0.7150899 0.5392127 2.155440 -0.029623832  
## 2 0.7115317 2.878629 0.9092294 -0.6786641 0.6915128 2.208466 -0.340932022  
## 3 0.6179676 2.872187 0.9799823 -0.6952268 0.3768887 2.281601 -0.025486581  
## 4 0.8040925 2.746111 1.0179111 -0.6476862 0.8453474 2.113173 -0.342438721  
## 1836 1837 1838 1839 1840 1841 1842  
## 1 1.1981631 -0.5115700 -0.5840530 2.448228 1.399094 1.0550559 1.316871  
## 2 1.2637025 -0.6786641 -0.6786641 1.933929 1.422904 1.0428592 1.740387  
## 3 1.4277398 -0.5572838 -0.6138290 1.932569 1.383958 0.8468967 1.348192  
## 4 0.9807412 -0.5921234 -0.4366671 1.507746 1.109742 1.0519371 1.361374  
## 1843 1844 1845 1846 1847 1848 1849  
## 1 2.158402 -0.7150899 1.2498073 -0.5894922 1.033564 -0.7150899 -0.7150899  
## 2 2.431317 -0.6786641 1.3481756 -0.4483158 1.264986 -0.6786641 -0.6786641  
## 3 2.416629 -0.6952268 0.7337235 -0.5221410 1.203209 -0.6952268 -0.6952268  
## 4 1.931567 -0.7074681 1.9108636 -0.7074681 1.083411 -0.7074681 -0.7074681  
## 1850 1851 1852 1853 1854 1855 1856  
## 1 1.402771 0.5294081 3.607354 0.8660530 2.692407 -0.2715790 -0.2882986  
## 2 1.494197 0.3985678 3.372417 0.7213976 2.944262 -0.6010252 -0.3077569  
## 3 1.417026 0.4316098 3.265349 0.7378818 2.935720 -0.5501001 -0.4288142  
## 4 1.188288 0.3691374 3.252482 0.7075097 2.816277 -0.3087314 -0.2735006  
## 1857 1858 1859 1860 1861 1862  
## 1 1.2631418 -0.34912475 0.39576669 -0.4084944 1.220050 0.83907763  
## 2 1.5191371 0.31202467 0.05752094 -0.4318744 1.053344 0.09729559  
## 3 1.7843475 0.35414410 0.28918847 -0.3145270 1.078612 0.42352218  
## 4 1.2065020 0.06459831 0.29885534 -0.2437236 1.111263 0.14714531  
## 1863 1864 1865 1866 1867 1868  
## 1 -0.7150899 -0.7150899 0.3043004 -0.7150899 1.514158 1.5710744  
## 2 -0.6786641 -0.6786641 -0.6786641 -0.6786641 1.161188 0.9668682  
## 3 -0.6952268 -0.6952268 -0.2908012 -0.6952268 1.223363 0.9358587  
## 4 -0.7074681 -0.6519053 -0.1113951 -0.6088689 1.739816 1.2603697  
## 1869 1870 1871 1872 1873 1874  
## 1 -0.05155718 0.01384957 -0.7150899 2.052686 0.5594546 -0.40781109  
## 2 -0.01386095 -0.35178017 -0.6010252 1.658984 0.2966655 -0.13983512  
## 3 -0.05220090 -0.40306950 -0.6653621 1.602215 0.4350182 -0.41967250  
## 4 -0.20990202 -0.70746807 -0.7074681 1.705294 0.1620313 0.22173982  
## 1875 1876 1877 1878 1879 1880  
## 1 1.3808019 -0.23924914 -0.009594177 1.417805 1.4822406 0.08343905  
## 2 0.6267222 -0.31679960 0.824656623 1.636277 1.0107209 0.93180690  
## 3 1.1467192 -0.47789228 0.228829379 1.433142 1.2159979 0.59079033  
## 4 0.7131272 -0.09651362 0.796861948 1.574780 0.9356619 0.92687002  
## 1881 1882 1883 1884 1885 1886 1887  
## 1 0.14453726 -0.4560409 -0.6718276 1.754306 1.578695 -0.7150899 2.333252  
## 2 -0.02788306 -0.1151281 -0.6786641 1.517504 2.187896 -0.6786641 2.683654  
## 3 0.24655971 -0.0808797 -0.6614147 1.448728 2.045848 -0.6952268 2.456918  
## 4 0.30175974 -0.2358431 -0.7074681 1.869338 3.211107 -0.7074681 2.549127  
## 1888 1889 1890 1891 1892 1893 1894  
## 1 -0.7150899 0.07675233 3.256294 1.085340 -0.2908507 -0.4933300 1.713014  
## 2 -0.6786641 1.05214069 2.598482 1.191580 -0.1461209 -0.4520148 1.407045  
## 3 -0.6952268 1.31014184 2.835096 1.029974 -0.3005313 -0.3647735 1.524036  
## 4 -0.7074681 0.76562605 2.902939 1.128182 -0.1717377 -0.4187208 1.288977  
## 1895 1896 1897 1898 1899 1900  
## 1 -0.7150899 0.3103453 0.09987556 -0.7150899 1.1400554 0.4536762  
## 2 -0.6786641 0.3392153 0.07742008 -0.6786641 1.2972026 1.4980071  
## 3 -0.6952268 0.7453759 0.14528076 -0.6952268 1.2555530 1.3439276  
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## 1901 1902 1903 1904 1905 1906 1907  
## 1 -0.7150899 3.198351 -0.7150899 -0.7150899 1.3176999 0.3327439 -0.7150899  
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## 3 -0.6952268 2.965269 -0.6304601 -0.6952268 1.4091790 0.1830874 -0.6952268  
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## 1908 1909 1910 1911 1912 1913  
## 1 1.909414 1.631911 -0.7150899 0.5105334 -0.7150899 0.386272364  
## 2 2.026006 1.730251 -0.6786641 0.5081152 -0.6786641 0.054477868  
## 3 2.031974 1.426207 -0.6952268 0.5409553 -0.6952268 0.165213603  
## 4 2.248132 1.665044 -0.7074681 0.4152442 -0.7074681 -0.227033486  
## 1914 1915 1916 1917 1918 1919  
## 1 -0.5632219 -0.7150899 -0.7150899 -0.7150899 -0.7150899 0.23262111  
## 2 -0.5818650 -0.6786641 -0.5855639 -0.6786641 -0.5855639 -0.12084800  
## 3 -0.5436648 -0.6952268 -0.6952268 -0.6952268 -0.6542981 -0.08647853  
## 4 -0.5340396 -0.7074681 -0.7074681 -0.6476862 -0.1560226 0.06194313  
## 1920 1921 1922 1923 1924 1925  
## 1 1.435166 -0.7150899 -0.03274042 1.993782 -0.10696008 -0.3703878  
## 2 3.558596 -0.6786641 -0.32927563 1.785848 0.03436935 -0.2480858  
## 3 2.691592 -0.6952268 -0.33644230 1.908492 -0.14671415 -0.3071954  
## 4 3.276252 -0.7074681 0.14588836 1.730714 -0.01464099 -0.1984654  
## 1926 1927 1928 1929 1930 1931 1932  
## 1 0.9125001 0.1859893 0.6881394 -0.7150899 2.800366 -0.7150899 -0.20712385  
## 2 0.8284066 0.3157700 0.4618946 -0.6786641 2.768816 -0.6786641 -0.09904586  
## 3 0.7744933 0.2090358 0.5398387 -0.6952268 2.858613 -0.6952268 -0.12187113  
## 4 0.7835953 0.3946176 0.4714014 -0.7074681 2.833064 -0.5544231 -0.24097025  
## 1933 1934 1935 1936 1937 1938 1939  
## 1 1.673450 -0.6349085 0.7387010 -0.6078062 0.4461516 0.8010710 1.450507  
## 2 1.550642 -0.4520148 0.4443142 -0.3888171 0.4293223 0.4510902 1.790771  
## 3 1.671367 -0.4827385 1.0748147 -0.4062575 0.3916321 0.7477478 1.682373  
## 4 1.444688 -0.4512932 0.5346085 -0.3900288 0.3537881 0.3880440 1.634387  
## 1940 1941 1942 1943 1944 1945 1946  
## 1 2.285617 -0.7150899 3.350282 -0.3960877 -0.06619333 0.9348985 0.7355386  
## 2 2.580910 -0.6786641 2.836872 -0.2745429 -0.47901614 1.4714253 0.2694487  
## 3 2.427650 -0.6952268 3.152207 -0.3826017 -0.34628085 1.5980907 0.3991000  
## 4 2.629629 -0.7074681 2.081135 -0.1061819 -0.20377046 1.5222854 0.2741793  
## 1947 1948 1949 1950 1951 1952  
## 1 -0.466716694 -0.7150899 -0.6642746 0.417274345 -0.7150899 -0.5824122  
## 2 -0.464867679 -0.6786641 -0.5855639 0.287778784 -0.6786641 -0.6786641  
## 3 -0.620010094 -0.6952268 -0.5499846 0.269318174 -0.6952268 -0.6425187  
## 4 -0.348443648 -0.7074681 -0.5517764 0.001880593 -0.7074681 -0.5938215  
## 1953 1954 1955 1956 1957 1958 1959  
## 1 1.212866 1.540637 0.1335124 0.38976363 -0.1692856 -0.7150899 -0.7150899  
## 2 1.319173 1.914905 -0.6100284 0.08909577 -0.5425066 -0.6786641 -0.6786641  
## 3 1.179365 1.773405 -0.5219960 0.31420801 -0.3243800 -0.6952268 -0.6952268  
## 4 1.586047 1.570506 -0.5121079 0.39941711 -0.4455342 -0.7074681 -0.7074681  
## 1960 1961 1962 1963 1964 1965  
## 1 -0.7150899 1.302990 -0.7150899 3.921216 -0.4587804 0.06878605  
## 2 -0.6786641 1.122751 -0.6786641 3.732523 -0.3297940 -0.31730355  
## 3 -0.6952268 1.270921 -0.6952268 3.723837 -0.3120647 -0.26912519  
## 4 -0.7074681 1.120382 -0.7074681 4.231672 -0.4666289 -0.33667362  
## 1966 1967 1968 1969 1970 1971 1972  
## 1 -0.7150899 0.1615633 -0.7150899 -0.7150899 -0.1185908 2.461273 1.069741  
## 2 -0.6786641 -0.4111259 -0.6786641 -0.6786641 -0.3433310 3.040355 1.139264  
## 3 -0.6952268 -0.1189694 -0.6952268 -0.6952268 -0.2109000 2.991086 1.086632  
## 4 -0.7074681 0.2366903 -0.7074681 -0.6651529 -0.2515915 2.460520 1.370556  
## 1973 1974 1975 1976 1977 1978 1979  
## 1 0.5098641 -0.7150899 1.3476173 1.613599 1.933946 0.09510969 2.267408  
## 2 0.6857978 -0.6786641 0.8706026 2.315862 3.812109 -0.51278334 2.388995  
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## 4 0.4451236 -0.7074681 0.5893720 2.302960 4.321006 -0.41903793 2.962145  
## 1980 1981 1982 1983 1984 1985 1986  
## 1 1.229224 -0.7150899 1.1225736 -0.3560012 0.9063153 -0.2943633 0.3986033  
## 2 1.240713 -0.6786641 1.1526132 -0.5604314 1.3663183 -0.3488818 0.2674756  
## 3 1.404801 -0.6952268 1.3903942 -0.3688003 1.2963309 -0.2660583 0.5555674  
## 4 1.482972 -0.7074681 0.9430551 -0.2787875 1.7122855 -0.2756241 0.4564883  
## 1987 1988 1989 1990 1991 1992 1993  
## 1 -0.6433246 -0.06549182 1.0265398 1.278146 0.6023045 -0.2782050 1.3432915  
## 2 -0.6786641 -0.06277066 0.8907664 1.510118 0.4750525 -0.2929715 2.0735888  
## 3 -0.6586803 0.03440865 0.8858209 1.745061 0.6366868 -0.3290167 1.9576234  
## 4 -0.6651529 -0.02237640 0.8343979 1.101227 0.7602048 -0.2661458 1.0525967  
## 1994 1995 1996 1997 1998 1999 2000  
## 1 1.220923 1.690531 -0.7150899 2.183171 -0.7150899 4.184037 0.1084518  
## 2 1.637395 1.344194 -0.6786641 3.592308 -0.6786641 4.043615 0.4687962  
## 3 1.289338 1.309981 -0.6952268 3.374200 -0.6952268 3.991450 0.4655890  
## 4 1.506739 1.457891 -0.7074681 3.519285 -0.7074681 3.913485 0.5070823  
## 2001 2002 2003 2004 2005 2006 2007  
## 1 0.39910567 -0.7150899 0.1262607 1.488521 -0.5152969 1.585995 0.9435793  
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## 3 0.38551360 -0.6952268 0.3318302 1.849661 -0.6715374 1.310153 1.2472378  
## 4 0.08763885 -0.7074681 0.3457167 1.651524 -0.7074681 1.400866 1.7347886  
## 2008 2009 2010 2011 2012 2013  
## 1 0.5699527 -0.4663212 2.808884 -0.6358710 -0.6528968 -0.7150899  
## 2 1.1058068 -0.3839596 2.962053 -0.6010252 -0.6786641 -0.6786641  
## 3 0.9325455 -0.3366223 2.806205 -0.6011788 -0.6952268 -0.6952268  
## 4 0.7008272 -0.3870262 2.587226 -0.3225380 -0.7074681 -0.7074681  
## 2014 2015 2016 2017 2018 2019  
## 1 -0.7150899 1.3418983 -0.1814830 0.1821944 -0.7150899 0.362118959  
## 2 -0.6786641 0.8070724 0.1060507 0.3042390 -0.6786641 -0.139780824  
## 3 -0.6952268 0.9047371 0.1828002 0.4349594 -0.6952268 0.093304208  
## 4 -0.7074681 1.1744789 0.3903585 0.1175272 -0.7074681 -0.365490829  
## 2020 2021 2022 2023 2024 2025  
## 1 0.1899135 -0.6348839 0.8293279 -0.3765613 -0.7150899 -0.5614599  
## 2 0.3059198 -0.6786641 1.6858347 -0.2744210 -0.6786641 -0.4761472  
## 3 0.1788641 -0.6617669 1.3535097 -0.3078662 -0.6952268 -0.6480250  
## 4 0.2957803 -0.7074681 2.1035919 -0.3894450 -0.7074681 -0.5692432  
## 2026 2027 2028 2029 2030 2031 2032  
## 1 -0.7150899 0.35204789 -0.7150899 1.0927867 -0.7150899 1.949186 1.233495  
## 2 -0.6786641 0.11306870 -0.6100284 0.6472319 -0.6786641 1.751602 1.048101  
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## 4 -0.4987461 -0.13375066 -0.7074681 0.8505699 -0.7074681 1.695814 1.080893  
## 2033 2034 2035 2036 2037 2038 2039  
## 1 1.0203870 -0.7150899 1.573019 0.3356557 -0.5827814 0.2146631 -0.7150899  
## 2 1.0176932 -0.6786641 1.852638 0.2266934 -0.6786641 0.4436083 -0.6786641  
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## 4 0.9687906 -0.7074681 1.626561 0.1190690 -0.5692430 0.3291498 -0.7074681  
## 2040 2041 2042 2043 2044 2045  
## 1 -0.5863268 0.4637079 1.891886 -0.20928882 -0.08318536 -0.7150899  
## 2 -0.6786641 0.4302278 1.825832 -0.33507531 0.96501490 -0.5323895  
## 3 -0.4973722 0.4632020 2.045648 -0.42697536 0.39194860 -0.6181603  
## 4 -0.6132297 0.4393103 2.020282 -0.14874002 0.92868740 -0.6268151  
## 2046 2047 2048 2049 2050 2051 2052  
## 1 0.8811420 1.943049 0.397710260 1.357054 -0.3570594 0.7095400 2.2007870  
## 2 1.0004148 1.247100 0.006052296 1.776192 -0.5425066 0.2498867 0.6190454  
## 3 0.9608268 1.385446 0.338794078 1.165843 -0.3771532 0.1736921 1.3074531  
## 4 0.9748272 1.068231 -0.158049229 1.407580 -0.4875157 0.2574655 0.1201670  
## 2053 2054 2055 2056 2057 2058  
## 1 -0.6539692 0.8437547 1.2403699 -0.6528968 -0.4651065 0.6667049  
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## 3 -0.6952268 0.6714497 0.9833855 -0.6952268 -0.6569384 0.4122333  
## 4 -0.7074681 0.6777166 1.0603035 -0.6268151 -0.7074681 0.2236189  
## 2059 2060 2061 2062 2063 2064  
## 1 -0.15007686 1.3708719 0.21448852 -0.6718276 1.871532 0.2735611  
## 2 -0.01229147 1.7255306 -0.01125319 -0.6786641 1.552372 0.2482412  
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## 2065 2066 2067 2068 2069 2070  
## 1 -0.6403075 -0.3050687 -0.6210122 0.4432068 -0.7150899 -0.3650784  
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## 4 -0.4706438 -0.3727810 -0.5544231 0.3775346 -0.7074681 -0.3529221  
## 2071 2072 2073 2074 2075 2076  
## 1 -0.7150899 0.44031493 -0.5661946 0.32272903 -0.7150899 -0.17775900  
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## 2077 2078 2079 2080 2081 2082  
## 1 0.6091236 -0.7150899 1.170291 -0.5917760 -0.7150899 -0.7150899  
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## 2083 2084 2085 2086 2087 2088 2089  
## 1 -0.7150899 1.0521728 0.2039113 0.1388897 1.981141 1.111627 0.17789276  
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## 3 -0.6952268 0.3364906 0.4473657 0.4254266 1.924542 1.201881 0.14240988  
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## 2090 2091 2092 2093 2094 2095 2096  
## 1 0.58749565 1.656897 -0.7150899 1.487975 0.6574166 -0.1869713 0.7811779  
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## 2097 2098 2099 2100 2101 2102  
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## 3 -0.6952268 -0.3798195 -0.6952268 -0.5964920 -0.6952268 -0.6952268  
## 4 -0.7074681 -0.3021719 -0.7074681 -0.6651529 -0.7074681 -0.7074681  
## 22385 22386 22387 22388 22389 22390  
## 1 -0.6718276 -0.7150899 -0.7150899 -0.7150899 -0.7150899 -0.7150899  
## 2 -0.6786641 -0.6786641 -0.6786641 -0.6786641 -0.6786641 -0.6786641  
## 3 -0.6542981 -0.6952268 -0.6952268 -0.6952268 -0.6952268 -0.6952268  
## 4 -0.6503328 -0.7074681 -0.7074681 -0.7074681 -0.7074681 -0.7074681  
## 22391 22392 22393 22394 22395 22396  
## 1 -0.7150899 -0.7150899 -0.5423992 -0.7150899 -0.7150899 -0.7150899  
## 2 -0.6786641 -0.6786641 -0.6786641 -0.6786641 -0.6100284 -0.6786641  
## 3 -0.6952268 -0.6952268 -0.6425187 -0.6952268 -0.6074862 -0.6952268  
## 4 -0.7074681 -0.7074681 -0.3770711 -0.7074681 -0.6503328 -0.7074681  
## 22397 22398 22399 22400 22401 22403  
## 1 -0.7150899 -0.7150899 -0.7150899 -0.7150899 -0.7150899 -0.7150899  
## 2 -0.6786641 -0.6786641 -0.6786641 -0.6786641 -0.6786641 -0.6786641  
## 3 -0.6952268 -0.6715374 -0.6952268 -0.6952268 -0.6952268 -0.6952268  
## 4 -0.7074681 -0.7074681 -0.7074681 -0.7074681 -0.7074681 -0.7074681  
## 22404 22405 22406 22407 22408 22409  
## 1 -0.7150899 -0.7150899 -0.7150899 -0.6210122 -0.7150899 -0.7150899  
## 2 -0.6786641 -0.6786641 -0.6786641 -0.6786641 -0.6786641 -0.6786641  
## 3 -0.6952268 -0.6952268 -0.6952268 -0.6952268 -0.6952268 -0.6952268  
## 4 -0.7074681 -0.7074681 -0.7074681 -0.7074681 -0.7074681 -0.7074681  
## 22410  
## 1 -0.7150899  
## 2 -0.6786641  
## 3 -0.6952268  
## 4 -0.7074681  
## [ reached getOption("max.print") -- omitted 2 rows ]  
##   
## Clustering vector:  
## S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18   
## 5 5 5 5 5 5 5 5 5 4 4 4 2 2 2 3 3 3   
## S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30   
## 3 3 3 6 6 6 6 6 6 1 1 1   
##   
## Within cluster sum of squares by cluster:  
## [1] 460.4085 782.6456 1644.2145 535.7992 5126.3705 2064.2072  
## (between\_SS / total\_SS = 66.6 %)  
##   
## Available components:  
##   
## [1] "cluster" "centers" "totss" "withinss"   
## [5] "tot.withinss" "betweenss" "size" "iter"   
## [9] "ifault"

kc$cluster

## S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18   
## 5 5 5 5 5 5 5 5 5 4 4 4 2 2 2 3 3 3   
## S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30   
## 3 3 3 6 6 6 6 6 6 1 1 1

kc$size

## [1] 3 3 6 3 9 6

D=daisy(TransposeSD)  
plot(silhouette(kc$cluster, D))

