

R_File_Young_Survey

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
data <- read.csv("G:/Rutgers/MVA/Project/responses.csv")
View(data)

# The structure of the datasets
dim(data)

## [1] 1010 150

## Separate out numeric variables and categoric variables
data_cat <- data[,sapply(data, is.factor)]
data_num <- data[,!sapply(data, is.factor)]
dim(data_cat) # 11 features

## [1] 1010 11

dim(data_num) # 139 features

## [1] 1010 139

# Grouping of columns accoring to the preferences
music_data = data[,1:19]
movie_data = data[,20:31]
hobbies_data = data[,32:63]
phobia_data = data[,64:73]
health_data = data[,74:76]
traits_data = data[,77:133]
spend_data = data[,134:140]
demo_data = data[,141:150]
```

MISSING VALUES ANALYSIS

```
sum(is.na(data))

## [1] 571

colSums(is.na(data)) #suming the na values as per the column level
```

##	Music	Slow.songs.or.fast.songs
##	3	2
##	Dance	Folk
##	4	5
##	Country	Classical.music
##	5	7
##	Musical	Pop
##	2	3
##	Rock	Metal.or.Hardrock
##	6	3
##	Punk	Hiphop..Rap
##	8	4
##	Reggae..Ska	Swing..Jazz
##	7	6
##	Rock.n.roll	Alternative
##	7	7
##	Latino	Techno..Trance
##	8	7
##	Opera	Movies
##	1	6
##	Horror	Thriller
##	2	1
##	Comedy	Romantic
##	3	3
##	Sci.fi	War
##	2	2
##	Fantasy.Fairy.tales	Animated
##	3	3
##	Documentary	Western
##	8	4
##	Action	History
##	2	2
##	Psychology	Politics
##	5	1
##	Mathematics	Physics
##	3	3
##	Internet	PC
##	4	6
##	Economy.Management	Biology
##	5	6
##	Chemistry	Reading
##	10	6
##	Geography	Foreign.languages
##	9	5
##	Medicine	Law
##	5	1
##	Cars	Art.exhibitions
##	4	6
##	Religion	Countryside..outdoors
##	3	7

##	Dancing	Musical.instruments
##	3	1
##	Writing	Passive.sport
##	6	15
##	Active.sport	Gardening
##	4	7
##	Celebrities	Shopping
##	2	2
##	Science.and.technology	Theatre
##	6	8
##	Fun.with.friends	Adrenaline.sports
##	4	3
##	Pets	Flying
##	4	3
##	Storm	Darkness
##	1	2
##	Heights	Spiders
##	3	5
##	Snakes	Rats
##	0	3
##	Ageing	Dangerous.dogs
##	1	1
##	Fear.of.public.speaking	Smoking
##	1	0
##	Alcohol	Healthy.eating
##	0	3
##	Daily.events	Prioritising.workload
##	7	5
##	Writing.notes	Workaholism
##	3	5
##	Thinking.ahead	Final.judgement
##	3	7
##	Reliability	Keeping.promises
##	4	1
##	Loss.of.interest	Friends.versus.money
##	4	6
##	Funniness	Fake
##	4	1
##	Criminal.damage	Decision.making
##	7	4
##	Elections	Self.criticism
##	3	5
##	Judgment.calls	Hypochondria
##	4	4
##	Empathy	Eating.to.survive
##	5	0
##	Giving	Compassion.to.animals
##	6	7
##	Borrowed.stuff	Loneliness
##	2	1

##	Cheating.in.school	Health
##	4	1
##	Changing.the.past	God
##	2	2
##	Dreams	Charity
##	0	3
##	Number.of.friends	Punctuality
##	0	0
##	Lying	Waiting
##	0	3
##	New.environment	Mood.swings
##	2	4
##	Appearance.and.gestures	Socializing
##	3	5
##	Achievements	Responding.to.a.serious.letter
##	2	6
##	Children	Assertiveness
##	4	2
##	Getting.angry	Knowing.the.right.people
##	4	2
##	Public.speaking	Unpopularity
##	2	3
##	Life.struggles	Happiness.in.life
##	3	4
##	Energy.levels	Small...big.dogs
##	5	4
##	Personality	Finding.lost.valuables
##	4	4
##	Getting.up	Interests.or.hobbies
##	5	3
##	Parents..advice	Questionnaires.or.polls
##	2	4
##	Internet.usage	Finances
##	0	3
##	Shopping.centres	Branded.clothing
##	2	2
##	Entertainment.spending	Spending.on.looks
##	3	3
##	Spending.on.gadgets	Spending.on.healthy.eating
##	0	2
##	Age	Height
##	7	20
##	Weight	Number.of.siblings
##	20	6
##	Gender	Left...right.handed
##	0	0
##	Education	Only.child
##	0	0
##	Village...town	House...block.of.flats
##	0	0

```
# Finding missing values with more than 1%
# Create a function
pMiss <- function(x){sum(is.na(x))/length(x)*100}

perc_cat <- apply(data_cat, 2, pMiss)
perc_num <- apply(data_num, 2, pMiss)
perc_cat # this shows the percentage of missing value in the categorical data
sat
```

```
##           Smoking           Alcohol           Punctuality
##           0             0             0
##           Lying           Internet.usage           Gender
##           0             0             0
## Left...right.handed           Education           Only.child
##           0             0             0
## Village...town House...block.of.flats
##           0             0
```

```
# this shows the percentage of missing value in the numerical data
perc_num
```

```
##           Music           Slow.songs.or.fast.songs
##           0.2970297           0.1980198
##           Dance           Folk
##           0.3960396           0.4950495
##           Country           Classical.music
##           0.4950495           0.6930693
##           Musical           Pop
##           0.1980198           0.2970297
##           Rock           Metal.or.Hardrock
##           0.5940594           0.2970297
##           Punk           Hiphop..Rap
##           0.7920792           0.3960396
##           Reggae..Ska           Swing..Jazz
##           0.6930693           0.5940594
##           Rock.n.roll           Alternative
##           0.6930693           0.6930693
##           Latino           Techno..Trance
##           0.7920792           0.6930693
##           Opera           Movies
##           0.0990099           0.5940594
##           Horror           Thriller
##           0.1980198           0.0990099
##           Comedy           Romantic
##           0.2970297           0.2970297
##           Sci.fi           War
##           0.1980198           0.1980198
##           Fantasy.Fairy.tales           Animated
##           0.2970297           0.2970297
##           Documentary           Western
##           0.7920792           0.3960396
```

##	Action	History
##	0.1980198	0.1980198
##	Psychology	Politics
##	0.4950495	0.0990099
##	Mathematics	Physics
##	0.2970297	0.2970297
##	Internet	PC
##	0.3960396	0.5940594
##	Economy.Management	Biology
##	0.4950495	0.5940594
##	Chemistry	Reading
##	0.9900990	0.5940594
##	Geography	Foreign.languages
##	0.8910891	0.4950495
##	Medicine	Law
##	0.4950495	0.0990099
##	Cars	Art.exhibitions
##	0.3960396	0.5940594
##	Religion	Countryside..outdoors
##	0.2970297	0.6930693
##	Dancing	Musical.instruments
##	0.2970297	0.0990099
##	Writing	Passive.sport
##	0.5940594	1.4851485
##	Active.sport	Gardening
##	0.3960396	0.6930693
##	Celebrities	Shopping
##	0.1980198	0.1980198
##	Science.and.technology	Theatre
##	0.5940594	0.7920792
##	Fun.with.friends	Adrenaline.sports
##	0.3960396	0.2970297
##	Pets	Flying
##	0.3960396	0.2970297
##	Storm	Darkness
##	0.0990099	0.1980198
##	Heights	Spiders
##	0.2970297	0.4950495
##	Snakes	Rats
##	0.0000000	0.2970297
##	Ageing	Dangerous.dogs
##	0.0990099	0.0990099
##	Fear.of.public.speaking	Healthy.eating
##	0.0990099	0.2970297
##	Daily.events	Prioritising.workload
##	0.6930693	0.4950495
##	Writing.notes	Workaholism
##	0.2970297	0.4950495
##	Thinking.ahead	Final.judgement
##	0.2970297	0.6930693

##	Reliability	Keeping.promises
##	0.3960396	0.0990099
##	Loss.of.interest	Friends.versus.money
##	0.3960396	0.5940594
##	Funniness	Fake
##	0.3960396	0.0990099
##	Criminal.damage	Decision.making
##	0.6930693	0.3960396
##	Elections	Self.criticism
##	0.2970297	0.4950495
##	Judgment.calls	Hypochondria
##	0.3960396	0.3960396
##	Empathy	Eating.to.survive
##	0.4950495	0.0000000
##	Giving	Compassion.to.animals
##	0.5940594	0.6930693
##	Borrowed.stuff	Loneliness
##	0.1980198	0.0990099
##	Cheating.in.school	Health
##	0.3960396	0.0990099
##	Changing.the.past	God
##	0.1980198	0.1980198
##	Dreams	Charity
##	0.0000000	0.2970297
##	Number.of.friends	Waiting
##	0.0000000	0.2970297
##	New.environment	Mood.swings
##	0.1980198	0.3960396
##	Appearance.and.gestures	Socializing
##	0.2970297	0.4950495
##	Achievements	Responding.to.a.serious.letter
##	0.1980198	0.5940594
##	Children	Assertiveness
##	0.3960396	0.1980198
##	Getting.angry	Knowing.the.right.people
##	0.3960396	0.1980198
##	Public.speaking	Unpopularity
##	0.1980198	0.2970297
##	Life.struggles	Happiness.in.life
##	0.2970297	0.3960396
##	Energy.levels	Small...big.dogs
##	0.4950495	0.3960396
##	Personality	Finding.lost.valuables
##	0.3960396	0.3960396
##	Getting.up	Interests.or.hobbies
##	0.4950495	0.2970297
##	Parents..advice	Questionnaires.or.polls
##	0.1980198	0.3960396
##	Finances	Shopping.centres
##	0.2970297	0.1980198

```
##           Branded.clothing      Entertainment.spending
##           0.1980198             0.2970297
##           Spending.on.looks      Spending.on.gadgets
##           0.2970297             0.0000000
##           Spending.on.healthy.eating      Age
##           0.1980198             0.6930693
##           Height                  Weight
##           1.9801980             1.9801980
##           Number.of.siblings
##           0.5940594
```

IMPUTE MISSING VALUES : Imputation based on predictive method using features

```
# Numeric variable imputation
```

```
library(mice)
```

```
## Warning: package 'mice' was built under R version 3.6.2
```

```
## Loading required package: lattice
```

```
## Warning: package 'lattice' was built under R version 3.6.2
```

```
##
```

```
## Attaching package: 'mice'
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      cbind, rbind
```

```
# methods(mice)
```

```
impu_num = mice(data_num, m=1, method = 'pmm', maxit = 1, seed = 200)
```

```
##
```

```
## iter imp variable
```

```
## 1 1 Music Slow.songs.or.fast.songs Dance Folk Country
Classical.music Musical Pop Rock Metal.or.Hardrock Punk Hiphop..Rap
Reggae..Ska Swing..Jazz Rock.n.roll Alternative Latino Techno..Trance
Opera Movies Horror Thriller Comedy Romantic Sci.fi War
Fantasy.Fairy.tales Animated Documentary Western Action History
Psychology Politics Mathematics Physics Internet PC Economy.Management
Biology Chemistry Reading Geography Foreign.languages Medicine Law
Cars Art.exhibitions Religion Countryside..outdoors Dancing
Musical.instruments Writing Passive.sport Active.sport Gardening
Celebrities Shopping Science.and.technology Theatre Fun.with.friends
Adrenaline.sports Pets Flying Storm Darkness Heights Spiders Rats
Ageing Dangerous.dogs Fear.of.public.speaking Healthy.eating Daily.events
Prioritising.workload Writing.notes Workaholism Thinking.ahead
Final.judgement Reliability Keeping.promises Loss.of.interest
Friends.versus.money Funniness Fake Criminal.damage Decision.making
Elections Self.criticism Judgment.calls Hypochondria Empathy Giving
Compassion.to.animals Borrowed.stuff Loneliness Cheating.in.school Health
```



```

Changing.the.past God Charity Waiting New.environment Mood.swings
Appearence.and.gestures Socializing Achievements
Responding.to.a.serious.letter Children Assertiveness Getting.angry
Knowing.the.right.people Public.speaking Unpopularity Life.struggles
Happiness.in.life Energy.levels Small...big.dogs Personality
Finding.lost.valuables Getting.up Interests.or.hobbies Parents..advice
Questionnaires.or.polls Finances Shopping.centres Branded.clothing
Entertainment.spending Spending.on.looks Spending.on.healthy.eating Age
Height Weight Number.of.siblings

```

```

# summary(impu_num)
impu_num$imp$Age # Imputed data at each iterations

```

```

##      1
## 138 20
## 143 22
## 463 19
## 550 22
## 736 25
## 903 18
## 961 20

```

```

impu_num$imp$Weight

```

```

##      1
## 138 74
## 143 55
## 165 92
## 210 89
## 277 65
## 406 63
## 454 64
## 496 51
## 510 57
## 552 70
## 559 58
## 647 68
## 704 76
## 713 64
## 791 57
## 843 50
## 876 88
## 890 60
## 903 58
## 961 60

```

Parameters: 'pmm' - predictive mean matching method m=5 - no.of multiple imputed datasets maxit = 10 - no.of iterations The computational time is dependent on the 'maxit' - for me it took more than 20 min

```
# Get the numeirc imputed data  
impu_num_compl = complete(impu_num,action = 1)
```

Imputing categorical missing variables

```
impu_cat = mice(data_cat, m=5, maxit = 10, seed = 200, method = 'pmm')  
  
##  
##  iter imp variable  
##    1    1  
##    1    2  
##    1    3  
##    1    4  
##    1    5  
##    2    1  
##    2    2  
##    2    3  
##    2    4  
##    2    5  
##    3    1  
##    3    2  
##    3    3  
##    3    4  
##    3    5  
##    4    1  
##    4    2  
##    4    3  
##    4    4  
##    4    5  
##    5    1  
##    5    2  
##    5    3  
##    5    4  
##    5    5  
##    6    1  
##    6    2  
##    6    3  
##    6    4  
##    6    5  
##    7    1  
##    7    2  
##    7    3  
##    7    4  
##    7    5  
##    8    1  
##    8    2  
##    8    3  
##    8    4  
##    8    5  
##    9    1
```

```
## 9 2
## 9 3
## 9 4
## 9 5
## 10 1
## 10 2
## 10 3
## 10 4
## 10 5

# Get categoric imputed data
impu_cat_compl = complete(impu_cat, 1)

sum(is.na(impu_num_compl)) # No missing values

## [1] 0

sum(is.na(impu_cat_compl)) # No missing values

## [1] 0
```

Outlier detection:

```
library(outliers)

outlier(data_num)
```

##	Music	Slow.songs.or.fast.songs
##	1	1
##	Dance	Folk
##	1	5
##	Country	Classical.music
##	5	5
##	Musical	Pop
##	5	1
##	Rock	Metal.or.Hardrock
##	1	5
##	Punk	Hiphop..Rap
##	5	5
##	Reggae..Ska	Swing..Jazz
##	5	5
##	Rock.n.roll	Alternative
##	1	5
##	Latino	Techno..Trance
##	5	5
##	Opera	Movies
##	5	1
##	Horror	Thriller
##	5	1
##	Comedy	Romantic
##	1	1
##	Sci.fi	War

##	1	1
##	Fantasy.Fairy.tales	Animated
##	1	1
##	Documentary	Western
##	1	5
##	Action	History
##	1	1
##	Psychology	Politics
##	1	5
##	Mathematics	Physics
##	5	5
##	Internet	PC
##	1	1
##	Economy.Management	Biology
##	5	5
##	Chemistry	Reading
##	5	1
##	Geography	Foreign.languages
##	1	1
##	Medicine	Law
##	5	5
##	Cars	Art.exhibitions
##	5	5
##	Religion	Countryside..outdoors
##	5	1
##	Dancing	Musical.instruments
##	5	5
##	Writing	Passive.sport
##	5	1
##	Active.sport	Gardening
##	1	5
##	Celebrities	Shopping
##	5	1
##	Science.and.technology	Theatre
##	1	1
##	Fun.with.friends	Adrenaline.sports
##	2	5
##	Pets	Flying
##	1	5
##	Storm	Darkness
##	5	5
##	Heights	Spiders
##	5	5
##	Snakes	Rats
##	1	5
##	Ageing	Dangerous.dogs
##	5	1
##	Fear.of.public.speaking	Healthy.eating
##	5	1
##	Daily.events	Prioritising.workload

##	1	5
##	Writing.notes	Workaholism
##	1	5
##	Thinking.ahead	Final.judgement
##	1	5
##	Reliability	Keeping.promises
##	1	1
##	Loss.of.interest	Friends.versus.money
##	5	1
##	Funniness	Fake
##	1	5
##	Criminal.damage	Decision.making
##	5	1
##	Elections	Self.criticism
##	1	1
##	Judgment.calls	Hypochondria
##	1	5
##	Empathy	Eating.to.survive
##	1	5
##	Giving	Compassion.to.animals
##	5	1
##	Borrowed.stuff	Loneliness
##	1	5
##	Cheating.in.school	Health
##	1	1
##	Changing.the.past	God
##	5	1
##	Dreams	Charity
##	1	5
##	Number.of.friends	Waiting
##	1	5
##	New.environment	Mood.swings
##	1	1
##	Appearance.and.gestures	Socializing
##	1	1
##	Achievements	Responding.to.a.serious.letter
##	5	1
##	Children	Assertiveness
##	1	1
##	Getting.angry	Knowing.the.right.people
##	1	1
##	Public.speaking	Unpopularity
##	1	1
##	Life.struggles	Happiness.in.life
##	1	1
##	Energy.levels	Small...big.dogs
##	1	5
##	Personality	Finding.lost.valuables
##	1	5
##	Getting.up	Interests.or.hobbies

```
##          1          1
##      Parents..advice      Questionnaires.or.polls
##          1          5
##          Finances          Shopping.centres
##          1          1
##      Branded.clothing      Entertainment.spending
##          1          1
##      Spending.on.looks      Spending.on.gadgets
##          1          5
##      Spending.on.healthy.eating      Age
##          1          30
##          Height          Weight
##          62          165
##      Number.of.siblings
##          10
```

Demographic category - Height, Weight, Age, No.of siblings have maximum no.of outliers

```
library(ggplot2)
```

The `boxplot.stats` function; is a ancillary function that produces statistics for drawing boxplots. It returns among other information a vector `stats` with five elements: the extreme of the lower whisker, the lower 'hinge', the median, the upper 'hinge' and the extreme of the upper whisker, the extreme of the whiskers are the adjacent values (last non-missing value, i.e. every value beyond is an outlier).

```
id1 = boxplot.stats(impu_num_compl$Weight)

id1$stats
## [1]  41  55  64  75 105

id1$stats[1] #The Lower adjacent value
## [1] 41

id1$stats[5] # The upper adjacent value
## [1] 105

id2 = boxplot.stats(impu_num_compl$Height)

id2$stats[1] #The Lower adjacent value
## [1] 148

id2$stats[5] # The upper adjacent value
## [1] 197
```

```

id3 = boxplot.stats(impu_num_compl$Age)

id3$stats[1] #The lower adjacent value
## [1] 15

id3$stats[5] # The upper adjacent value
## [1] 26

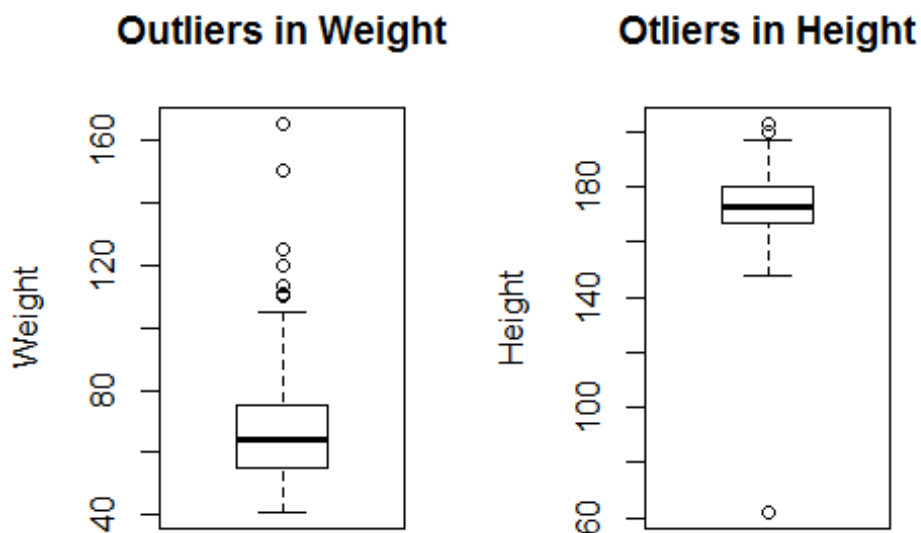
id4 = boxplot.stats(impu_num_compl$Number.of.siblings)

id4$stats[1] #The lower adjacent value
## [1] 0

id4$stats[5] # The upper adjacent value
## [1] 3

# Boxplot
par(mfrow=c(1,2))
boxplot(impu_num_compl$Weight, main = 'Outliers in Weight', ylab = 'Weight')
boxplot(impu_num_compl$Height, main = 'Otliers in Height', ylab = 'Height')

```

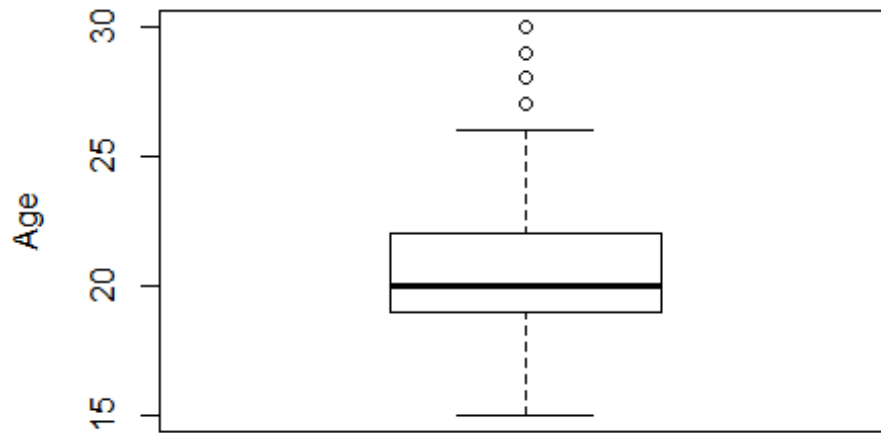


```

boxplot(impu_num_compl$Age, main = 'Outliers in Age', ylab = 'Age')

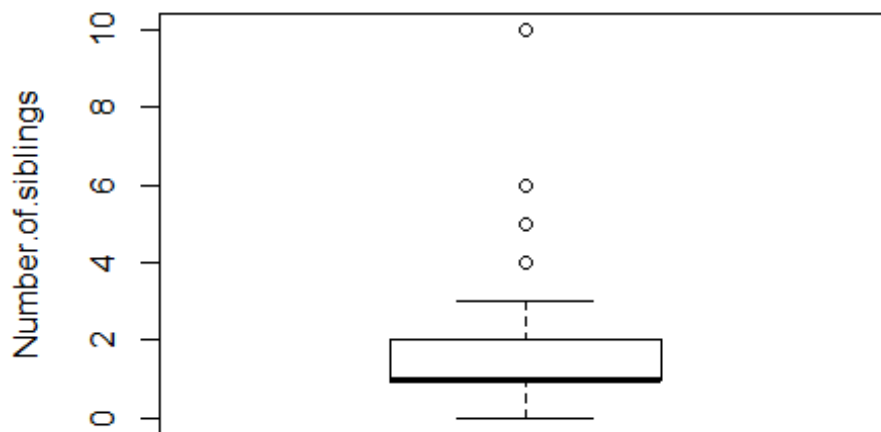
```

Outliers in Age



```
boxplot(impu_num_compl$Number.of.siblings , main = 'Otliers in  
Number.of.siblings', ylab = 'Number.of.siblings')
```

Otliers in Number.of.siblings



You can get the actual values of the outliers with this

```
boxplot(impu_num_compl$Weight, plot=FALSE)$out
```

```
## [1] 120 110 111 120 113 125 165 120 150
```

```
boxplot(impu_num_compl$Height, plot=FALSE)$out
```

```
## [1] 200 200 203 62 203 200
```

no of rows having outliers

```
Outlier_height = boxplot(impu_num_compl$Height, plot=FALSE)$out
```

```
impu_num_compl[which(impu_num_compl$Height %in% Outlier_height),]
```

```
##      Music Slow.songs.or.fast.songs Dance Folk Country Classical.music
```

```
Musical
```

```
## 98      5              3      2      1              1              1
```

```
1
```

```
## 221      5              3      4      3              3              4
```

```
2
```

```
## 548      5              4      1      4              2              5
```

```
3
```

```
## 677      5              4      2      2              1              2
```

```
2
```

```
## 800      5              3      1      2              3              4
```

```
5
```

```
## 993      4              4      4      1              4              4
```

```
1
```

```
##      Pop Rock Metal.or.Hardrock Punk Hiphop..Rap Reggae..Ska Swing..Jazz
```

```
## 98      2      1              1      1              5              2              2
```

```
## 221      1      3              1      2              5              4              4
```

```
## 548      1      4              5      2              2              2              1
```

```
## 677      1      2              2      1              2              1              2
```

```
## 800      2      4              5      4              1              1              2
```

```
## 993      3      4              4      3              2              3              2
```

```
##      Rock.n.roll Alternative Latino Techno..Trance Opera Movies Horror
```

```
Thriller
```

```
## 98              1              1      1              2      1      5      2
```

```
3
```

```
## 221              2              5      3              1      3      5      3
```

```
3
```

```
## 548              4              3      1              1      5      5      3
```

```
5
```

```
## 677              1              5      2              2      2      5      1
```

```
2
```

```
## 800              4              4      2              2      4      5      1
```

```
1
```

```
## 993              1              1      2              5      2      4      4
```

```
4
```

```
##      Comedy Romantic Sci.fi War Fantasy.Fairy.tales Animated Documentary
```

```
Western
```

## 98	5	3	5	5		3	5	5
3								
## 221	5	3	2	3		4	5	4
3								
## 548	5	2	2	4		4	4	5
3								
## 677	2	3	1	2		3	4	5
1								
## 800	4	3	4	4		3	4	5
3								
## 993	4	3	5	3		4	4	4
3								
##	Action	History	Psychology	Politics	Mathematics	Physics	Internet	PC
## 98	5	3		2	2	4	1	5 5
## 221	4	3		3	1	1	1	3 4
## 548	4	5		3	5	1	1	3 3
## 677	3	3		1	1	1	1	5 1
## 800	3	4		2	3	4	3	5 5
## 993	4	5		2	3	5	5	4 3
##	Economy.Management	Biology	Chemistry	Reading	Geography			
##	Foreign.languages							
## 98			2	1	1	3	1	
4								
## 221			1	5	5	3	1	
5								
## 548			1	2	1	5	5	
5								
## 677			1	1	1	1	3	
4								
## 800			2	3	2	5	3	
4								
## 993			1	4	4	2	4	
2								
##	Medicine	Law	Cars	Art.exhibitions	Religion	Countryside..outdoors		
##	Dancing							
## 98		1	2	2		1	4	4
1								
## 221		3	2	4		3	2	4
2								
## 548		2	2	1		4	4	3
1								
## 677		1	5	2		3	1	4
1								
## 800		3	2	3		4	2	4
2								
## 993		1	1	2		1	1	1
1								
##	Musical.instruments	Writing	Passive.sport	Active.sport	Gardening			
## 98			1	1		1	5	2
## 221			5	1		5	5	3

## 548		5	4		5		5	2
## 677		1	1		5		5	2
## 800		3	3		3		2	4
## 993		1	5		4		1	1
##	Celebrities	Shopping	Science.and.technology	Theatre	Fun.with.friends			
## 98		1		4	1			3
## 221		1	3		4	2		5
## 548		1	1		2	5		5
## 677		4	3		3	5		5
## 800		3	3		4	5		4
## 993		1	1		5	2		5
##	Adrenaline.sports	Pets	Flying Storm	Darkness	Heights	Spiders	Snakes	
##	Rats							
## 98		3	5	1	1	2	3	2
1								4
## 221		3	5	1	3	2	2	2
2								3
## 548		5	4	1	1	2	3	1
1								1
## 677		2	3	1	2	2	2	3
4								3
## 800		3	5	2	1	3	2	3
2								3
## 993		1	1	3	1	1	5	5
2								3
##	Ageing	Dangerous.dogs	Fear.of.public.speaking	Healthy.eating				
##	Daily.events							
## 98	1		1		2		3	
1								
## 221	1		4		3		4	
2								
## 548	1		4		1		2	
5								
## 677	3		3		3		4	
2								
## 800	2		2		4		3	
3								
## 993	2		3		4		1	
3								
##	Prioritising.workload	Writing.notes	Workaholism	Thinking.ahead				
## 98		1	1	3		2		
## 221		2	2	1		2		
## 548		2	1	2		2		
## 677		1	2	1		2		
## 800		3	2	4		3		
## 993		1	1	1		3		
##	Final.judgement	Reliability	Keeping.promises	Loss.of.interest				
## 98		1	4	5		5		
## 221		2	3	5		2		
## 548		1	4	4		1		

## 677	3	3	3	4
## 800	1	4	4	2
## 993	3	3	5	1
##	Friends.versus.money	Funniness	Fake	Criminal.damage
## 98	3	4	4	5
## 221	4	4	2	5
## 548	5	5	1	1
## 677	4	2	2	5
## 800	4	3	3	2
## 993	1	2	1	1
##	Elections	Self.criticism	Judgment.calls	Hypochondria
## 98	5	4	3	1
## 221	4	2	4	1
## 548	5	5	5	1
## 677	1	2	4	2
## 800	2	4	4	2
## 993	5	2	3	1
##	Eating.to.survive	Giving	Compassion.to.animals	Borrowed.stuff
## 98	4	1	2	5
## 221	2	3	5	5
## 548	1	1	5	5
## 677	1	2	1	2
## 800	2	3	5	4
## 993	1	4	2	4
##	Cheating.in.school	Health	Changing.the.past	God
## 98	5	1	5	5
## 221	5	3	1	2
## 548	5	2	2	1
## 677	5	3	4	4
## 800	3	3	2	2
## 993	1	3	4	5
##	Number.of.friends	Waiting	New.environment	Mood.swings
## 98	2	4	5	5
## 221	4	2	4	3
## 548	3	5	5	1
## 677	3	3	3	5
## 800	2	4	2	2
## 993	3	2	2	4
##	Appearance.and.gestures	Socializing	Achievements	
## 98	2	3	4	
## 221	3	4	3	
## 548	1	4	2	
## 677	3	3	3	

## 800	3	2	3	
## 993	2	1	3	
##	Responding.to.a.serious.letter	Children	Assertiveness	Getting.angry
## 98	3	5	5	2
## 221	4	3	3	2
## 548	3	4	2	1
## 677	4	4	1	2
## 800	4	3	3	2
## 993	3	3	5	3
##	Knowing.the.right.people	Public.speaking	Unpopularity	Life.struggles
## 98	4	2	3	1
## 221	4	5	3	1
## 548	3	1	3	1
## 677	4	2	3	3
## 800	4	4	3	4
## 993	3	5	3	1
##	Happiness.in.life	Energy.levels	Small...big.dogs	Personality
## 98	3	3	3	3
## 221	5	4	3	4
## 548	4	4	3	3
## 677	3	2	2	4
## 800	3	2	2	3
## 993	2	3	4	3
##	Finding.lost.valuables	Getting.up	Interests.or.hobbies	Parents..advice
## 98	1	1	5	3
## 221	3	4	5	4
## 548	4	4	5	4
## 677	4	2	3	3
## 800	4	2	2	3
## 993	1	5	3	3
##	Questionnaires.or.polls	Finances	Shopping.centres	Branded.clothing
## 98	1	2	1	1
## 221	3	2	3	2
## 548	3	3	2	1
## 677	1	3	4	2
## 800	3	4	3	3
## 993	2	1	1	1
##	Entertainment.spending	Spending.on.looks	Spending.on.gadgets	
## 98	5	1	5	
## 221	5	4	2	
## 548	3	1	1	
## 677	2	4	2	
## 800	2	3	4	
## 993	5	1	1	
##	Spending.on.healthy.eating	Age	Height	Weight
## 98	2	19	200	75
## 221	3	18	200	90
## 548	4	21	203	80
## 677	4	20	62	55
				Number.of.siblings
## 98				1
## 221				2
## 548				2
## 677				2

```
## 800          4  18    203    89          2
## 993          4  30    200   150          1

outlier_siblings = boxplot(impu_num_compl$Number.of.siblings, plot=FALSE)$out
impu_num_compl[which(impu_num_compl$Number.of.siblings %in%
outlier_siblings),]

##      Music Slow.songs.or.fast.songs Dance Folk Country Classical.music
Musical
## 13      5              3      1      2          1              4
3
## 33      5              5      3      1          3              2
3
## 35      5              4      3      2          1              3
4
## 54      5              3      4      4          3              4
5
## 92      5              5      1      5          1              2
5
## 125     4              4      1      4          5              5
5
## 139     5              3      2      3          3              4
5
## 150     2              3      1      3          1              3
4
## 230     4              3      4      2          4              1
1
## 260     2              3      3      3          3              2
2
## 366     5              3      2      2          3              4
2
## 372     5              3      5      5          5              5
5
## 443     5              3      4      2          4              3
3
## 476     5              3      3      2          5              4
5
## 503     5              4      4      3          2              4
2
## 525     5              3      2      1          2              4
2
## 571     5              3      3      1          1              2
1
## 620     5              1      3      3          1              5
4
## 683     4              4      4      2          3              3
3
## 695     5              3      3      3          4              5
2
## 743     5              3      1      3          4              5
```

3									
## 751	5			3	5	5	2		5
3									
## 804	5			5	2	1	1		2
4									
## 847	5			3	5	2	2		3
3									
## 849	5			2	2	1	1		3
1									
## 854	5			3	4	4	2		3
4									
## 931	5			3	3	2	1		2
3									
## 938	5			3	4	1	1		5
4									
## 941	5			3	2	1	1		3
3									
## 958	5			4	2	1	1		1
2									
## 1007	4			4	5	1	3		4

1									
##	Pop	Rock	Metal.or.Hardrock	Punk	Hiphop..Rap	Reggae..Ska	Swing..Jazz		
## 13	3	5		4	2	3	1		1
## 33	3	4		3	4	4	2		2
## 35	4	5		3	4	2	3		3
## 54	4	3		2	2	3	3		3
## 92	3	5		5	5	1	5		1
## 125	3	5		3	3	1	2		4
## 139	2	1		1	1	3	3		4
## 150	1	2		2	2	3	2		1
## 230	4	3		1	4	2	5		3
## 260	3	4		2	2	2	1		3
## 366	1	5		4	5	1	5		4
## 372	5	5		3	3	2	2		5
## 443	5	4		1	4	3	4		4
## 476	3	5		4	4	3	4		3
## 503	2	5		3	4	3	3		4
## 525	2	5		5	5	2	5		2
## 571	3	3		1	2	2	1		1
## 620	3	3		2	2	3	2		3
## 683	4	4		3	4	3	4		3
## 695	3	5		4	2	3	3		5
## 743	2	4		2	1	3	4		2
## 751	3	3		1	1	5	1		5
## 804	3	5		4	5	1	1		2
## 847	4	2		1	1	4	2		4
## 849	3	5		3	4	1	4		2
## 854	3	3		1	1	2	3		2
## 931	3	2		2	3	5	3		1
## 938	5	5		4	5	4	5		5

## 941	3	3		1	1	4	4	5
## 958	2	2		1	1	5	1	2
## 1007	4	1		1	4	1	1	2
##	Rock.n.roll Alternative Latino Techno..Trance Opera Movies Horror							
Thriller								
## 13		4		3	2		1	2
5								
## 33		4		4	2		3	1
5								
## 35		4		4	2		1	1
3								
## 54		3		3	5		2	5
3								
## 92		3		1	1		1	1
4								
## 125		5		2	3		1	3
5								
## 139		4		2	3		1	2
2								
## 150		1		1	1		1	2
2								
## 230		3		2	2		3	3
3								
## 260		5		2	5		1	5
1								
## 366		5		5	1		2	4
5								
## 372		5		3	5		2	5
2								
## 443		4		2	2		2	1
4								
## 476		5		3	4		1	2
3								
## 503		5		3	1		3	3
5								
## 525		3		5	2		1	3
4								
## 571		3		2	2		1	1
2								
## 620		3		2	3		2	5
4								
## 683		4		3	2		5	2
4								
## 695		5		1	5		4	3
5								
## 743		3		4	5		5	2
3								
## 751		4		5	5		1	4
4								
## 804		3		2	1		1	2

4								
## 847		2		2	3		5	3
3								
## 849		3		5	1		2	1
2								
## 854		2		2	3		1	4
3								
## 931		1		1	3		3	2
2								
## 938		5		5	5		2	5
3								
## 941		2		2	1		5	1
2								
## 958		1		1	2		2	1
4								
## 1007		3		1	3		4	1
5								
##	Comedy	Romantic	Sci.fi	War	Fantasy	Fairy.tales	Animated	Documentary
## 13	4		3	1	4		5	3
## 33	5		5	2	3		5	5
## 35	5		4	4	2		2	5
## 54	5		5	1	5		5	3
## 92	5		5	3	1		5	5
## 125	5		4	5	5		5	5
## 139	5		5	1	3		5	4
## 150	4		2	5	5		4	4
## 230	4		1	2	2		3	2
## 260	5		1	1	4		3	1
## 366	2		2	1	5		2	2
## 372	5		5	3	2		5	5
## 443	5		4	3	3		5	5
## 476	5		5	2	3		5	5
## 503	4		2	5	5		5	5
## 525	3		3	3	3		4	5
## 571	5		3	1	5		3	3
## 620	4		2	2	5		3	3
## 683	4		2	4	5		5	4
## 695	5		3	4	5		4	4
## 743	5		4	3	5		5	5
## 751	5		4	4	4		5	5
## 804	5		4	1	2		3	2
## 847	5		5	5	2		2	4
## 849	3		4	4	2		1	2
## 854	5		5	1	3		5	3
## 931	5		5	2	3		5	5
## 938	5		5	4	2		4	5
## 941	5		3	5	5		4	3
## 958	5		4	4	4		3	2
## 1007	5		1	5	5		1	5
##	Western Action	History	Psychology	Politics	Mathematics	Physics		

Internet PC							
## 13	1	1	4	4	4	1	1
3 2							
## 33	2	4	4	5	3	1	1
5 4							
## 35	1	5	4	5	4	3	1
5 4							
## 54	1	5	3	3	4	1	1
3 2							
## 92	1	3	1	1	1	1	1
5 5							
## 125	5	4	4	4	4	1	3
4 5							
## 139	3	2	2	3	2	1	1
3 1							
## 150	2	2	2	3	1	5	5
3 5							
## 230	3	5	2	1	1	4	2
5 5							
## 260	1	1	5	4	4	1	2
2 2							
## 366	3	4	5	5	4	1	1
3 2							
## 372	3	2	2	5	1	5	3
3 3							
## 443	3	3	2	2	3	3	2
3 4							
## 476	1	2	4	5	3	3	2
4 2							
## 503	5	5	2	1	4	3	1
5 5							
## 525	1	1	3	4	1	3	2
5 2							
## 571	1	5	4	3	2	1	1
5 3							
## 620	2	4	3	2	2	5	5
5 4							
## 683	3	5	3	3	2	4	2
4 4							
## 695	2	4	5	5	5	5	3
5 5							
## 743	5	5	3	5	3	4	3
5 4							
## 751	3	3	4	5	2	4	3
3 3							
## 804	1	2	3	3	3	1	1
5 3							
## 847	2	3	2	1	1	2	2
5 4							
## 849	1	3	1	5	2	1	2

5	3							
## 854	4	3	3	3	2	3	3	
4	3							
## 931	2	3	3	2	2	1	2	
5	4							
## 938	5	5	3	5	1	5	4	
5	3							
## 941	4	5	4	3	2	3	3	
5	5							
## 958	2	5	3	3	3	1	1	
4	4							
## 1007	2	5	4	1	1	5	4	
5	5							
##	Economy.Management Biology Chemistry Reading Geography Foreign.languages							
## 13		1	5	5	5	3		
5								
## 33		3	1	1	3	3		
3								
## 35		4	3	1	3	2		
5								
## 54		2	4	2	4	5		
5								
## 92		1	5	1	1	1		
5								
## 125		3	2	2	4	4		
4								
## 139		2	5	4	5	3		
5								
## 150		3	2	3	2	3		
3								
## 230		2	3	2	1	5		
3								
## 260		2	4	3	5	4		
4								
## 366		4	4	4	4	5		
5								
## 372		3	5	5	5	2		
3								
## 443		2	3	3	2	3		
3								
## 476		2	3	2	5	3		
3								
## 503		4	1	1	1	1		
4								
## 525		1	5	4	3	4		
3								
## 571		2	2	1	1	4		
5								
## 620		2	3	2	1	5		

4						
## 683		2	2	1	3	4
3						
## 695		3	2	2	2	4
5						
## 743		5	4	1	5	4
5						
## 751		2	3	2	2	2
2						
## 804		2	2	1	2	2
3						
## 847		3	1	1	3	2
5						
## 849		5	2	2	1	2
3						
## 854		3	3	3	4	4
3						
## 931		3	2	1	1	3
3						
## 938		2	4	2	5	5
4						
## 941		1	2	1	2	1
3						
## 958		1	1	1	1	1
1						
## 1007		2	2	1	1	2
2						
##	Medicine	Law	Cars	Art.exhibitions	Religion	Countryside..outdoors
Dancing						
## 13	5	2	3	1	1	5
3						
## 33	1	2	3	4	2	2
1						
## 35	3	2	5	3	5	5
2						
## 54	4	3	5	5	5	4
5						
## 92	5	1	1	1	1	5
5						
## 125	4	4	4	5	3	5
2						
## 139	5	1	1	1	5	5
2						
## 150	2	1	2	1	3	4
1						
## 230	2	2	2	2	2	5
2						
## 260	3	4	4	2	3	5
5						
## 366	4	4	5	4	4	5

1						
## 372	5	2	2	3	5	5
5						
## 443	2	2	2	4	3	3
2						
## 476	2	3	1	2	2	4
2						
## 503	1	2	5	1	1	2
1						
## 525	5	1	1	3	3	5
2						
## 571	1	1	5	1	1	5
1						
## 620	2	3	4	1	1	2
1						
## 683	2	2	4	2	4	4
1						
## 695	1	3	4	3	5	4
3						
## 743	4	4	2	3	5	5
4						
## 751	5	3	5	5	5	2
5						
## 804	1	1	3	3	2	4
1						
## 847	2	1	3	2	2	3
5						
## 849	1	2	1	2	1	2
2						
## 854	3	3	3	3	3	5
3						
## 931	3	2	4	3	3	4
2						
## 938	3	2	3	3	3	2
2						
## 941	1	1	1	2	4	5
1						
## 958	1	1	5	1	1	3
1						
## 1007	1	1	5	1	5	5
5						
##	Musical.instruments	Writing	Passive.sport	Active.sport	Gardening	
## 13		4	1	5	3	4
## 33		2	1	2	2	1
## 35		3	2	5	3	1
## 54		4	1	5	5	3
## 92		1	1	5	3	1
## 125		5	3	4	5	1
## 139		5	3	2	4	1
## 150		1	1	2	3	1

## 230	4	1	5	3	2
## 260	2	2	5	2	1
## 366	3	2	4	3	1
## 372	5	3	2	5	3
## 443	5	2	3	4	2
## 476	5	3	3	3	1
## 503	3	1	2	3	1
## 525	1	1	5	1	1
## 571	2	1	5	5	1
## 620	1	1	2	1	1
## 683	1	1	4	1	1
## 695	5	1	4	5	1
## 743	3	4	3	5	1
## 751	1	3	2	5	4
## 804	4	1	4	5	3
## 847	2	1	2	2	2
## 849	2	1	5	1	2
## 854	3	4	5	3	4
## 931	4	1	3	1	1
## 938	5	1	5	2	1
## 941	5	1	5	1	1
## 958	1	1	2	1	1
## 1007	5	1	1	5	5
##	Celebrities	Shopping	Science.and.technology	Theatre	Fun.with.friends
## 13	3	2	3	2	4
## 33	4	5	3	3	5
## 35	1	3	5	3	5
## 54	1	3	3	5	5
## 92	3	3	1	3	5
## 125	1	1	5	4	4
## 139	2	3	2	2	4
## 150	1	2	4	2	3
## 230	1	2	4	2	4
## 260	1	1	3	5	5
## 366	1	3	2	3	4
## 372	1	3	3	3	5
## 443	4	3	4	4	5
## 476	4	2	2	3	5
## 503	1	4	5	1	5
## 525	5	3	1	4	5
## 571	3	5	4	3	4
## 620	1	1	5	1	5
## 683	2	3	4	3	4
## 695	2	2	5	2	5
## 743	1	3	4	4	5
## 751	2	5	5	5	5
## 804	3	3	1	3	5
## 847	1	5	2	2	5
## 849	1	4	3	1	5
## 854	3	4	3	5	5

## 931	3	5			3	2		5
## 938	1	3			3	4		5
## 941	1	3			2	2		5
## 958	1	2			4	2		4
## 1007	1	2			5	1		5
##	Adrenaline.sports	Pets	Flying	Storm	Darkness	Heights	Spiders	Snakes
Rats								
## 13		1	2	1	1	1	1	3
1								
## 33		1	5	3	5	5	5	5
5								
## 35		5	1	1	2	2	1	2
2								
## 54		3	1	3	1	1	5	1
3								
## 92		4	1	1	3	1	1	5
5								
## 125		5	4	1	1	1	2	1
1								
## 139		1	3	1	1	1	1	2
2								
## 150		3	1	1	1	2	3	2
1								
## 230		5	1	1	1	1	1	2
1								
## 260		1	1	1	1	1	3	1
1								
## 366		5	1	1	1	1	1	1
1								
## 372		2	3	2	4	1	3	3
2								
## 443		2	5	2	1	2	2	4
3								
## 476		2	5	2	3	5	1	4
3								
## 503		3	1	2	1	1	2	3
1								
## 525		5	5	1	2	3	2	1
1								
## 571		4	3	1	1	1	4	5
4								
## 620		3	1	1	1	2	2	5
2								
## 683		3	5	3	1	1	2	5
3								
## 695		3	1	2	2	1	1	5
2								
## 743		4	1	1	1	2	4	2
3								
## 751		5	1	1	1	1	1	1

1									
## 804		5	3	1	1	1	2	5	5
4									
## 847		2	5	5	2	2	4	5	5
5									
## 849		4	2	1	1	1	1	1	1
1									
## 854		3	5	1	1	1	1	1	2
3									
## 931		2	1	3	3	3	4	5	5
5									
## 938		4	5	1	3	4	2	3	5
4									
## 941		3	4	1	3	4	5	3	5
1									
## 958		1	1	1	1	1	3	3	3
1									
## 1007		1	5	1	1	1	1	1	1
1									
##	Ageing	Dangerous.dogs	Fear.of.public.speaking	Healthy.eating					
Daily.events									
## 13	5		2			2		3	
4									
## 33	1		5			2		3	
3									
## 35	1		2			3		3	
5									
## 54	1		3			5		3	
3									
## 92	5		5			1		3	
3									
## 125	1		2			1		4	
4									
## 139	1		4			3		1	
4									
## 150	2		3			4		2	
2									
## 230	3		2			2		2	
2									
## 260	1		5			1		4	
4									
## 366	3		1			1		4	
4									
## 372	1		5			1		1	
2									
## 443	3		3			2		3	
3									
## 476	1		2			3		2	
3									
## 503	2		3			2		3	

2				
## 525	3	2	5	2
3				
## 571	5	4	1	5
3				
## 620	4	3	1	1
3				
## 683	2	4	3	2
3				
## 695	1	2	1	4
3				
## 743	1	3	2	3
5				
## 751	1	2	1	4
5				
## 804	3	3	1	2
3				
## 847	4	5	3	3
3				
## 849	1	1	1	4
3				
## 854	3	4	1	3
3				
## 931	3	5	4	4
3				
## 938	4	3	4	3
3				
## 941	5	3	4	1
3				
## 958	1	2	3	1
1				
## 1007	2	5	5	3
1				
##	Prioritising.workload	Writing.notes	Workaholism	Thinking.ahead
## 13		3	5	4
## 33		1	1	1
## 35		3	1	5
## 54		3	5	2
## 92		3	5	5
## 125		2	2	3
## 139		2	2	1
## 150		3	2	3
## 230		1	2	1
## 260		5	3	4
## 366		3	1	3
## 372		3	3	4
## 443		3	4	3
## 476		1	2	2
## 503		4	2	5
## 525		3	2	3

## 571	3	2	3	3
## 620	3	5	5	4
## 683	1	1	2	2
## 695	3	4	3	5
## 743	2	5	2	2
## 751	3	4	4	3
## 804	1	4	1	4
## 847	3	4	3	3
## 849	3	3	4	2
## 854	5	5	3	3
## 931	2	3	2	2
## 938	2	4	1	2
## 941	2	1	1	3
## 958	2	1	1	3
## 1007	3	1	5	5

##	Final.judgement	Reliability	Keeping.promises	Loss.of.interest
----	-----------------	-------------	------------------	------------------

## 13	1	5	5	4
## 33	1	1	1	1
## 35	5	4	4	4
## 54	3	5	5	1
## 92	5	3	5	3
## 125	2	4	4	1
## 139	2	5	5	5
## 150	3	2	2	2
## 230	3	3	5	2
## 260	4	3	3	1
## 366	5	4	5	2
## 372	3	4	5	1
## 443	3	4	5	2
## 476	3	2	4	2
## 503	3	5	5	2
## 525	3	4	5	1
## 571	1	4	4	5
## 620	1	4	3	1
## 683	3	1	2	3
## 695	5	5	4	2
## 743	5	2	5	5
## 751	2	4	4	2
## 804	5	5	5	2
## 847	5	5	3	3
## 849	3	3	1	1
## 854	3	4	4	2
## 931	3	4	3	1
## 938	3	4	5	2
## 941	5	1	1	4
## 958	4	3	3	2
## 1007	5	5	4	1

##	Friends.versus.money	Funniness	Fake	Criminal.damage	Decision.making
----	----------------------	-----------	------	-----------------	-----------------

## 13	4	3	1	2	5
## 33	1	1	1	3	1

## 35		5	5	1	1	3
## 54		5	1	1	1	3
## 92		5	3	1	1	5
## 125		2	3	1	1	2
## 139		4	3	1	1	4
## 150		5	3	3	3	2
## 230		4	3	3	3	3
## 260		5	3	1	1	3
## 366		5	4	2	2	2
## 372		4	1	1	1	2
## 443		5	3	1	2	2
## 476		4	5	2	1	2
## 503		2	4	2	1	4
## 525		4	4	2	3	3
## 571		1	3	2	5	4
## 620		3	3	2	3	4
## 683		2	3	3	2	1
## 695		5	5	1	2	3
## 743		5	5	2	3	2
## 751		5	2	2	2	3
## 804		3	3	1	5	3
## 847		5	4	2	5	3
## 849		4	3	2	4	2
## 854		3	3	1	1	3
## 931		4	4	2	5	4
## 938		4	2	1	1	3
## 941		4	5	2	5	2
## 958		4	3	1	4	4
## 1007		2	1	1	3	5
##	Elections	Self.criticism	Judgment.calls	Hypochondria	Empathy	
## 13	5	5	2	5	5	
## 33	1	1	5	1	5	
## 35	5	4	3	1	2	
## 54	5	3	5	1	5	
## 92	1	3	3	3	5	
## 125	3	5	3	1	3	
## 139	5	4	5	1	5	
## 150	3	1	2	1	2	
## 230	4	4	4	1	5	
## 260	4	5	5	5	5	
## 366	5	2	4	1	2	
## 372	5	1	5	1	4	
## 443	1	4	4	1	4	
## 476	5	4	4	2	5	
## 503	5	2	5	2	4	
## 525	5	5	4	2	4	
## 571	3	2	5	1	3	
## 620	1	3	4	1	3	
## 683	1	1	1	5	4	
## 695	1	5	5	1	5	

## 743	2	2	5	2	5
## 751	5	3	4	2	5
## 804	3	3	2	3	5
## 847	2	2	2	3	3
## 849	3	5	4	1	2
## 854	3	4	3	1	3
## 931	1	3	5	3	5
## 938	4	2	5	4	4
## 941	1	2	4	2	4
## 958	5	4	3	2	5
## 1007	5	5	5	1	2
##	Eating.to.survive	Giving	Compassion.to.animals	Borrowed.stuff	
Loneliness					
## 13		3	2	5	5
5					
## 33		1	1	5	5
1					
## 35		2	3	1	3
2					
## 54		5	5	3	5
3					
## 92		3	3	1	2
2					
## 125		2	4	2	4
2					
## 139		2	1	2	5
4					
## 150		3	2	1	2
3					
## 230		5	3	3	4
2					
## 260		1	1	5	5
3					
## 366		2	3	4	4
2					
## 372		3	3	4	4
1					
## 443		1	3	4	4
4					
## 476		2	2	5	4
3					
## 503		1	3	2	4
2					
## 525		1	1	5	3
3					
## 571		1	3	3	3
3					
## 620		2	3	5	4
2					
## 683		2	2	4	4

3						
## 695	4	1		3		5
5						
## 743	4	1		4		2
1						
## 751	3	4		3		4
2						
## 804	1	5		5		5
3						
## 847	4	3		5		5
4						
## 849	1	2		3		1
1						
## 854	3	5		5		5
3						
## 931	2	5		2		4
5						
## 938	2	1		4		5
5						
## 941	2	2		3		2
2						
## 958	3	1		5		4
3						
## 1007	1	4		3		4
1						
##	Cheating.in.school	Health	Changing.the.past	God	Dreams	Charity
## 13	2	5		3	1	3
## 33	5	1		1	3	3
## 35	2	2		4	5	4
## 54	5	3		5	5	3
## 92	5	3		3	5	3
## 125	2	2		2	1	4
## 139	4	3		5	5	3
## 150	2	2		1	4	3
## 230	5	2		2	5	3
## 260	3	5		5	5	4
## 366	3	1		3	5	4
## 372	2	3		1	5	4
## 443	5	3		2	5	4
## 476	5	3		2	5	3
## 503	5	2		2	4	4
## 525	4	3		4	5	3
## 571	5	4		4	3	4
## 620	3	5		2	1	3
## 683	3	2		4	5	3
## 695	4	3		3	5	2
## 743	5	1		2	5	4
## 751	3	3		2	5	3
## 804	5	5		5	5	3
## 847	4	4		5	5	3

## 849	5	3	1	5	4	1
## 854	3	5	3	5	4	3
## 931	4	4	3	4	3	2
## 938	4	4	1	3	4	2
## 941	5	4	5	4	2	1
## 958	5	3	3	4	3	1
## 1007	1	3	4	5	3	3

##	Number.of.friends	Waiting	New.environment	Mood.swings
----	-------------------	---------	-----------------	-------------

## 13	3	2	1	4
## 33	5	2	5	2
## 35	4	4	3	2
## 54	5	1	4	2
## 92	3	1	4	4
## 125	4	4	4	2
## 139	4	5	5	2
## 150	2	2	4	3
## 230	4	3	4	2
## 260	4	1	5	2
## 366	3	4	4	2
## 372	5	3	4	2
## 443	3	4	4	3
## 476	5	3	2	3
## 503	4	3	5	1
## 525	2	1	3	3
## 571	5	3	5	3
## 620	4	3	3	3
## 683	3	3	5	4
## 695	4	2	5	4
## 743	5	2	5	4
## 751	3	3	4	2
## 804	3	2	5	2
## 847	2	2	4	4
## 849	5	5	4	2
## 854	5	4	4	4
## 931	2	3	4	5
## 938	1	2	4	4
## 941	4	2	4	4
## 958	2	3	3	3
## 1007	3	5	5	1

##	Appearance.and.gestures	Socializing	Achievements
----	-------------------------	-------------	--------------

## 13	4	2	3
## 33	2	4	2
## 35	3	4	3
## 54	1	5	2
## 92	3	5	3
## 125	3	2	3
## 139	3	5	3
## 150	2	3	4
## 230	4	4	3
## 260	2	4	3

## 366	4	3	3	
## 372	4	5	3	
## 443	4	3	3	
## 476	2	1	4	
## 503	3	3	4	
## 525	2	3	1	
## 571	5	4	3	
## 620	4	3	3	
## 683	2	3	4	
## 695	4	5	3	
## 743	1	5	4	
## 751	4	3	2	
## 804	4	3	3	
## 847	3	2	4	
## 849	5	3	2	
## 854	4	4	4	
## 931	4	3	3	
## 938	2	3	1	
## 941	4	1	5	
## 958	3	3	3	
## 1007	3	3	3	
##	Responding.to.a.serious.letter	Children	Assertiveness	Getting.angry
## 13	4	5	5	5
## 33	3	3	4	1
## 35	3	3	4	1
## 54	1	5	5	2
## 92	3	4	4	5
## 125	1	4	4	1
## 139	5	5	4	1
## 150	3	5	2	2
## 230	4	4	4	1
## 260	2	3	3	3
## 366	3	4	4	1
## 372	2	5	4	1
## 443	2	5	5	3
## 476	4	4	4	2
## 503	2	3	5	1
## 525	4	3	2	2
## 571	3	5	4	4
## 620	2	3	5	3
## 683	4	5	3	3
## 695	5	4	3	1
## 743	3	4	4	2
## 751	1	5	3	3
## 804	1	4	3	3
## 847	2	5	4	3
## 849	4	4	4	1
## 854	2	5	3	3
## 931	2	4	3	4
## 938	2	5	3	4

## 941		3	3	4	3
## 958		4	3	2	4
## 1007		5	5	4	1
##	Knowing.the.right.people	Public.speaking	Unpopularity	Life.struggles	
## 13		3	3	2	5
## 33		3	4	3	3
## 35		4	4	4	1
## 54		2	2	5	2
## 92		5	5	5	2
## 125		3	2	4	1
## 139		2	5	5	5
## 150		3	5	4	2
## 230		3	4	3	2
## 260		3	3	3	2
## 366		1	1	3	2
## 372		3	2	3	2
## 443		4	4	4	4
## 476		3	3	3	4
## 503		5	2	2	1
## 525		4	4	4	3
## 571		3	5	5	3
## 620		5	1	3	1
## 683		3	3	4	1
## 695		4	1	3	1
## 743		4	2	2	1
## 751		5	1	3	2
## 804		3	3	3	3
## 847		3	5	5	4
## 849		5	2	5	2
## 854		4	4	3	5
## 931		3	4	4	5
## 938		4	3	5	5
## 941		2	2	4	4
## 958		2	5	4	3
## 1007		2	5	1	1
##	Happiness.in.life	Energy.levels	Small...big.dogs	Personality	
## 13		4	3	4	3
## 33		4	5	1	4
## 35		3	5	3	3
## 54		4	5	4	3
## 92		5	5	1	3
## 125		3	4	5	3
## 139		4	4	3	3
## 150		3	2	3	2
## 230		5	4	3	3
## 260		4	5	3	3
## 366		4	4	4	3
## 372		5	4	2	4
## 443		4	3	5	3
## 476		4	3	3	3

## 503	4	4	3	4
## 525	3	2	3	3
## 571	4	4	3	3
## 620	4	4	3	4
## 683	4	3	3	3
## 695	4	4	5	3
## 743	4	5	5	4
## 751	4	4	5	3
## 804	3	4	3	4
## 847	4	3	1	3
## 849	5	5	3	5
## 854	3	4	3	3
## 931	3	3	3	3
## 938	4	3	3	2
## 941	4	4	4	3
## 958	3	2	4	3
## 1007	4	4	3	5
##	Finding.lost.valuables	Getting.up	Interests.or.hobbies	
Parents..advice				
## 13	1	3	2	
4				
## 33	1	5	5	
3				
## 35	5	2	3	
2				
## 54	3	5	5	
4				
## 92	3	5	4	
4				
## 125	3	3	4	
3				
## 139	4	3	3	
5				
## 150	3	2	3	
3				
## 230	1	3	4	
4				
## 260	5	3	5	
3				
## 366	2	2	4	
3				
## 372	3	3	5	
3				
## 443	3	2	4	
3				
## 476	3	5	5	
3				
## 503	1	2	4	
4				
## 525	3	3	3	

4				
## 571	1	3	3	
3				
## 620	3	3	1	
3				
## 683	3	5	2	
3				
## 695	5	5	5	
3				
## 743	3	5	4	
1				
## 751	1	3	3	
3				
## 804	2	5	4	
4				
## 847	5	4	4	
4				
## 849	1	4	5	
2				
## 854	4	1	5	
5				
## 931	4	3	4	
3				
## 938	2	5	5	
2				
## 941	2	5	3	
4				
## 958	4	4	2	
4				
## 1007	3	1	3	
4				
##	Questionnaires.or.polls	Finances	Shopping.centres	Branded.clothing
## 13	2	4	1	1
## 33	3	1	3	1
## 35	2	3	3	4
## 54	4	3	5	3
## 92	3	5	5	5
## 125	2	3	3	3
## 139	5	4	1	1
## 150	3	3	2	1
## 230	2	1	2	2
## 260	5	4	1	3
## 366	1	3	3	3
## 372	3	3	3	2
## 443	1	2	4	2
## 476	2	1	2	2
## 503	3	2	5	5
## 525	5	4	2	5
## 571	1	3	5	5
## 620	1	2	2	4

## 683	3	1	4	4
## 695	3	3	2	3
## 743	3	1	4	5
## 751	3	4	3	3
## 804	1	3	3	2
## 847	5	4	4	3
## 849	2	3	4	5
## 854	3	4	2	1
## 931	3	3	5	2
## 938	4	5	2	2
## 941	3	2	5	5
## 958	3	3	2	5
## 1007	3	3	1	1

##	Entertainment.spending	Spending.on.looks	Spending.on.gadgets
----	------------------------	-------------------	---------------------

## 13	2	3	2
## 33	4	5	1
## 35	3	3	1
## 54	3	1	2
## 92	5	3	2
## 125	3	4	3
## 139	1	1	1
## 150	2	1	2
## 230	4	1	2
## 260	4	3	1
## 366	3	4	2
## 372	3	3	4
## 443	4	5	3
## 476	5	2	1
## 503	4	4	5
## 525	3	2	2
## 571	3	5	5
## 620	3	2	4
## 683	4	4	4
## 695	3	2	4
## 743	5	4	4
## 751	3	3	3
## 804	3	3	3
## 847	4	4	4
## 849	5	5	5
## 854	1	3	2
## 931	2	3	2
## 938	4	2	3
## 941	4	4	4
## 958	3	3	3
## 1007	1	1	5

##	Spending.on.healthy.eating	Age	Height	Weight	Number.of.siblings
----	----------------------------	-----	--------	--------	--------------------

## 13	3	24	168	55	10
## 33	1	20	158	46	4
## 35	2	20	177	67	5
## 54	1	18	164	51	4

## 92	2	18	168	50	4
## 125	5	20	176	69	4
## 139	1	20	168	50	4
## 150	4	19	184	85	5
## 230	2	21	173	73	5
## 260	3	19	175	72	4
## 366	4	24	175	70	5
## 372	3	19	164	53	4
## 443	3	18	163	58	6
## 476	3	18	172	60	4
## 503	5	22	193	86	6
## 525	2	19	171	60	4
## 571	5	23	189	88	4
## 620	5	27	175	83	4
## 683	1	19	172	75	4
## 695	4	21	187	73	4
## 743	5	26	183	90	5
## 751	3	22	175	86	6
## 804	3	27	173	79	5
## 847	4	23	171	54	4
## 849	5	19	184	60	4
## 854	2	30	175	68	4
## 931	4	18	165	45	5
## 938	5	18	167	62	4
## 941	4	16	172	59	4
## 958	3	20	175	65	5
## 1007	3	27	183	80	5

Function for outlier treatment

Capping and Flooring function

```
treat_outlier <- function(x){
  qnt <- quantile(x, probs=c(.25, .75), na.rm = T)
  caps <- quantile(x, probs=c(.05, .95), na.rm = T)
  H <- 1.5 * IQR(x, na.rm = T)
  x[x < (qnt[1] - H)] <- caps[1]
  x[x > (qnt[2] + H)] <- caps[2]
  return(as.data.frame(x))
}
```

```
impu_num_compl$Age <- treat_outlier(impu_num_compl$Age)$x
impu_num_compl$Height <- treat_outlier(impu_num_compl$Height)$x
impu_num_compl$Weight <- treat_outlier(impu_num_compl$Weight)$x
```

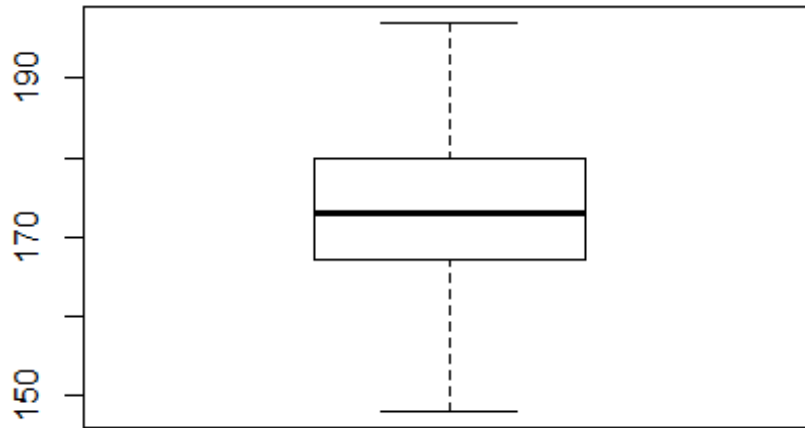
```
dim(impu_num_compl)
```

```
## [1] 1010 139
```

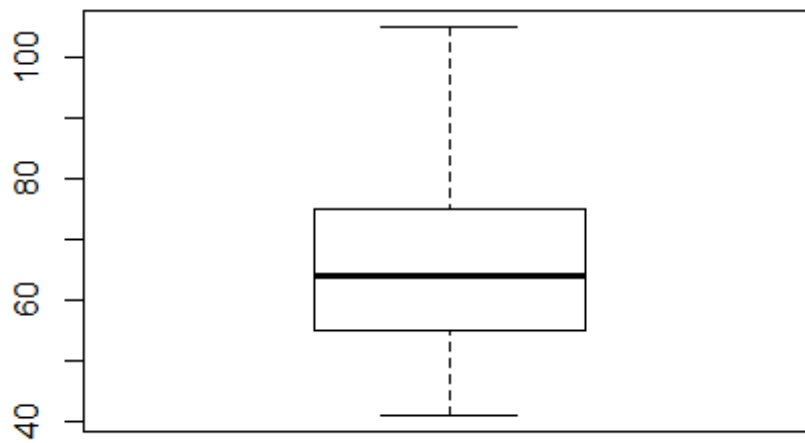
```
dim(impu_cat_compl)
```

```
## [1] 1010 11
```

```
boxplot(impu_num_compl$Height)
```



```
boxplot(impu_num_compl$Weight)
```



```
data_transformed = cbind(impu_num_compl, impu_cat_compl)
dim(data_transformed)

## [1] 1010 150
```

Corelation Analysis:

```
data_num_trans <- data_transformed[,!sapply(data_transformed, is.factor)]
dim(data_num_trans)

## [1] 1010 139

music_trans = data_transformed[,names(music_data)]
dim(music_trans)

## [1] 1010 19

library(corrgram)

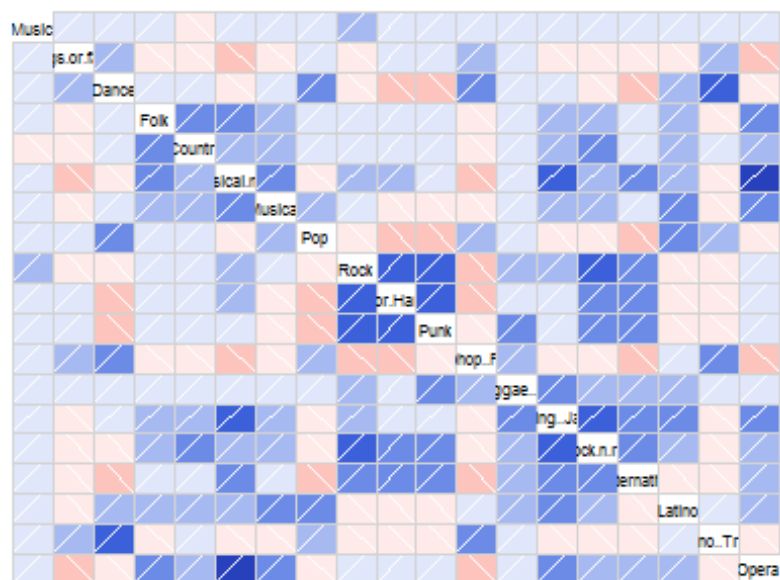
## Warning: package 'corrgram' was built under R version 3.6.2

## Registered S3 method overwritten by 'seriation':
##   method      from
##   reorder.hclust gclus

##
## Attaching package: 'corrgram'

## The following object is masked from 'package:lattice':
##
##   panel.fill

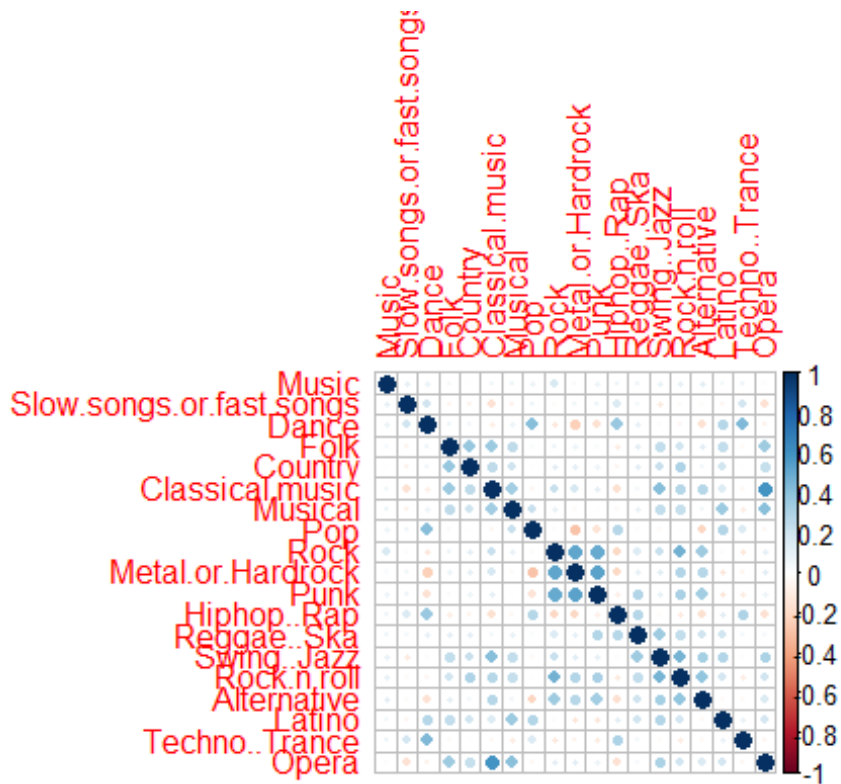
corrgram(music_trans)
```



```
library(corrplot)

## Warning: package 'corrplot' was built under R version 3.6.2
## corrplot 0.84 loaded

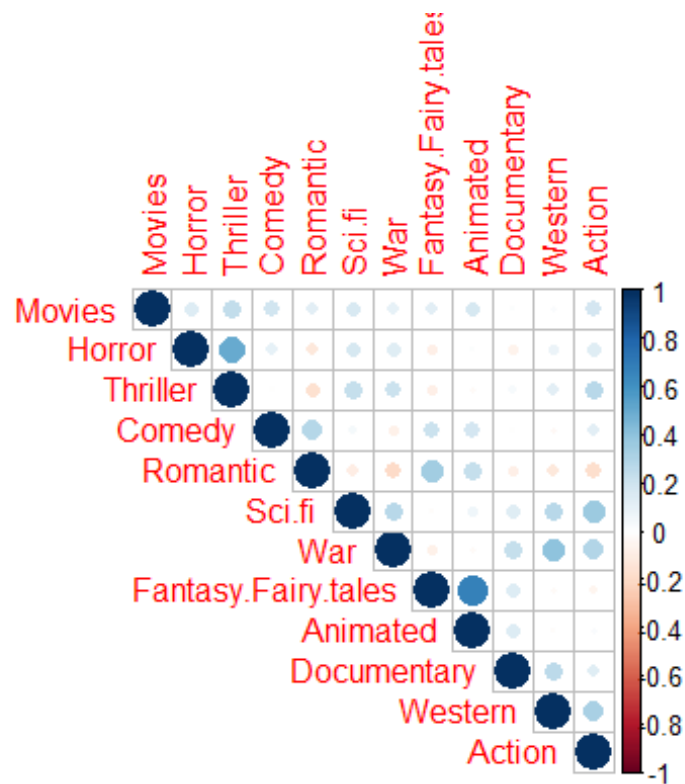
music_cor = cor(music_trans)
corrplot(music_cor)
```



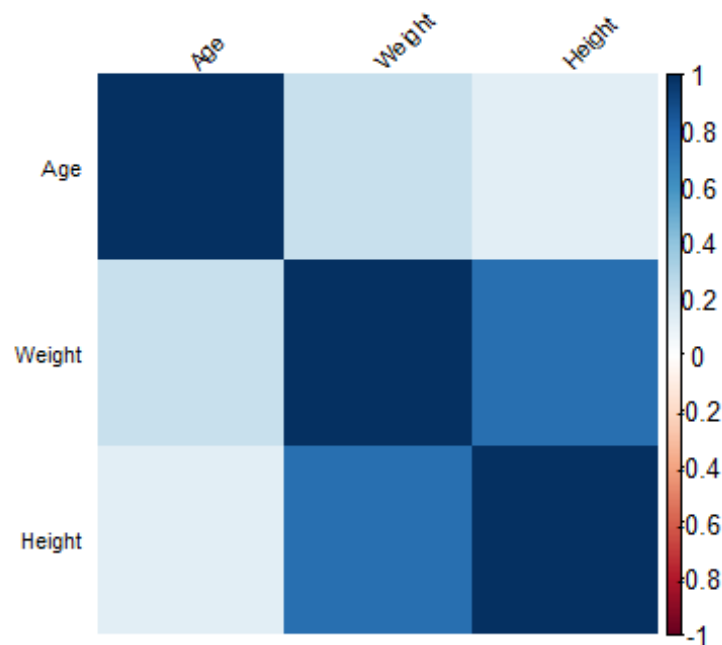
```
movie_trans = data_transformed[,names(movie_data)]
dim(movie_trans)

## [1] 1010 12

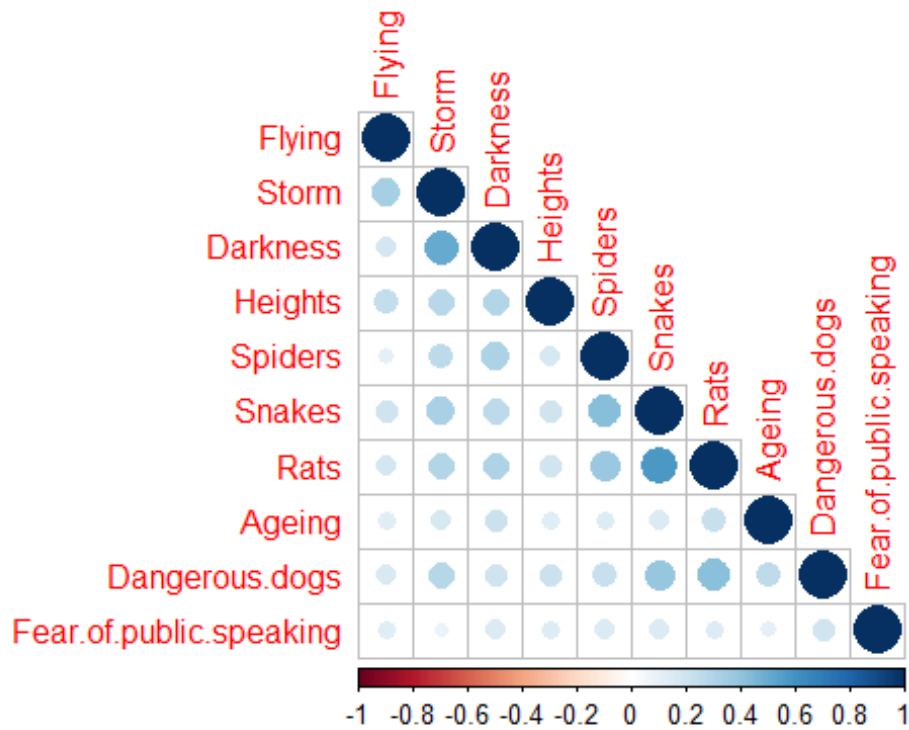
movie_cor = cor(movie_trans)
corrplot(movie_cor,type="upper")
```

```
demo_cor <- cor(data_transformed[,c('Age', 'Weight', 'Height')])
corrplot(demo_cor, method="shade", shade.col=NA, tl.col="black", tl.srt=45,
tl.cex =0.7)
```



```
phobia_cor = cor(data_transformed[,names(phobia_data)])
corrplot(phobia_cor,type = "lower")
```



```
spend_cor = cor(data_transformed[,names(spend_data)])
corrplot(spend_cor)
```


Exploratory Data Analysis

data_transformed\$Gender

```
## [1] female female female female female male female male female
female
## [11] female female female female female male female female male male
## [21] male male female female female female female female male
female
## [31] male female female female male female female male female
female
## [41] female male female female female male female female female
female
## [51] female female female female female female female female male male
## [61] male male male male female male male female female
female
## [71] male male female male male male male female female
female
## [81] female male female female female male male female female
female
## [91] female female female male male male male male male
female
## [101] female male female male male male male female female male
## [111] male female female female female female female female male
female
## [121] male male female female male female female female female
female
## [131] female male female female female male male female
female
## [141] female female male female male female male male male male male
## [151] female male male female male female male male male female male
## [161] male female male male male female female male female
female
## [171] male male male male male female male male female male
## [181] male male female male female female female female female
female
## [191] female female female male male male female female male male
## [201] male male female female female female male female female male
## [211] male female male female female male female female male male
## [221] male male female female male male female female male
## [231] female female female female female female female female female
female
## [241] male female female female female female male female female
female
## [251] female female female female female female female male female male
## [261] male female female female female female female female female
female
## [271] female male female female female female female male male
female
## [281] female male female male male female female female male male
```

```

## [291] female male    female female female female male    male    female
female
## [301] female male    female female female female female female female
female
## [311] male    female male    female male    male    female male    female
female
## [321] male    female female male    female male    female female male
female
## [331] female male    female female female male    male    male    female
female
## [341] female male    female female female female male    male    male
female
## [351] male    female male    female female male    male    male    male
female
## [361] female female female female male    male    male    male    female male
## [371] female female male    male    female female female female female male
## [381] female female female male    female male    female female female
female
## [391] male    female female male    male    male    female female female
female
## [401] male    female male    male    female female female female female
female
## [411] male    female female male    male    female female male    female
female
## [421] female female female female female female female male    female
female
## [431] female male    male    female male    female male    female female male
## [441] female female female female female female male    female female
female
## [451] male    male    female female female female male    male    female
female
## [461] male    male    female female female female male    female female male
## [471] female male    male    male    male    female female female male
female
## [481] female male    male    female female female female female male
female
## [491] female female female male    female female female female female male
## [501] female female male    female female male    male    female male
female
## [511] male    male    female male    male    male    male    female female male
## [521] female female female male    female female male    female male    male
## [531] female male    female male    female male    female male    female male
## [541] male    female    male    male    male    male    male    female
female
## [551] female female female female male    female female female female
female
## [561] female male    male    male    male    female female male    female
female
## [571] male    male    female male    female female male    female female male
## [581] male    female male    male    female male    male    female female

```

female
[591] male female female female male male male male male male male
[601] female female male female female male male female male male
[611] male female male female female male male female female male
[621] male female male female female female female female male
female
[631] female female male male female female male male female male
[641] female male male female female male male female female
female
[651] male male male female male female female female female male male
[661] female female female male female female female male male male
[671] female female female female male female female female female
female
[681] female female male female female female male male female male
[691] male female male female male female female female female
female
[701] female female male male female female male female male
female
[711] female female female female female male male female female male
[721] female female female female female male male male female male
[731] female female female female female female female female male male
[741] male female male male male female female female female male
[751] female female female female male female male female male male
[761] female male male male female male female male male
female
[771] female male female female female female male male female
female
[781] male female female male male male male male female male
[791] female female male male male female male male female male
[801] male female female female female female male male male male
[811] male male female male female male male male male
female
[821] female male female male female female female female male
female
[831] female female female male male male male male female
female
[841] female male female female male female female female male
female
[851] female male male female male male female male male male
[861] male female male male male female male female male
female
[871] female male male male female female male male male male
[881] female female female female female female male male female
female
[891] male male male female female male male male female male
[901] male female male male female male female female male
female
[911] female female female female female female male male female
female
[921] female male female female female female male female female

```

female
## [931] female male   female female       female female female female
female
## [941] male   female male   female female male   male   female female
female
## [951] male   male   male   female female female male   male   female
female
## [961] female male   female male   male   female female male   male   male
## [971] male   male   female female female female female male   female male
## [981] female female male   female female female female male   male
female
## [991] male   male   male   female female female male   female male   male
## [1001] female female male   female male   female male   female female male
## Levels:  female male

a = split(data_transformed$Gender, 3, drop =TRUE)

str(data_transformed$Gender)

## Factor w/ 3 levels "", "female", "male": 2 2 2 2 2 3 2 3 2 2 ...

library(ggplot2)
library(gridExtra)

## Warning: package 'gridExtra' was built under R version 3.6.2

library(magrittr) # needs to be run every time you start R and want to use
%>%
library(dplyr)

##
## Attaching package: 'dplyr'

## The following object is masked from 'package:gridExtra':
##
##   combine

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library(reshape2)

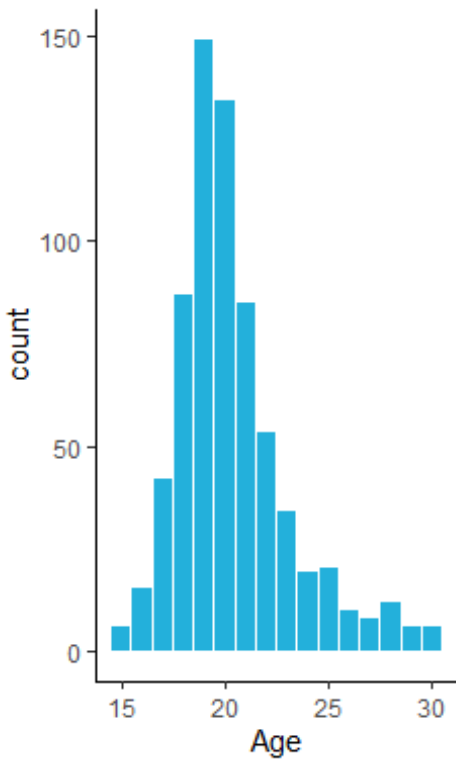
## Warning: package 'reshape2' was built under R version 3.6.2

p1 =ggplot(na.omit(data), aes(x=Age)) + geom_bar(fill = "#23b0db") +
theme_bw() + theme(panel.border = element_blank(), panel.grid.major =
element_blank(),

```

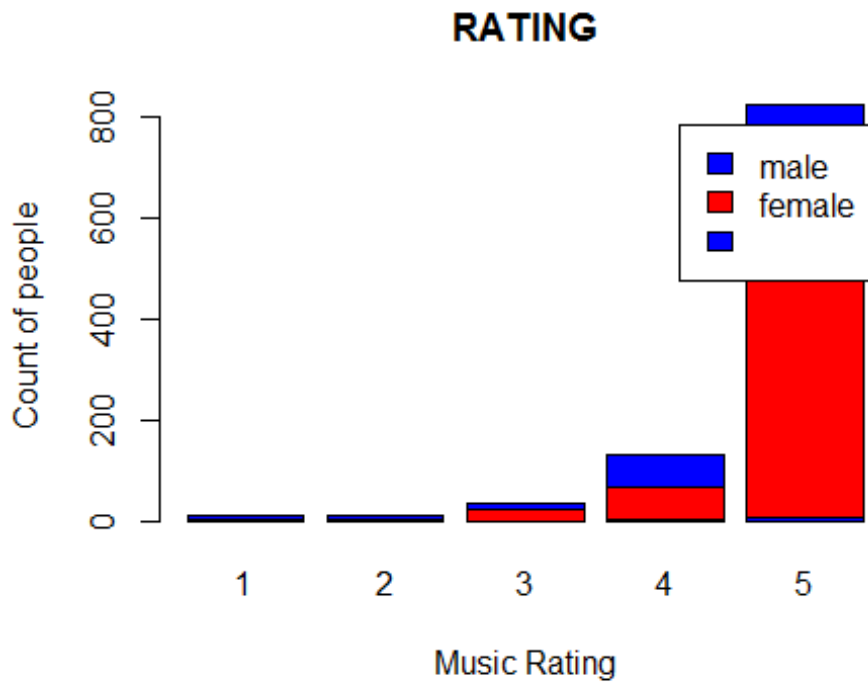
```
panel.grid.minor = element_blank(), axis.line = element_line(colour =
"black"))
```

```
age = data %>% select(Age) %>% group_by(Age) %>% summarize(count = n()) %>%
arrange(desc(count))
age = tableGrob(as.data.frame(age))
grid.arrange(p1, head(age, 7), ncol=2)
```

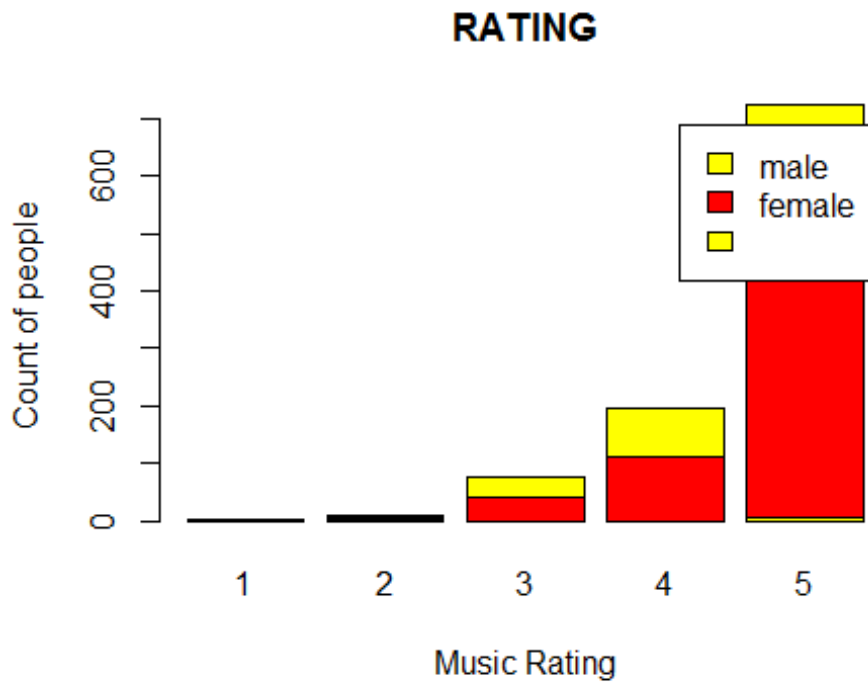


	Age	count
1	19	210
2	20	194
3	21	127
4	18	123
5	22	84
6	17	53

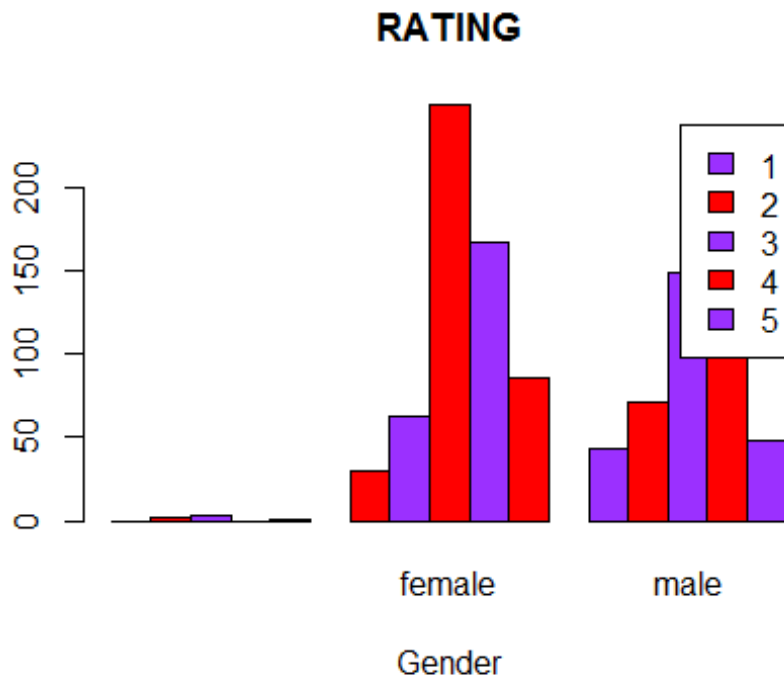
```
counts <- table(data_transformed$Gender, data_transformed$Music)
barplot(counts, main="RATING",
        xlab="Music Rating", ylab = "Count of people", col=c("blue","red"),
        legend = rownames(counts))
```

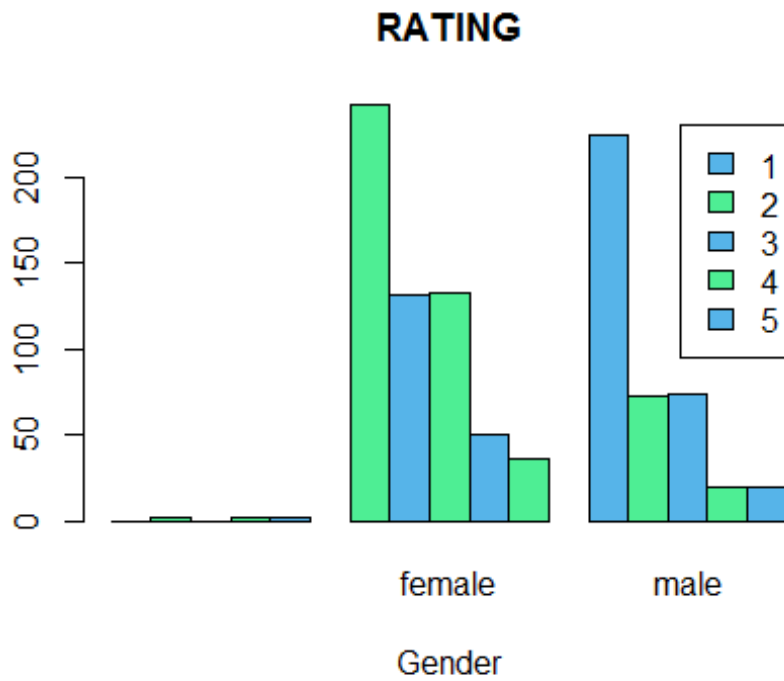
```
counts <- table(data_transformed$Gender, data_transformed$Movies)
barplot(counts, main="RATING",
        xlab="Music Rating", ylab = "Count of people", col=c("Yellow","red"),
        legend = rownames(counts))
```



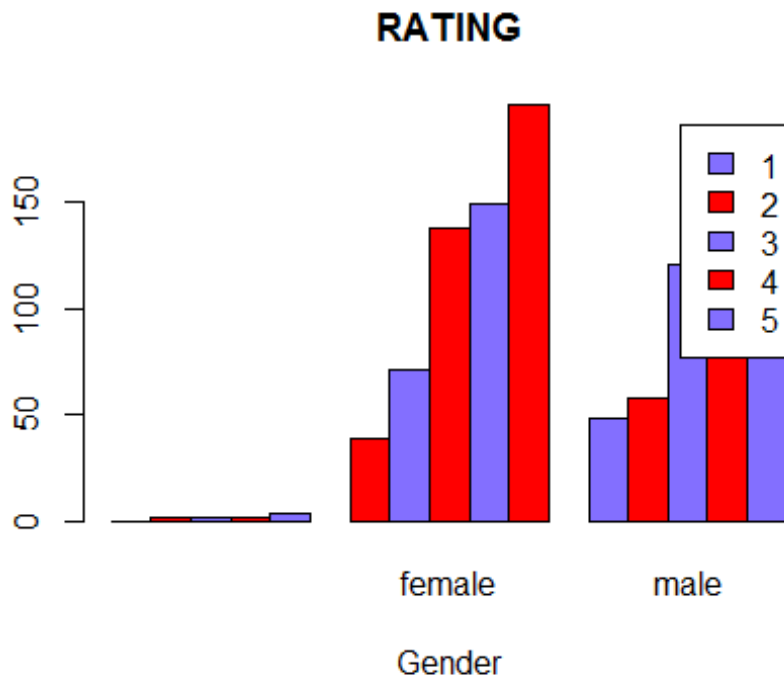
```
#Health
counts <- table(data_transformed$Health, data_transformed$Gender)
barplot(counts, main="RATING",
        xlab="Gender", col=c("purple1", "red"),
        legend = rownames(counts), beside=TRUE)
```



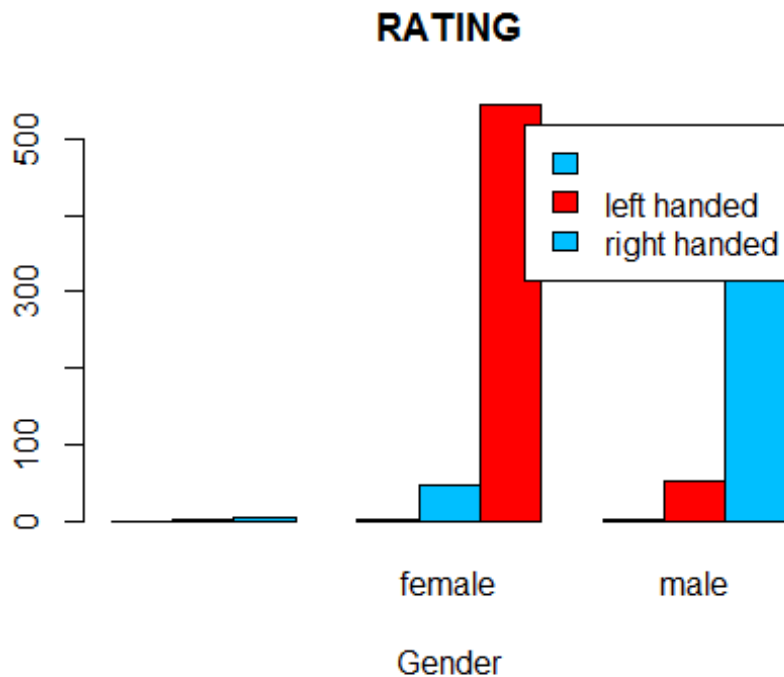
```
#Flying_----- Phobias
counts <- table(data_transformed$Flying, data_transformed$Gender)
barplot(counts, main="RATING",
        xlab="Gender", col=c("#56B4E9", "seagreen2"),
        legend = rownames(counts), beside=TRUE)
```



```
#Public Speaking-----Phobias
counts <- table(data_transformed$Public.speaking, data_transformed$Gender)
barplot(counts, main="RATING",
        xlab="Gender", col=c("slateblue1", "red"),
        legend = rownames(counts), beside=TRUE)
```



```
#Left/Right Handed
counts <- table(data_transformed$Left...right.handed,
data_transformed$Gender)
barplot(counts, main="RATING",
        xlab="Gender", col=c("deepskyblue1","red"),
        legend = rownames(counts), beside=TRUE)
```



```
dim(hobbies_data)

## [1] 1010 32

hobbies_transformed <- data_transformed[,names(hobbies_data)]
hobbies_pca <- prcomp(hobbies_transformed, scale= T)
names(hobbies_pca)

## [1] "sdev" "rotation" "center" "scale" "x"

#rotation - represents the loadings of each variables on components
hobbies_pca$rotation
```

	PC1	PC2	PC3	PC4
## History	0.188458129	-0.09972504	0.191659752	-0.22991541
## Psychology	0.230036558	0.01786097	0.099845621	-0.12092486
## Politics	0.123498901	-0.20221515	0.261041540	-0.21465574
## Mathematics	0.071298342	-0.28497563	-0.148794306	-0.11696119
## Physics	0.117537829	-0.32127215	-0.264318100	-0.13787033
## Internet	-0.047107481	-0.24945405	0.114615245	0.10689102
## PC	-0.040810044	-0.37916578	-0.026702872	-0.01947711
## Economy.Management	-0.004247973	-0.19189231	0.297016846	0.01081594
## Biology	0.275152415	0.02013486	-0.351237734	0.16443892
## Chemistry	0.220249354	-0.02970157	-0.402713435	0.09655225
## Reading	0.273290822	0.20243199	0.075074553	-0.17176942
## Geography	0.165733285	-0.15102913	0.150868856	-0.07075296
## Foreign.languages	0.196795893	0.01943294	0.224850707	-0.01840982
## Medicine	0.283815963	-0.01061050	-0.296379491	0.11658962

## Law	0.139885598	-0.14966276	0.276167023	-0.02315421
## Cars	-0.054065830	-0.35287817	0.054454401	0.15197566
## Art.exhibitions	0.307286358	0.08363239	0.106223775	-0.05528705
## Religion	0.234554023	-0.02118824	-0.009334782	-0.16050540
## Countryside..outdoors	0.196673276	-0.02578241	-0.009371219	0.11783931
## Dancing	0.232312679	0.05907080	0.086621432	0.24672526
## Musical.instruments	0.216399667	-0.01219800	-0.012291430	-0.08626889
## Writing	0.231718611	0.07397364	0.067636420	-0.15644741
## Passive.sport	-0.023439504	-0.15300983	0.051616951	0.20587472
## Active.sport	0.069058573	-0.20429023	0.043485929	0.24414843
## Gardening	0.192890484	0.03464648	-0.080288637	0.18959498
## Celebrities	0.015776035	0.09462840	0.186510020	0.34123592
## Shopping	0.083917204	0.12707686	0.199581102	0.39774969
## Science.and.technology	0.097311047	-0.33700031	-0.117622329	-0.03484404
## Theatre	0.293866571	0.13860458	0.110875136	-0.03254494
## Fun.with.friends	0.062460243	-0.05187930	0.139364342	0.26018379
## Adrenaline.sports	0.074602609	-0.25199639	0.062705429	0.22378600
## Pets	0.087440530	0.03835047	-0.026758239	0.25545973
##	PC5	PC6	PC7	PC8
## History	0.092591265	-0.232015433	0.25239113	-0.06548575
## Psychology	0.148720516	0.014508725	-0.14185033	0.08552131
## Politics	0.247013176	-0.132333726	0.12069825	0.12790917
## Mathematics	-0.002370872	0.290108551	-0.24097120	0.17220703
## Physics	-0.005937990	0.138911115	-0.15417460	0.13472563
## Internet	-0.031563650	0.409201245	0.15277805	-0.33138111
## PC	-0.140059444	0.319267598	0.09215982	-0.08493418
## Economy.Management	0.219596773	0.149171977	-0.20031212	0.17069411
## Biology	0.237872115	-0.035475460	0.02578910	-0.11433832
## Chemistry	0.254623212	-0.044583322	-0.03483529	-0.07935483
## Reading	0.009166497	0.073519057	-0.01308066	-0.14064121
## Geography	-0.001296033	-0.207056165	0.27032491	-0.27703787
## Foreign.languages	0.062444420	0.094568340	-0.14992093	-0.41035039
## Medicine	0.274674151	-0.056459180	0.01393986	-0.12804866
## Law	0.358448817	-0.101036149	0.02537942	0.16761041
## Cars	-0.003879326	-0.088122453	0.11289934	0.04308159
## Art.exhibitions	-0.194064673	0.083454620	-0.08848909	0.01818948
## Religion	-0.066276692	0.064782579	0.19193962	0.06085112
## Countryside..outdoors	-0.352637463	-0.097031086	0.22136307	-0.14052420
## Dancing	-0.079618956	0.012731339	-0.16346012	0.18230175
## Musical.instruments	-0.366971152	0.082456456	-0.01926015	0.09180239
## Writing	-0.205552004	0.136106746	0.03084835	0.23993099
## Passive.sport	-0.146071143	-0.127491042	0.15782316	-0.17095880
## Active.sport	-0.141964721	-0.325163564	-0.12763567	0.26173364
## Gardening	-0.147538683	0.082339921	0.35510845	0.31300178
## Celebrities	0.162685242	0.307917512	0.18206845	0.13487536
## Shopping	0.157865883	0.241111976	0.02183875	0.02799432
## Science.and.technology	0.001477316	0.083055353	0.04019640	-0.08928700
## Theatre	-0.101931633	0.064560558	-0.21810241	-0.07438009
## Fun.with.friends	-0.109742421	-0.063689827	-0.39486085	-0.29098669
## Adrenaline.sports	-0.143782184	-0.329756935	-0.24642978	0.03323823

## Pets	0.051462435	-0.009519456	0.21944914	0.10229865
##	PC9	PC10	PC11	PC12
## History	0.2342319487	0.013213679	0.02656929	0.014686171
## Psychology	0.1634428977	-0.173316277	0.29922905	-0.217844043
## Politics	0.0003330098	0.028409473	0.11560478	0.089453472
## Mathematics	-0.1227967977	0.415744678	-0.03102544	0.146137501
## Physics	0.0605717983	0.187165070	-0.05964467	0.118388354
## Internet	0.0501169630	-0.135904736	0.13256657	-0.038345456
## PC	0.0836480239	-0.194955920	-0.08441881	-0.110075826
## Economy.Management	-0.2578599951	0.237036055	-0.05440312	-0.099314337
## Biology	-0.0656992949	-0.068240695	0.06665055	-0.004194024
## Chemistry	-0.0448282578	-0.012743686	-0.03919365	0.109878401
## Reading	0.1311171386	0.121373314	-0.16553035	0.121776808
## Geography	-0.2121255816	0.075893927	-0.40988342	0.173529969
## Foreign.languages	-0.2743702248	-0.085613319	-0.18114315	-0.019851505
## Medicine	-0.1044512509	-0.176308133	0.08116972	0.001417123
## Law	-0.0129844112	0.024797536	0.13392287	0.042392594
## Cars	0.1126257763	-0.100383522	0.05174534	-0.138464290
## Art.exhibitions	0.1480556405	0.028108790	-0.03140235	0.049578834
## Religion	-0.2035988869	-0.004848608	0.35849183	-0.393017524
## Countryside..outdoors	-0.1682045383	0.334944022	-0.04810741	-0.379477869
## Dancing	-0.2718126978	-0.035144419	-0.02929581	-0.169902419
## Musical.instruments	-0.1518894347	-0.228909445	0.26370229	0.136685469
## Writing	0.0859320390	-0.365865217	-0.11663001	0.303731172
## Passive.sport	-0.1388167380	0.193524389	0.49466560	0.554056046
## Active.sport	-0.0978546087	-0.191441181	-0.20297874	0.037383030
## Gardening	-0.0174921768	0.134950497	-0.07051273	0.075730596
## Celebrities	-0.0213124787	-0.112807899	-0.10859489	0.173889435
## Shopping	0.0241152752	-0.022607496	-0.02547038	-0.019461421
## Science.and.technology	0.2525523547	-0.146066026	-0.18943901	-0.072974790
## Theatre	0.2373060604	0.203906538	-0.02908785	0.045437909
## Fun.with.friends	0.2492036609	0.070038751	0.20242860	0.038986631
## Adrenaline.sports	0.1002526616	-0.115681528	-0.07578508	-0.052770482
## Pets	0.4875204274	0.294586372	-0.01534318	-0.099785036
##	PC13	PC14	PC15	PC16
## History	-0.11918292	-0.264841906	0.23562129	0.048499587
## Psychology	-0.53147080	-0.134003144	-0.25960270	-0.212537201
## Politics	0.14225150	0.020275698	0.17110829	-0.030416836
## Mathematics	-0.17389206	-0.088680894	0.04575537	0.190550851
## Physics	-0.02725997	-0.176143809	0.01568440	0.150602790
## Internet	-0.24231809	-0.094006707	0.14534745	-0.080953151
## PC	0.03656889	0.065041281	0.07195299	-0.073035218
## Economy.Management	-0.02685626	0.258389802	-0.09402371	-0.306934336
## Biology	-0.03674544	0.014119227	-0.03946773	-0.083243298
## Chemistry	0.07105813	0.018197628	0.10117714	-0.021308793
## Reading	0.05977048	-0.012847994	0.11893710	0.045485171
## Geography	-0.12965737	-0.141435945	0.01708068	0.037413428
## Foreign.languages	-0.11516304	0.336766162	-0.04416348	0.114506778
## Medicine	0.05568575	0.112221784	-0.05484492	-0.011739787
## Law	0.20052654	0.220965966	0.03155761	0.053131138

## Cars	0.35424863	0.088685964	-0.19272303	0.127627879
## Art.exhibitions	0.15766714	-0.095611890	-0.35873345	0.021981645
## Religion	0.14689966	-0.232714089	0.02768653	0.224113200
## Countryside..outdoors	-0.02248433	0.064114677	-0.13582649	-0.052047476
## Dancing	-0.07621054	-0.156530043	0.29739895	0.006507375
## Musical.instruments	0.08865918	0.372599208	0.20443150	0.279091075
## Writing	-0.13370538	0.143648944	-0.01997338	-0.120877714
## Passive.sport	-0.10655182	-0.033802622	-0.27309109	-0.053951301
## Active.sport	-0.16497639	-0.187370312	0.05512601	0.165136097
## Gardening	0.08029240	0.051113842	0.16972346	-0.577177451
## Celebrities	0.06850153	-0.234754041	-0.08292139	0.248466200
## Shopping	0.06411123	-0.170558272	-0.09922488	0.126536851
## Science.and.technology	0.17199686	-0.004297953	-0.15015236	-0.130311971
## Theatre	0.26338123	-0.078838818	-0.21457617	-0.028072652
## Fun.with.friends	0.17384884	-0.101511359	0.47844396	-0.185474306
## Adrenaline.sports	-0.10302385	0.065904906	-0.16953678	-0.015564040
## Pets	-0.33225220	0.440512655	0.11433088	0.322198191
##	PC17	PC18	PC19	PC20
## History	0.140568535	0.019058804	-0.063137882	-0.340299967
## Psychology	0.005707387	0.129875824	0.031426925	-0.214641018
## Politics	-0.121565756	0.217081565	-0.068302094	0.003366495
## Mathematics	-0.087735929	-0.110900070	-0.023429064	-0.143880906
## Physics	-0.073782415	0.068293026	0.076768503	-0.050267426
## Internet	0.217522404	-0.215441375	0.162339326	0.176880420
## PC	0.211440075	-0.111475474	-0.031609704	-0.047651596
## Economy.Management	-0.045930537	0.027840840	0.036412935	0.102489385
## Biology	0.003257511	-0.012333933	0.069147808	-0.038975437
## Chemistry	0.065622261	-0.045303826	0.024145774	-0.027908462
## Reading	0.118537094	-0.343128291	-0.273039466	0.051648044
## Geography	-0.176918197	0.137768750	0.384144671	0.184347919
## Foreign.languages	-0.095618470	-0.048243639	-0.400141090	-0.196940783
## Medicine	0.028008379	-0.062090399	0.091488004	0.042749446
## Law	0.232253891	-0.212837437	0.163565688	0.047394133
## Cars	0.101290718	-0.105382064	0.064788378	-0.077041582
## Art.exhibitions	0.153430645	-0.122627223	0.216359971	0.014236907
## Religion	-0.385963102	-0.232352629	-0.186134785	0.334236445
## Countryside..outdoors	0.041465898	0.063372624	0.104381153	-0.213741811
## Dancing	0.347373197	0.315367885	0.078103955	0.303012386
## Musical.instruments	0.023551049	0.261318628	0.136422927	-0.305837922
## Writing	-0.232484887	-0.091472367	0.092251598	0.294789399
## Passive.sport	0.080514277	0.071173847	-0.224338422	0.159425948
## Active.sport	0.244062647	-0.171008779	-0.379805344	0.038079046
## Gardening	-0.083220637	-0.152562035	-0.158094901	-0.204521380
## Celebrities	-0.162035703	0.019266520	0.116912722	-0.286153981
## Shopping	-0.169084120	0.142479980	-0.132551335	-0.061052617
## Science.and.technology	-0.123494310	0.487730771	-0.345660363	0.152263003
## Theatre	0.223948702	0.105474154	-0.003676628	0.108807117
## Fun.with.friends	-0.282540907	-0.008602802	0.091997421	-0.028442837
## Adrenaline.sports	-0.331133280	-0.278594683	0.153394827	-0.068272781
## Pets	-0.046438159	0.058743608	-0.021156648	0.241707897

##	PC21	PC22	PC23	PC24
## History	0.089378024	0.27249982	0.081685958	0.404197186
## Psychology	0.105591700	-0.00341174	-0.142315832	-0.212594526
## Politics	-0.169374235	-0.31925693	-0.086141769	-0.168492841
## Mathematics	0.077297990	0.03806932	-0.006096263	-0.035969797
## Physics	-0.013570922	0.11217012	0.162977863	-0.240395516
## Internet	-0.155409428	-0.09517320	0.174672673	0.013745440
## PC	-0.029353779	-0.12653046	-0.172011307	0.097874903
## Economy.Management	0.056489720	0.03141804	-0.161727689	0.522600837
## Biology	0.036599800	-0.09641642	-0.019273983	0.149770112
## Chemistry	-0.042457150	0.10832498	0.063636914	0.192233868
## Reading	-0.143087905	0.20705552	-0.348080118	-0.001703690
## Geography	0.213153785	-0.12339851	-0.024883673	-0.022706934
## Foreign.languages	0.213276835	-0.00187073	0.098434706	-0.251287644
## Medicine	-0.033030822	-0.05857201	-0.124398783	-0.031707678
## Law	-0.261291638	0.07208552	0.310180864	-0.283896857
## Cars	0.487331938	0.36616198	-0.200557843	-0.139096644
## Art.exhibitions	0.296753202	-0.33764367	0.195876942	0.058571883
## Religion	0.061461577	-0.07981032	-0.032296540	0.098511884
## Countryside..outdoors	-0.405737882	0.18979428	0.044101941	-0.119357905
## Dancing	0.100580228	0.23799480	-0.165722489	-0.146517269
## Musical.instruments	-0.022222980	-0.10777622	0.013830321	0.222434963
## Writing	-0.068715353	0.37683012	0.070487540	-0.025514325
## Passive.sport	-0.006673113	0.10716349	-0.094521343	0.014066381
## Active.sport	-0.035453278	-0.29817392	0.081032254	0.066455305
## Gardening	0.191596177	-0.13655688	0.078457744	-0.157125078
## Celebrities	-0.193970300	-0.08718504	-0.443689860	-0.071644312
## Shopping	0.011889605	0.18851704	0.504202132	0.182827722
## Science.and.technology	-0.167691163	0.02308271	0.015102689	-0.001437206
## Theatre	-0.137914691	-0.12133188	-0.093273415	0.082180350
## Fun.with.friends	0.107272447	-0.03169795	-0.033741293	-0.096182782
## Adrenaline.sports	-0.274955137	0.04690266	-0.068476535	0.117502955
## Pets	0.120812178	-0.12080933	-0.059398012	0.020557043
##	PC25	PC26	PC27	PC28
## History	-0.015325238	-0.053328696	-0.30396841	0.165928980
## Psychology	0.110054126	0.151113617	0.19481959	-0.132513914
## Politics	-0.347059475	-0.438008513	0.26221721	-0.074297731
## Mathematics	-0.022970305	0.072390127	0.01836953	0.102939921
## Physics	0.024431136	-0.066306695	-0.02225712	-0.033656426
## Internet	-0.155178320	-0.041469767	0.22223796	0.398051285
## PC	0.015283657	0.026053169	-0.21824761	-0.580466363
## Economy.Management	0.183985283	-0.095838917	0.04118931	0.052189789
## Biology	0.071131033	-0.088068770	-0.04602056	-0.060382767
## Chemistry	-0.131050003	-0.155411984	0.07054633	-0.055676060
## Reading	-0.059989639	0.116711124	0.34129790	-0.258231158
## Geography	0.118727757	0.292600948	0.15721901	-0.122039954
## Foreign.languages	-0.101072969	-0.085507934	-0.23360523	0.135039521
## Medicine	0.107828167	-0.005904270	0.02810581	0.138094731
## Law	0.226302203	0.291996307	-0.21384712	-0.089548162
## Cars	-0.012959607	-0.077885679	0.29806334	0.143823156

## Art.exhibitions	-0.088515158	-0.305624403	-0.19551497	-0.128551909
## Religion	0.051195327	0.108817872	-0.11200946	0.024296446
## Countryside..outdoors	0.207300073	-0.308268090	0.08157090	-0.043944572
## Dancing	-0.306851079	0.006402375	-0.21306071	-0.040119998
## Musical.instruments	0.011472790	0.237780789	0.20544425	0.020807957
## Writing	0.183600601	-0.295185892	-0.02768596	0.070409544
## Passive.sport	-0.013564230	-0.001914892	-0.11556287	-0.129317040
## Active.sport	0.328790684	-0.091217882	0.19676068	0.081321547
## Gardening	-0.124510434	0.217420577	-0.01340209	0.117973210
## Celebrities	0.132522166	-0.065358357	-0.21211129	0.135374613
## Shopping	-0.109395978	0.069785761	0.29544826	-0.299961683
## Science.and.technology	0.087363698	0.163581113	-0.10841696	0.113833901
## Theatre	-0.023644657	0.226538771	0.05989364	0.309597289
## Fun.with.friends	0.321433616	-0.102270132	-0.02456618	-0.068338982
## Adrenaline.sports	-0.498461041	0.180729640	-0.11356323	0.003381675
## Pets	0.006329268	-0.038696539	-0.06279122	-0.011001691
##	PC29	PC30	PC31	PC32
## History	0.0436252264	0.08885972	-0.103643613	0.024873786
## Psychology	0.0003107664	-0.11531229	0.115281418	0.089776263
## Politics	0.1014169997	-0.04752005	-0.112039360	-0.049791245
## Mathematics	-0.1355805402	-0.34968646	-0.460256858	0.006634840
## Physics	0.2005685773	0.54567187	0.397435033	-0.060552789
## Internet	-0.1195715221	0.03743514	0.085149185	-0.047635005
## PC	0.3364108291	-0.07193913	-0.109636364	0.059974932
## Economy.Management	-0.0416391116	0.18651618	0.161571740	0.028396348
## Biology	0.0034737992	-0.03368850	-0.076829898	-0.782877286
## Chemistry	0.0016929119	-0.46994875	0.452349152	0.368489468
## Reading	-0.3029578433	0.18862194	0.049639285	-0.076930129
## Geography	0.0434073886	-0.07451515	0.028324979	0.026165782
## Foreign.languages	0.1328496283	-0.01348350	0.107185899	-0.019764701
## Medicine	0.0670882078	0.40844571	-0.477668691	0.434044599
## Law	-0.1208068942	-0.11101063	0.041150511	-0.055407938
## Cars	0.0285055732	-0.07887428	0.005240120	-0.085151482
## Art.exhibitions	-0.3798787386	0.05354058	0.010294708	0.096928939
## Religion	0.0538250641	-0.05636915	0.116502577	0.030215774
## Countryside..outdoors	-0.0140779316	-0.05361508	-0.042472613	0.031224932
## Dancing	-0.0817104451	0.02524419	-0.036321042	-0.022423769
## Musical.instruments	-0.1095417829	0.05151530	0.088708506	-0.022241308
## Writing	0.1553783156	-0.13250198	-0.106361802	-0.046039769
## Passive.sport	0.0056073362	0.02706482	0.029672665	0.031963639
## Active.sport	0.0329459508	-0.01366870	0.033893795	0.005157876
## Gardening	0.0286857110	0.04824095	0.041577449	0.037166519
## Celebrities	-0.0600954317	-0.03197759	0.154158929	0.019391548
## Shopping	0.1108551014	0.07020307	-0.165240833	0.033732846
## Science.and.technology	-0.4034422108	-0.05396951	-0.022175035	0.003311783
## Theatre	0.5421808200	-0.14293657	-0.003959493	-0.046385582
## Fun.with.friends	-0.0469591626	-0.03661335	-0.013638638	0.037373544
## Adrenaline.sports	-0.0248298425	0.05120411	-0.004412017	-0.026971282
## Pets	0.0339082048	0.01427524	0.039473323	0.037922218

```
# Calculate the variance explained by each component
```

```
eigen_hobbies <- hobbies_pca$sdev^2
```

```
names(eigen_hobbies) <- paste("PC",1:32,sep="")
```

```
eigen_hobbies
```

```
##      PC1      PC2      PC3      PC4      PC5      PC6      PC7
PC8
## 4.2391294 3.2188434 2.5628009 2.1936649 1.5704999 1.3868499 1.1689198
1.1287278
##      PC9      PC10      PC11      PC12      PC13      PC14      PC15
PC16
## 1.0887872 0.9921651 0.9212331 0.8913134 0.8595703 0.7790779 0.7677160
0.7298606
##      PC17      PC18      PC19      PC20      PC21      PC22      PC23
PC24
## 0.6634885 0.6386832 0.6241286 0.5868250 0.5521857 0.5316185 0.5036362
0.4961543
##      PC25      PC26      PC27      PC28      PC29      PC30      PC31
PC32
## 0.4709276 0.4429519 0.4079236 0.3757610 0.3676952 0.3061206 0.2978055
0.2349349
```

```
sum_hobbies <- sum(eigen_hobbies)
```

```
sum_hobbies
```

```
## [1] 32
```

```
## Proportion of variance explained by each component
```

```
propvar_hobbies <- eigen_hobbies/sum_hobbies
```

```
propvar_hobbies
```

```
##      PC1      PC2      PC3      PC4      PC5      PC6
## 0.132472795 0.100588857 0.080087528 0.068552030 0.049078121 0.043339059
##      PC7      PC8      PC9      PC10      PC11      PC12
## 0.036528744 0.035272745 0.034024598 0.031005160 0.028788535 0.027853544
##      PC13      PC14      PC15      PC16      PC17      PC18
## 0.026861573 0.024346185 0.023991126 0.022808142 0.020734014 0.019958849
##      PC19      PC20      PC21      PC22      PC23      PC24
## 0.019504019 0.018338280 0.017255805 0.016613077 0.015738632 0.015504822
##      PC25      PC26      PC27      PC28      PC29      PC30
## 0.014716488 0.013842245 0.012747613 0.011742532 0.011490476 0.009566268
##      PC31      PC32
## 0.009306422 0.007341716
```

```
cumvar_hobbies <- cumsum(propvar_hobbies)
```

```
cumvar_hobbies
```

```
##      PC1      PC2      PC3      PC4      PC5      PC6      PC7
PC8
## 0.1324728 0.2330617 0.3131492 0.3817012 0.4307793 0.4741184 0.5106471
```

```

0.5459199
##          PC9          PC10          PC11          PC12          PC13          PC14          PC15
PC16
## 0.5799445 0.6109496 0.6397382 0.6675917 0.6944533 0.7187995 0.7427906
0.7655987
##          PC17          PC18          PC19          PC20          PC21          PC22          PC23
PC24
## 0.7863328 0.8062916 0.8257956 0.8441339 0.8613897 0.8780028 0.8937414
0.9092462
##          PC25          PC26          PC27          PC28          PC29          PC30          PC31
PC32
## 0.9239627 0.9378050 0.9505526 0.9622951 0.9737856 0.9833519 0.9926583
1.0000000

matlambdas <- rbind(eigen_hobbies,propvar_hobbies,cumvar_hobbies)
rownames(matlambdas) <- c("Eigenvalues","Prop. variance","Cum. prop.
variance")
round(matlambdas,4)

##          PC1          PC2          PC3          PC4          PC5          PC6          PC7
PC8
## Eigenvalues          4.2391 3.2188 2.5628 2.1937 1.5705 1.3868 1.1689
1.1287
## Prop. variance          0.1325 0.1006 0.0801 0.0686 0.0491 0.0433 0.0365
0.0353
## Cum. prop. variance 0.1325 0.2331 0.3131 0.3817 0.4308 0.4741 0.5106
0.5459
##          PC9          PC10          PC11          PC12          PC13          PC14          PC15
PC16
## Eigenvalues          1.0888 0.9922 0.9212 0.8913 0.8596 0.7791 0.7677
0.7299
## Prop. variance          0.0340 0.0310 0.0288 0.0279 0.0269 0.0243 0.0240
0.0228
## Cum. prop. variance 0.5799 0.6109 0.6397 0.6676 0.6945 0.7188 0.7428
0.7656
##          PC17          PC18          PC19          PC20          PC21          PC22          PC23
PC24
## Eigenvalues          0.6635 0.6387 0.6241 0.5868 0.5522 0.5316 0.5036
0.4962
## Prop. variance          0.0207 0.0200 0.0195 0.0183 0.0173 0.0166 0.0157
0.0155
## Cum. prop. variance 0.7863 0.8063 0.8258 0.8441 0.8614 0.8780 0.8937
0.9092
##          PC25          PC26          PC27          PC28          PC29          PC30          PC31
PC32
## Eigenvalues          0.4709 0.4430 0.4079 0.3758 0.3677 0.3061 0.2978
0.2349
## Prop. variance          0.0147 0.0138 0.0127 0.0117 0.0115 0.0096 0.0093
0.0073

```

```
## Cum. prop. variance 0.9240 0.9378 0.9506 0.9623 0.9738 0.9834 0.9927
1.0000
```

```
summary(hobbies_pca)
```

```
## Importance of components:
```

```
##          PC1      PC2      PC3      PC4      PC5      PC6
PC7
```

```
## Standard deviation      2.0589 1.7941 1.60088 1.48110 1.25320 1.17765
1.08117
```

```
## Proportion of Variance 0.1325 0.1006 0.08009 0.06855 0.04908 0.04334
0.03653
```

```
## Cumulative Proportion 0.1325 0.2331 0.31315 0.38170 0.43078 0.47412
0.51065
```

```
##          PC8      PC9      PC10      PC11      PC12      PC13
PC14
```

```
## Standard deviation      1.06242 1.04345 0.99607 0.95981 0.94409 0.92713
0.88265
```

```
## Proportion of Variance 0.03527 0.03402 0.03101 0.02879 0.02785 0.02686
0.02435
```

```
## Cumulative Proportion 0.54592 0.57994 0.61095 0.63974 0.66759 0.69445
0.71880
```

```
##          PC15      PC16      PC17      PC18      PC19      PC20
PC21
```

```
## Standard deviation      0.87619 0.85432 0.81455 0.79918 0.7900 0.76605
0.74309
```

```
## Proportion of Variance 0.02399 0.02281 0.02073 0.01996 0.0195 0.01834
0.01726
```

```
## Cumulative Proportion 0.74279 0.76560 0.78633 0.80629 0.8258 0.84413
0.86139
```

```
##          PC22      PC23      PC24      PC25      PC26      PC27
PC28
```

```
## Standard deviation      0.72912 0.70967 0.7044 0.68624 0.66555 0.63869
0.61299
```

```
## Proportion of Variance 0.01661 0.01574 0.0155 0.01472 0.01384 0.01275
0.01174
```

```
## Cumulative Proportion 0.87800 0.89374 0.9093 0.92396 0.93780 0.95055
0.96230
```

```
##          PC29      PC30      PC31      PC32
```

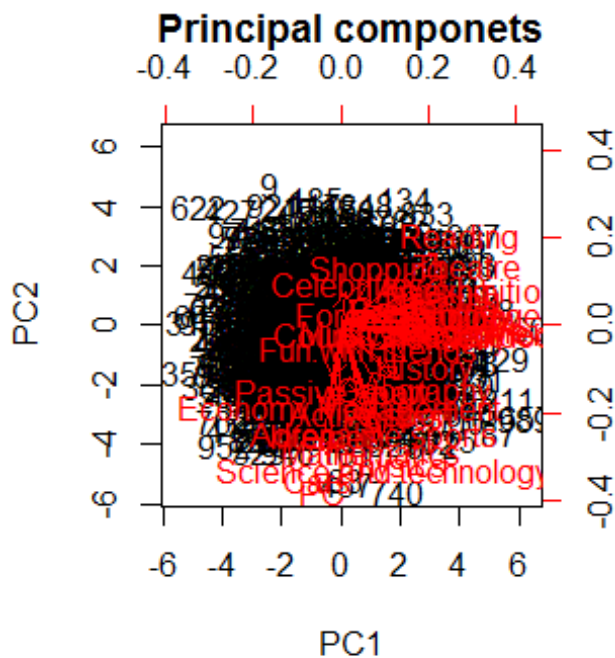
```
## Standard deviation      0.60638 0.55328 0.54572 0.48470
```

```
## Proportion of Variance 0.01149 0.00957 0.00931 0.00734
```

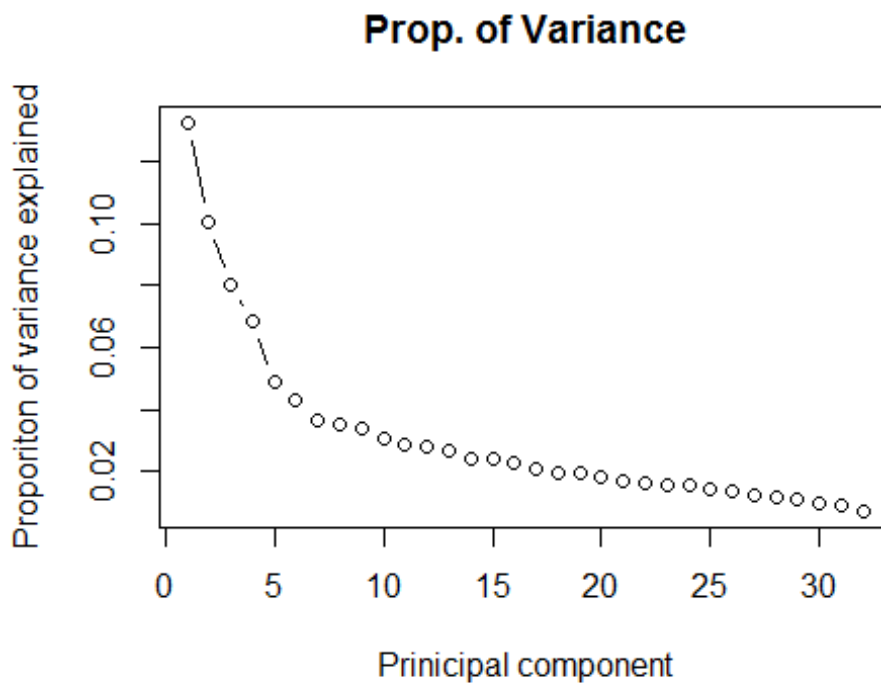
```
## Cumulative Proportion 0.97379 0.98335 0.99266 1.00000
```

```
## Plot a biplot to view components on n-dimensional plane
```

```
biplot(hobbies_pca, scale = 0, main = 'Principal componets')
```



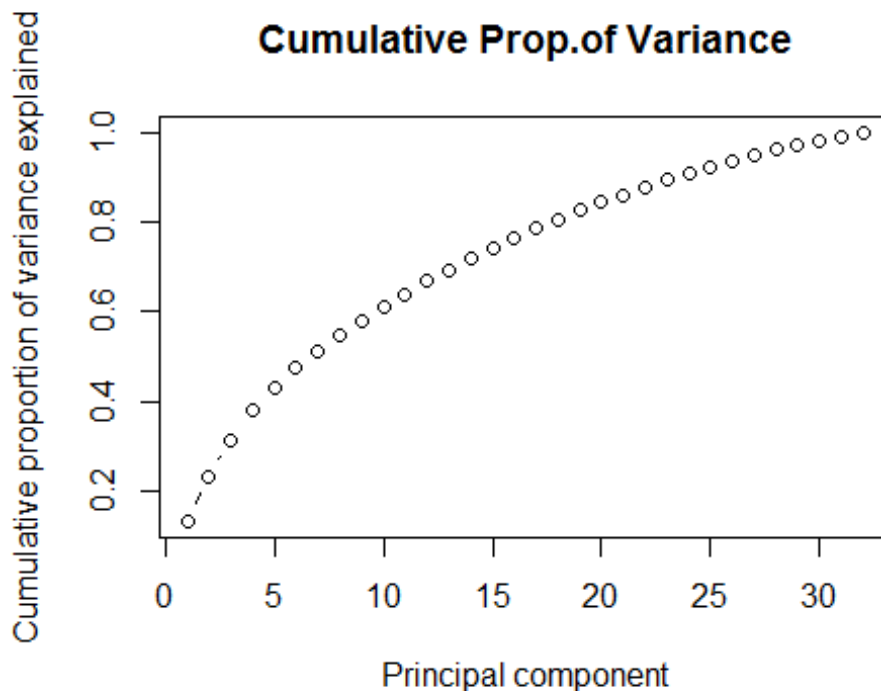
```
##scree plot - to identify the elbow point
plot(propvar_hobbies,xlab = 'Prinicipal component',ylab = 'Proporiton of
variance explained',type = 'b', main = 'Prop. of Variance')
```



```
#The optimum number of components are ~ 8 i.e PC1 : PC8
```

```
# cumulative scree plot
```

```
plot(cumvar_hobbies,xlab = 'Principal component',ylab = 'Cumulative  
proportion of variance explained',type = 'b', main = 'Cumulative Prop.of  
Variance')
```



```
#Approx: ~ 75% of the variance is explained by 20 components i.e PC1 to PC20
```

```
dim(movie_data)
```

```
## [1] 1010 12
```

```
movie_transformed <- data_transformed[,names(movie_data)]
```

```
movie_pca <- prcomp(movie_transformed, scale= T)
```

```
names(movie_pca)
```

```
## [1] "sdev" "rotation" "center" "scale" "x"
```

```
#rotation - represents the Loadings of each variables on components
```

```
movie_pca$rotation
```

```
##          PC1          PC2          PC3          PC4
## Movies    -0.18067387  0.2943522148 -0.29434144  0.1753636709
## Horror    -0.29774492  0.0281326824 -0.48865014 -0.3468640042
## Thriller  -0.38637808  0.0264578000 -0.39885764 -0.3255496550
## Comedy     0.00957783  0.3601720121 -0.23777270  0.5045943972
## Romantic   0.25313650  0.3635153351 -0.09666751  0.2900854864
```



```
## Sci.fi          -0.37660398 0.1182255631 0.04518061 0.1849454105
## War            -0.40483304 0.0003113374 0.24428376 -0.0005316756
## Fantasy.Fairy.tales 0.13147403 0.5530319979 0.14626774 -0.2789775438
## Animated       0.05080348 0.5454401638 0.10708136 -0.3574114799
## Documentary    -0.18889650 0.1506598727 0.47688883 -0.1906702214
## Western        -0.36669650 0.0334098269 0.35553267 0.1424325175
## Action         -0.41171847 0.0941099146 0.03483277 0.3282782261
##               PC5          PC6          PC7          PC8
## Movies         -0.58171966 0.542758857 -0.063103472 -0.05424721
## Horror         0.40181487 -0.053550228 0.101364547 0.06897342
## Thriller       0.03984132 0.113480694 -0.031760285 0.07288430
## Comedy         0.50260892 -0.003243588 -0.318932106 -0.08324422
## Romantic       0.14940500 0.206681921 0.476449707 0.32906483
## Sci.fi         -0.26744131 -0.481445533 0.116396679 0.65269730
## War            0.02545531 0.268568571 0.383612801 -0.25097709
## Fantasy.Fairy.tales -0.03100975 -0.148531492 0.071361143 -0.14464158
## Animated       -0.10495198 -0.237208831 -0.005510402 -0.17859759
## Documentary    0.20900897 0.403789550 -0.512050412 0.41447721
## Western        0.28455333 0.055422480 0.377146568 -0.15168470
## Action         -0.12172688 -0.313963737 -0.292826826 -0.36763211
##               PC9          PC10         PC11         PC12
## Movies         -0.003660409 0.33290656 -0.098891004 0.052868440
## Horror         0.087255268 0.19915946 -0.553794897 0.134689408
## Thriller       -0.297400380 -0.33471692 0.595001950 -0.098215100
## Comedy         0.319128438 0.11521465 0.283954563 -0.044854364
## Romantic       -0.296782981 -0.40454959 -0.215875985 -0.107768793
## Sci.fi         0.212854244 0.10154056 0.087993301 0.041342734
## War            0.604553122 -0.35768442 -0.001701204 -0.009188477
## Fantasy.Fairy.tales -0.017579240 -0.03239820 0.148441139 0.710786335
## Animated       0.071388848 0.08856167 -0.065700856 -0.666511889
## Documentary    -0.061502779 -0.08527072 -0.161446239 0.002305173
## Western        -0.425260296 0.51196209 0.154642040 -0.039639315
## Action         -0.336418372 -0.37950074 -0.343795999 0.054460149
```

Calculate the variance explained by each component

```
eigen_movie <- movie_pca$sdev^2
names(eigen_movie) <- paste("PC",1:12,sep="")
eigen_movie
```

```
##      PC1      PC2      PC3      PC4      PC5      PC6      PC7
PC8
## 2.5328872 2.1154265 1.4605655 1.0037483 0.8077760 0.7887751 0.7483881
0.6730806
##      PC9      PC10      PC11      PC12
## 0.5946969 0.5502757 0.4200133 0.3043667
```

```
sum_movie <- sum(eigen_movie)
sum_movie
```

```
## [1] 12
```

Proportion of variance explained by each component

```
propvar_movie <- eigen_movie/sum_movie  
propvar_movie
```

```
##          PC1          PC2          PC3          PC4          PC5          PC6  
PC7  
## 0.21107393 0.17628555 0.12171380 0.08364569 0.06731467 0.06573126  
0.06236568  
##          PC8          PC9          PC10          PC11          PC12  
## 0.05609005 0.04955807 0.04585630 0.03500111 0.02536389
```

```
cumvar_movie <- cumsum(propvar_movie)  
cumvar_movie
```

```
##          PC1          PC2          PC3          PC4          PC5          PC6          PC7  
PC8  
## 0.2110739 0.3873595 0.5090733 0.5927190 0.6600336 0.7257649 0.7881306  
0.8442206  
##          PC9          PC10          PC11          PC12  
## 0.8937787 0.9396350 0.9746361 1.0000000
```

```
matlambdas_movie <- rbind(eigen_movie,propvar_movie,cumvar_movie)  
rownames(matlambdas_movie) <- c("Eigenvalues","Prop. variance","Cum. prop.  
variance")  
round(matlambdas_movie,4)
```

```
##          PC1          PC2          PC3          PC4          PC5          PC6          PC7  
PC8  
## Eigenvalues          2.5329 2.1154 1.4606 1.0037 0.8078 0.7888 0.7484  
0.6731  
## Prop. variance          0.2111 0.1763 0.1217 0.0836 0.0673 0.0657 0.0624  
0.0561  
## Cum. prop. variance 0.2111 0.3874 0.5091 0.5927 0.6600 0.7258 0.7881  
0.8442  
##          PC9          PC10          PC11          PC12  
## Eigenvalues          0.5947 0.5503 0.4200 0.3044  
## Prop. variance          0.0496 0.0459 0.0350 0.0254  
## Cum. prop. variance 0.8938 0.9396 0.9746 1.0000
```

```
summary(movie_pca)
```

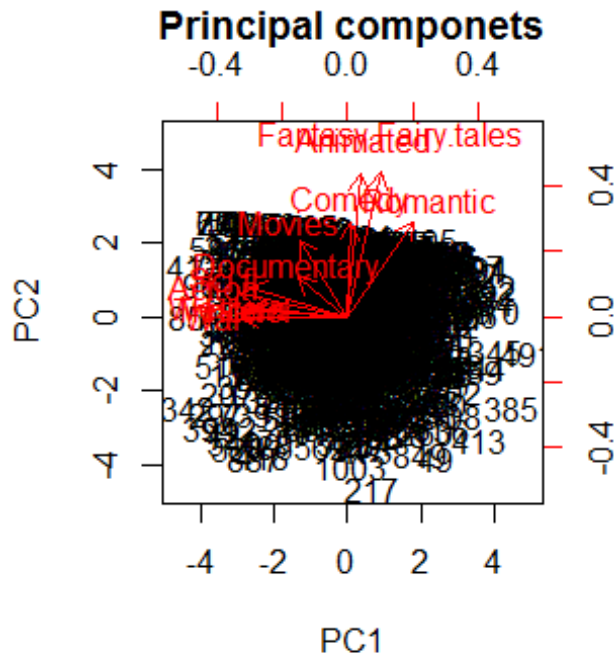
```
## Importance of components:
```

```
##          PC1          PC2          PC3          PC4          PC5          PC6  
PC7  
## Standard deviation    1.5915 1.4545 1.2085 1.00187 0.89876 0.88813  
0.86509  
## Proportion of Variance 0.2111 0.1763 0.1217 0.08365 0.06731 0.06573  
0.06237  
## Cumulative Proportion 0.2111 0.3874 0.5091 0.59272 0.66003 0.72576  
0.78813
```

```
##
## Standard deviation      PC8      PC9      PC10     PC11     PC12
## Proportion of Variance 0.05609 0.04956 0.04586 0.0350 0.02536
## Cumulative Proportion  0.84422 0.89378 0.93963 0.9746 1.00000
```

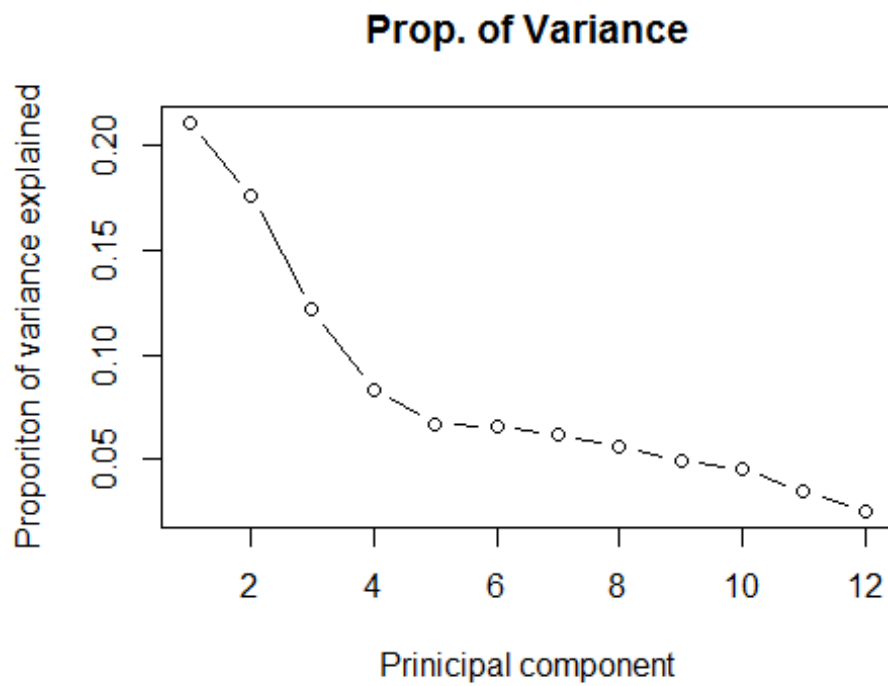
Plot a biplot to view components on n-dimensional plane

```
biplot(movie_pca, scale = 0, main = 'Principal componets')
```



##scree plot - to identify the elbow point

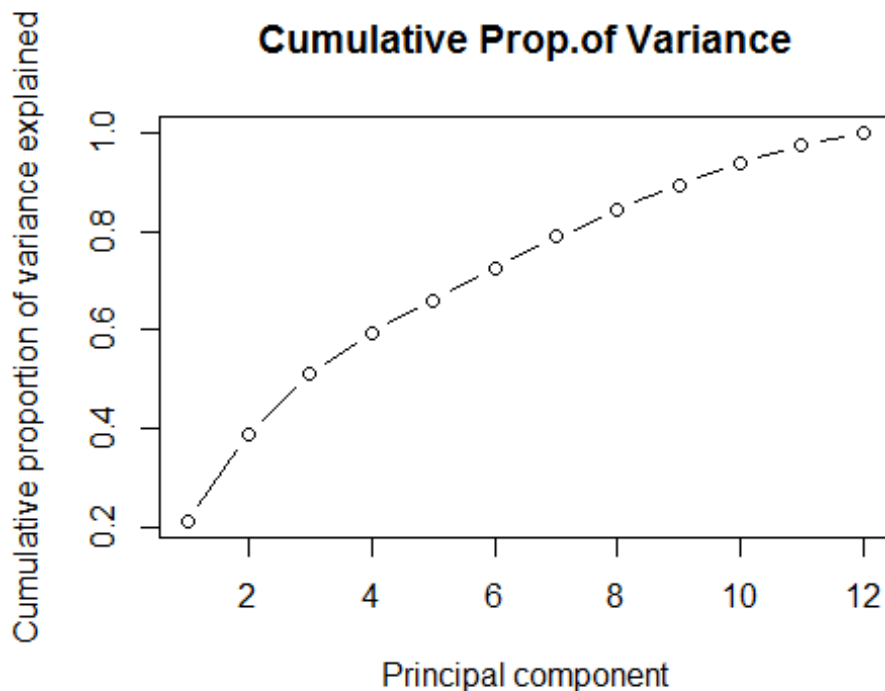
```
plot(propvar_movie,xlab = 'Prinicipal component',ylab = 'Proporiton of
variance explained',type = 'b', main = 'Prop. of Variance')
```



#The optimum number of components are ~ 5 i.e PC1 : PC5

cumulative scree plot

```
plot(cumvar_movie,xlab = 'Principal component',ylab = 'Cumulative proportion  
of variance explained',type = 'b', main = 'Cumulative Prop.of Variance')
```



#Approx: ~ 75% of the variance is explained by 8 components i.e PC1 to PC8

```
dim(music_data)
```

```
## [1] 1010 19
```

```
music_transformed <- data_transformed[,names(music_data)]
```

```
music_pca <- prcomp(music_transformed, scale= T)
```

```
names(music_pca)
```

```
## [1] "sdev" "rotation" "center" "scale" "x"
```

#rotation - represents the Loadings of each variables on components

```
music_pca$rotation
```

##	PC1	PC2	PC3	PC4
## Music	-0.07348587	-0.06637258	0.20393520	-0.27285334
## Slow.songs.or.fast.songs	0.07909389	-0.03715789	0.33673187	-0.38692865
## Dance	0.10593604	-0.40686613	0.25266992	-0.18809943
## Folk	-0.23536427	-0.20395715	-0.17735902	-0.15261096
## Country	-0.22165587	-0.16378995	-0.08826069	-0.07278389
## Classical.music	-0.33427216	-0.11363745	-0.22530674	-0.19648989
## Musical	-0.21306339	-0.27761360	-0.19176926	-0.04813964
## Pop	0.07948200	-0.36864939	0.10610310	-0.08628967
## Rock	-0.31408320	0.16381242	0.24497619	-0.13760973
## Metal.or.Hardrock	-0.26788754	0.27493723	0.20888397	-0.20728971
## Punk	-0.25877936	0.22880832	0.32746991	-0.01776324
## Hiphop..Rap	0.14668504	-0.28399372	0.32226482	0.21487767

## Reggae..Ska	-0.17063495	-0.13437788	0.33404941	0.51149310
## Swing..Jazz	-0.32246691	-0.16834386	0.02878952	0.30067030
## Rock.n.roll	-0.35567777	-0.02784195	0.15705958	0.11136720
## Alternative	-0.29273952	0.12627082	0.16107910	0.04377580
## Latino	-0.11432176	-0.39837369	-0.03575959	0.17249177
## Techno..Trance	0.09648161	-0.23597716	0.27927306	-0.33307335
## Opera	-0.28734109	-0.14638664	-0.29342147	-0.21923779
##	PC5	PC6	PC7	PC8
## Music	0.32592753	-0.47761802	0.53270546	-0.19974554
## Slow.songs.or.fast.songs	-0.07423270	0.07177854	0.12369657	-0.47694134
## Dance	-0.05577652	0.06055365	-0.05942948	0.21887240
## Folk	-0.26544668	0.20827679	0.30003736	-0.17663204
## Country	-0.24305255	0.49366779	0.40798558	0.10106895
## Classical.music	-0.13812859	-0.25098533	-0.22358870	-0.01890419
## Musical	0.32990755	0.04105766	-0.22303756	-0.29312977
## Pop	0.46499371	0.15721120	-0.19059791	0.13285282
## Rock	0.31499048	0.14180077	-0.08393359	0.20370011
## Metal.or.Hardrock	-0.07920439	0.21455617	-0.19275758	-0.01276431
## Punk	0.03787992	0.19456396	-0.23696787	-0.16828955
## Hiphop..Rap	-0.14591724	-0.05330011	-0.16891849	-0.21654015
## Reggae..Ska	-0.18318806	0.01510496	-0.02608224	-0.33284595
## Swing..Jazz	-0.09855736	-0.27677329	0.06829684	0.13525914
## Rock.n.roll	0.15407054	0.08154945	0.17375175	0.27605014
## Alternative	-0.10328380	-0.37016042	0.05279782	0.17869982
## Latino	0.16866976	0.09636174	0.05687371	0.07392996
## Techno..Trance	-0.40272503	-0.16159061	-0.17221071	0.36838201
## Opera	-0.12224120	-0.15441720	-0.32365349	-0.21004774
##	PC9	PC10	PC11	
PC12				
## Music	0.407713408	-0.08118246	0.163265029	-
0.046192469				
## Slow.songs.or.fast.songs	-0.626930018	-0.15449805	-0.117591247	
0.142963357				
## Dance	-0.005060525	0.15836972	-0.001963950	
0.034498068				
## Folk	0.101978314	0.59768376	-0.044187886	
0.266968801				
## Country	0.187947460	-0.34757560	-0.176241400	-
0.296622461				
## Classical.music	0.074840699	-0.11353868	-0.197110022	
0.215496597				
## Musical	-0.127942176	-0.06550861	0.043660995	-
0.530976566				
## Pop	0.089375763	0.17576542	-0.360479495	
0.206155249				
## Rock	0.093377372	-0.01603115	0.012947358	
0.194189967				
## Metal.or.Hardrock	0.095803135	-0.09200573	0.378608727	
0.148009287				
## Punk	0.188934780	0.18211426	-0.009197961	-

0.136728601			
## Hip-hop..Rap	0.291127995	-0.19951768	-0.212893673
0.016816754			
## Reggae..Ska	0.109227439	0.09666073	0.055259444 -
0.033726863			
## Swing..Jazz	-0.180981008	-0.25859960	0.011764742
0.393901884			
## Rock.n.roll	-0.227212134	-0.21678701	-0.222790454 -
0.050344008			
## Alternative	-0.252502677	0.43193360	-0.239920191 -
0.392991837			
## Latino	-0.233292591	0.10051712	0.644329108
0.009843656			
## Techno..Trance	0.049583019	-0.05716672	0.202874089 -
0.232242161			
## Opera	0.098588439	-0.11619488	0.012943917
0.014313820			
##	PC13	PC14	PC15
PC16			
## Music	0.049792397	-0.02112800	-0.021711972 -
0.024489556			
## Slow.songs.or.fast.songs	0.003296287	-0.12450736	0.072331948 -
0.011696895			
## Dance	0.305288988	0.10278145	-0.636427969
0.312758934			
## Folk	-0.152396906	0.33786207	0.078929868 -
0.115326873			
## Country	0.033698701	-0.30836572	0.067818499
0.203982029			
## Classical.music	-0.081254762	-0.22963497	0.078587122
0.183762909			
## Musical	0.012225873	0.44293088	0.107137446
0.250791103			
## Pop	0.039315867	-0.21197082	0.351688766 -
0.023506412			
## Rock	-0.019546117	0.05416288	0.143052503
0.071888142			
## Metal.or.Hardrock	-0.239674138	0.16759903	0.028215133
0.274542443			
## Punk	0.158206848	-0.23587526	-0.223276307 -
0.151087803			
## Hip-hop..Rap	-0.650067679	0.07539266	-0.148338423 -
0.004739777			
## Reggae..Ska	0.409507673	-0.01913020	0.255708315 -
0.040735037			
## Swing..Jazz	0.161510400	0.13579529	0.038880226
0.271349720			
## Rock.n.roll	-0.090920432	0.29860848	-0.205885619 -
0.545870152			
## Alternative	-0.244048277	-0.23543333	-0.004240393

```

0.204720244
## Latino -0.277520061 -0.40294002 -0.040696024 -
0.117740140
## Techno..Trance 0.085649349 0.14642498 0.421244095 -
0.240536719
## Opera 0.142288289 -0.17563687 -0.235717510 -
0.398788272
## PC17 PC18 PC19
## Music -0.066875434 2.567921e-02 0.07345943
## Slow.songs.or.fast.songs 0.033053577 -1.410316e-02 -0.04974487
## Dance 0.140182891 -2.906194e-02 0.11125996
## Folk -0.051850387 -3.490200e-02 -0.10739444
## Country 0.006149017 9.814582e-02 -0.06497751
## Classical.music 0.028773192 -5.759827e-01 0.34337770
## Musical -0.066238082 -8.145992e-02 -0.07751286
## Pop -0.216265041 2.928257e-01 0.17206160
## Rock 0.583382189 -1.360268e-01 -0.43938942
## Metal.or.Hardrock -0.119696729 3.588220e-01 0.43444249
## Punk -0.523054151 -2.601956e-01 -0.25901292
## Hiphop..Rap 0.056186635 8.017653e-03 -0.15671264
## Reggae..Ska 0.302779309 9.179124e-05 0.28654917
## Swing..Jazz -0.369360329 1.762901e-01 -0.35365088
## Rock.n.roll -0.039227337 -8.664268e-02 0.31816965
## Alternative 0.084954381 2.479808e-01 0.01148615
## Latino 0.008442401 -1.256294e-01 -0.01498152
## Techno..Trance -0.095918082 -8.103699e-02 -0.10837567
## Opera 0.206245145 4.752428e-01 -0.12849210

# Calculate the variance explained by each component
eigen_music <- music_pca$sdev^2
names(eigen_music) <- paste("PC",1:19,sep="")
eigen_music

## PC1 PC2 PC3 PC4 PC5 PC6 PC7
PC8
## 3.8053009 2.6634739 1.9555901 1.1307190 1.1176877 1.0349666 0.8881561
0.8590806
## PC9 PC10 PC11 PC12 PC13 PC14 PC15
PC16
## 0.7991110 0.6495392 0.6424224 0.5720013 0.4996263 0.4616361 0.4427409
0.4127463
## PC17 PC18 PC19
## 0.3801299 0.3576233 0.3274485

sum_music <- sum(eigen_music)
sum_music

## [1] 19

## Proportion of variance explained by each component

```



```

propvar_music <- eigen_music/sum_music
propvar_music

##          PC1          PC2          PC3          PC4          PC5          PC6
PC7
## 0.20027900 0.14018284 0.10292580 0.05951152 0.05882567 0.05447193
0.04674506
##          PC8          PC9          PC10          PC11          PC12          PC13
PC14
## 0.04521477 0.04205847 0.03418627 0.03381170 0.03010533 0.02629612
0.02429663
##          PC15          PC16          PC17          PC18          PC19
## 0.02330215 0.02172349 0.02000684 0.01882228 0.01723413

cumvar_music <- cumsum(propvar_music)
cumvar_music

##          PC1          PC2          PC3          PC4          PC5          PC6          PC7
PC8
## 0.2002790 0.3404618 0.4433876 0.5028992 0.5617248 0.6161967 0.6629418
0.7081566
##          PC9          PC10          PC11          PC12          PC13          PC14          PC15
PC16
## 0.7502151 0.7844013 0.8182130 0.8483184 0.8746145 0.8989111 0.9222133
0.9439368
##          PC17          PC18          PC19
## 0.9639436 0.9827659 1.0000000

matlambdas_music <- rbind(eigen_music,propvar_music,cumvar_music)
rownames(matlambdas_music) <- c("Eigenvalues","Prop. variance","Cum. prop.
variance")
round(matlambdas_music,4)

##          PC1          PC2          PC3          PC4          PC5          PC6          PC7
PC8
## Eigenvalues          3.8053 2.6635 1.9556 1.1307 1.1177 1.0350 0.8882
0.8591
## Prop. variance          0.2003 0.1402 0.1029 0.0595 0.0588 0.0545 0.0467
0.0452
## Cum. prop. variance 0.2003 0.3405 0.4434 0.5029 0.5617 0.6162 0.6629
0.7082
##          PC9          PC10          PC11          PC12          PC13          PC14          PC15
PC16
## Eigenvalues          0.7991 0.6495 0.6424 0.5720 0.4996 0.4616 0.4427
0.4127
## Prop. variance          0.0421 0.0342 0.0338 0.0301 0.0263 0.0243 0.0233
0.0217
## Cum. prop. variance 0.7502 0.7844 0.8182 0.8483 0.8746 0.8989 0.9222
0.9439
##          PC17          PC18          PC19
## Eigenvalues          0.3801 0.3576 0.3274

```

```

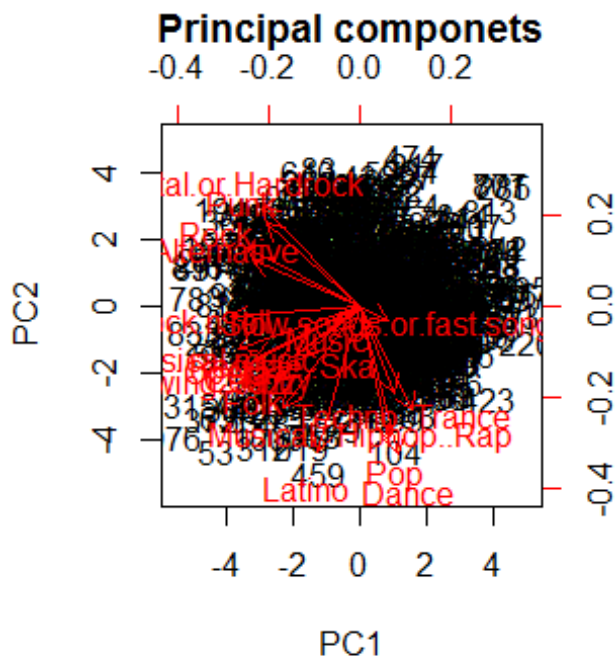
## Prop. variance      0.0200 0.0188 0.0172
## Cum. prop. variance 0.9639 0.9828 1.0000

summary(music_pca)

## Importance of components:
##
##          PC1      PC2      PC3      PC4      PC5      PC6
PC7
## Standard deviation    1.9507 1.6320 1.3984 1.06335 1.05721 1.01733
0.94242
## Proportion of Variance 0.2003 0.1402 0.1029 0.05951 0.05883 0.05447
0.04675
## Cumulative Proportion 0.2003 0.3405 0.4434 0.50290 0.56172 0.61620
0.66294
##
##          PC8      PC9      PC10     PC11     PC12     PC13
PC14
## Standard deviation    0.92687 0.89393 0.80594 0.80151 0.75631 0.7068
0.6794
## Proportion of Variance 0.04521 0.04206 0.03419 0.03381 0.03011 0.0263
0.0243
## Cumulative Proportion 0.70816 0.75022 0.78440 0.81821 0.84832 0.8746
0.8989
##
##          PC15     PC16     PC17     PC18     PC19
## Standard deviation  0.6654 0.64245 0.61655 0.59802 0.57223
## Proportion of Variance 0.0233 0.02172 0.02001 0.01882 0.01723
## Cumulative Proportion 0.9222 0.94394 0.96394 0.98277 1.00000

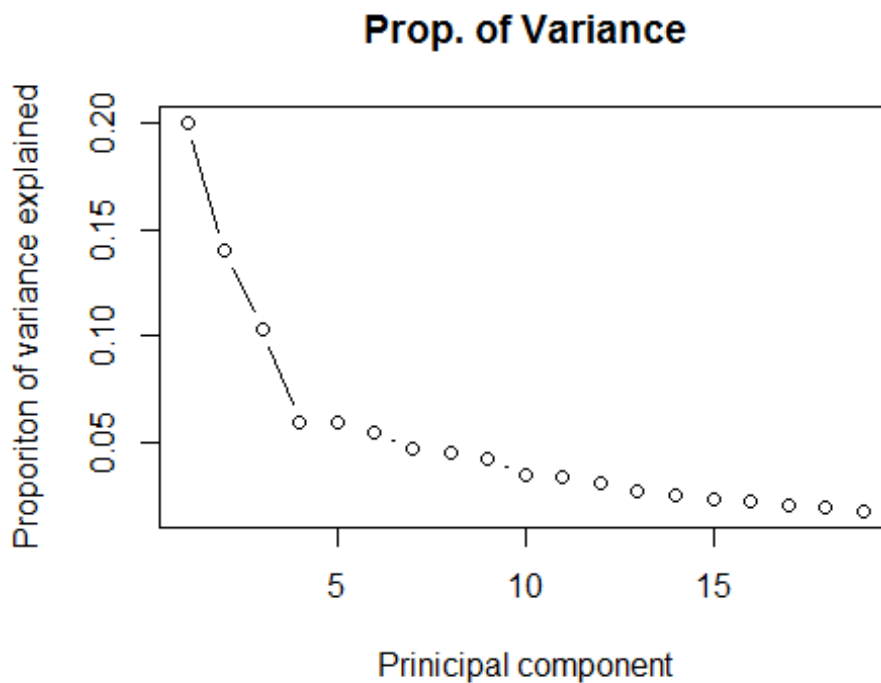
## Plot a biplot to view components on n-dimensional plane
biplot(music_pca, scale = 0, main = 'Principal componets')

```



##scree plot - to identify the elbow point

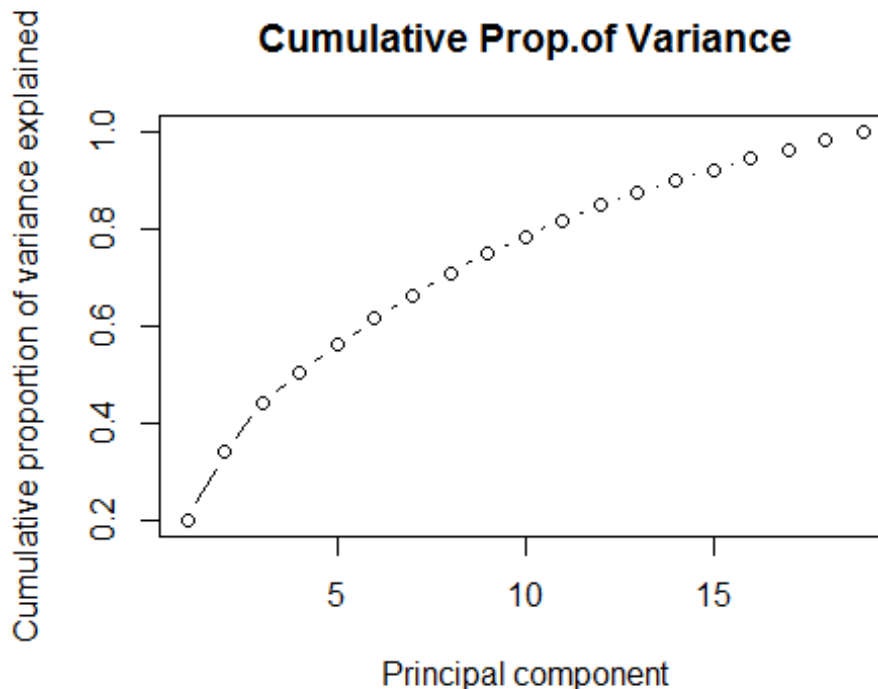
```
plot(propvar_music,xlab = 'Prinicipal component',ylab = 'Proporiton of
variance explained',type = 'b', main = 'Prop. of Variance')
```



```
#The optimum number of components are ~ 4 i.e PC1 : PC4
```

```
# cumulative scree plot
```

```
plot(cumvar_music,xlab = 'Principal component',ylab = 'Cumulative proportion  
of variance explained',type = 'b', main = 'Cumulative Prop.of Variance')
```



```
#Approx: ~ 75% of the variance is explained by 8 components i.e PC1 to PC8
```

```
library(cluster)
```

```
## Warning: package 'cluster' was built under R version 3.6.2
```

Data Cluster

Movie Preferences Cluster (Hierarcical Clustering)

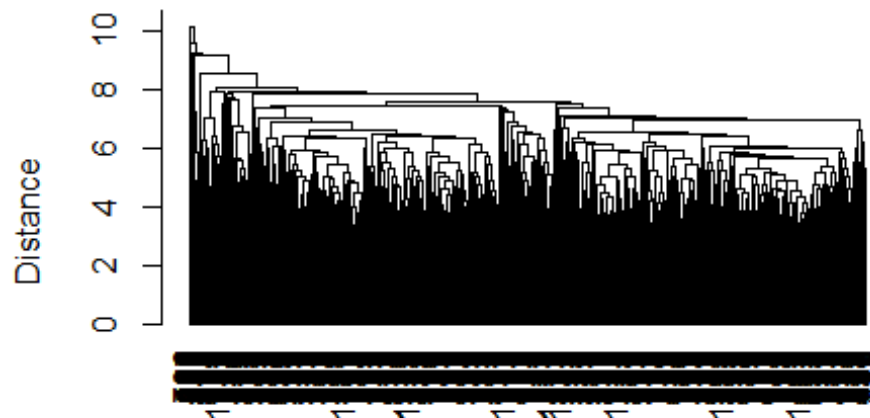
```
dim(music_trans)
```

```
## [1] 1010 19
```

Given to our variables value is the same dimension, We don't need to normalize the data and form the cluster fit directly.

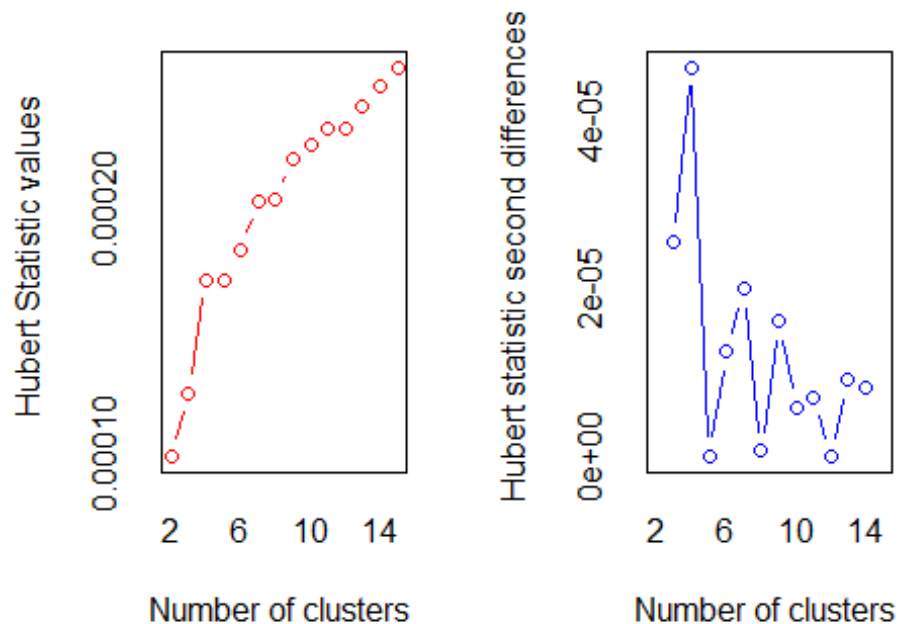
```
dist.mat5 = music_trans  
mat5.nn <- hclust(dist(dist.mat5, method = "euclidean"), method = "average")  
plot(mat5.nn, hang=-1,xlab="Object",ylab="Distance",  
      main="Dendrogram. Nearest neighbor linkage")
```

Dendrogram. Nearest neighbor linkage

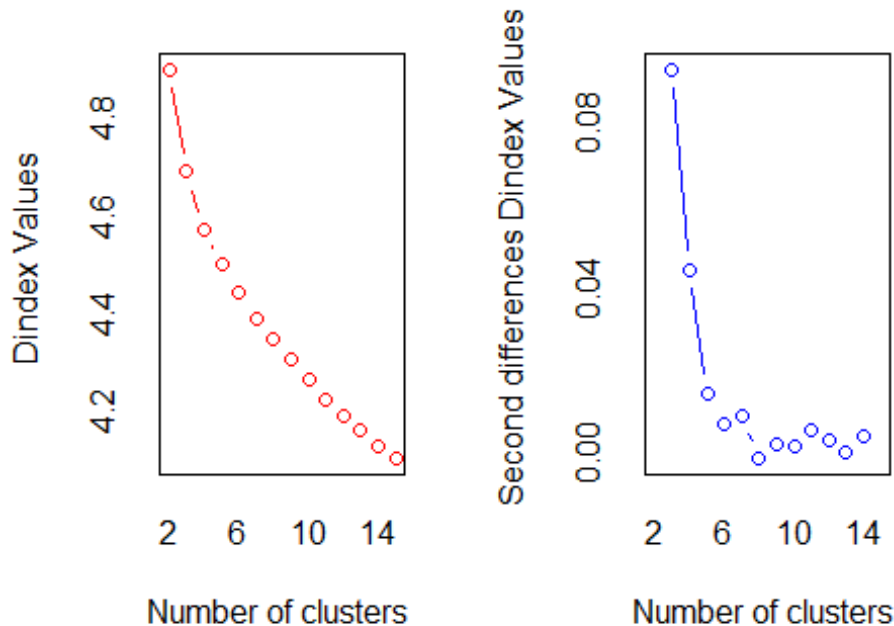


Object
hclust (*, "average")

```
#use agglomerative hierarchical clustering to cluster  
hc_mod = hclust(dist(music_trans, method = "euclidean"), method = "ward.D")  
plot(hc_mod, hang = -0.01, cex = 0.7)
```

```
## *** : The Hubert index is a graphical method of determining the number of
clusters.
##           In the plot of Hubert index, we seek a significant knee
that corresponds to a
##           significant increase of the value of the measure i.e the
significant peak in Hubert
##           index second differences plot.
##
```



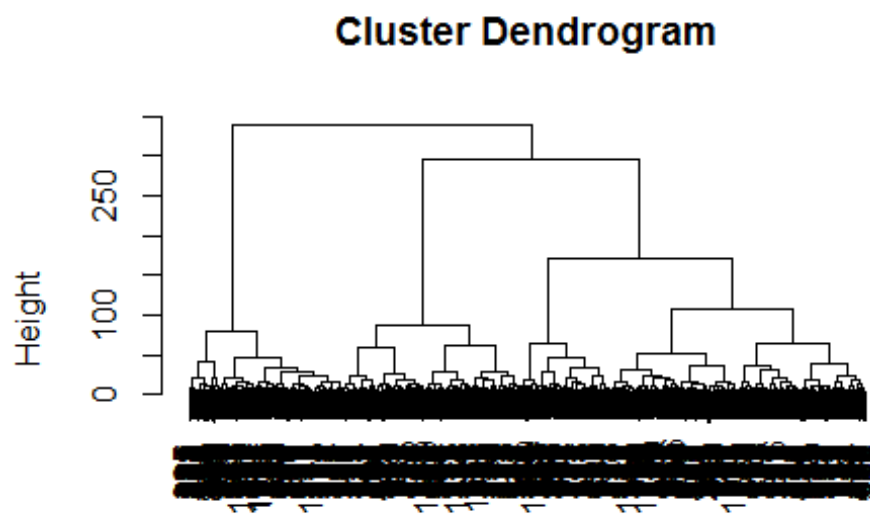
```
## *** : The D index is a graphical method of determining the number of
clusters.
##           In the plot of D index, we seek a significant knee (the
significant peak in Dindex
##           second differences plot) that corresponds to a significant
increase of the value of
##           the measure.
##
## *****
## * Among all indices:
## * 4 proposed 2 as the best number of clusters
## * 11 proposed 3 as the best number of clusters
## * 4 proposed 4 as the best number of clusters
## * 1 proposed 9 as the best number of clusters
## * 1 proposed 10 as the best number of clusters
## * 2 proposed 15 as the best number of clusters
##
##           ***** Conclusion *****
##
## * According to the majority rule, the best number of clusters is  3
##
## *****
```

Next step is cut the tree to into different clusters.

```
fit_model = cutree(hc_mod, k=3)
```



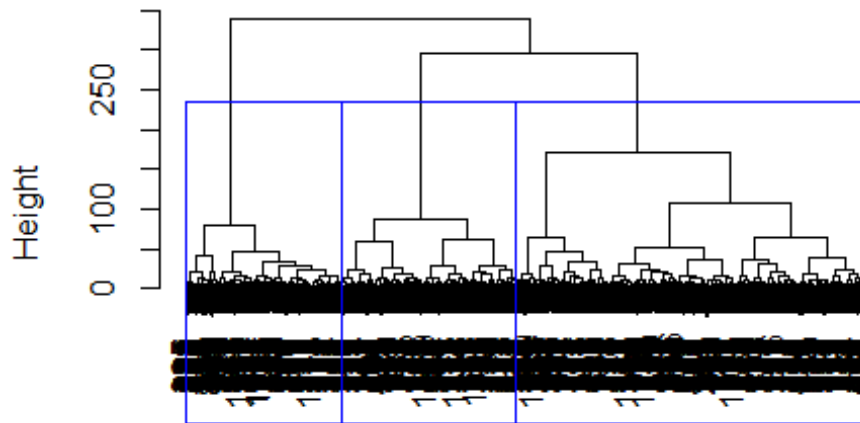
```
plot(hc_mod)
```



```
dist(music_trans, method = "euclidean")  
hclust (*, "ward.D")
```

```
plot(hc_mod)  
rect.hclust(hc_mod, k= 3, border = "blue")
```

Cluster Dendrogram



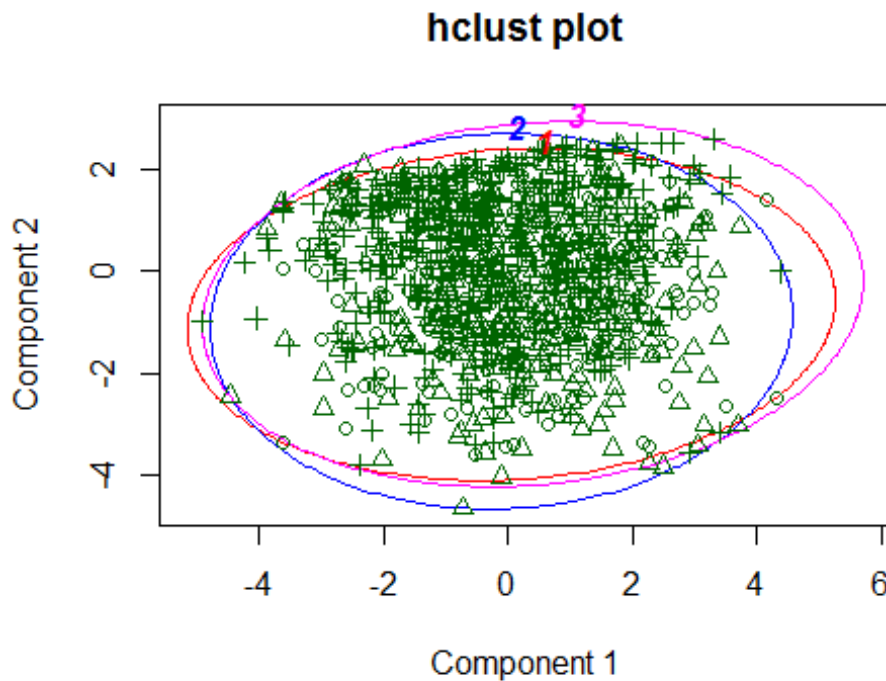
```
dist(music_trans, method = "euclidean")
hclust (*, "ward.D")
```

#segment inspection

```
aggregate(movie_trans, by=list(cluster=fit_model), mean)
```

```
## cluster Movies Horror Thriller Comedy Romantic Sci.fi War
## 1 1 4.584416 3.034632 3.463203 4.597403 3.316017 3.017316 3.225108
## 2 2 4.616858 2.823755 3.517241 4.298851 3.042146 3.210728 3.272031
## 3 3 4.623552 2.667954 3.277992 4.550193 3.791506 3.098456 3.065637
## Fantasy.Fairy.tales Animated Documentary Western Action
## 1 3.376623 3.519481 3.406926 1.874459 3.679654
## 2 3.513410 3.689655 3.724138 2.130268 3.440613
## 3 4.034749 3.959459 3.706564 2.239382 3.515444
```

```
clusplot(movie_trans, fit_model, color=TRUE, labels = 4, lines=0, main
="hclust plot")
```

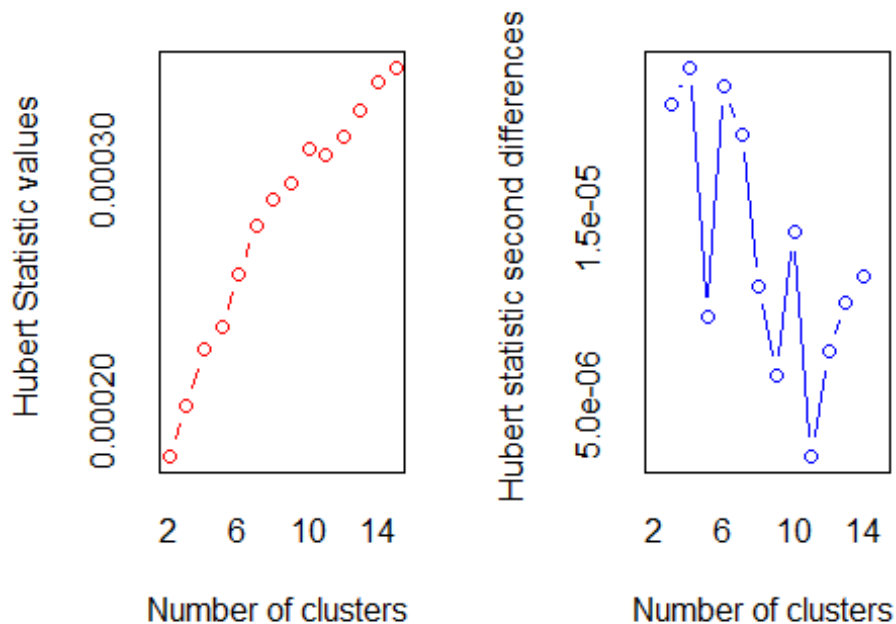


These two components explain 38.74 % of the point variab

The cluster is cut clearly, but as the segment description shows that this cluster is kind of odd. Three groups are unbalance distribution, the first variable, which is general in this topic, has only a value.

K-means cluster

```
#Decide the number of cluster before starting the K-mean fit form.  
nb_clust2 = NbClust(movie_trans, min.nc=2, max.nc=15, method="kmeans")
```



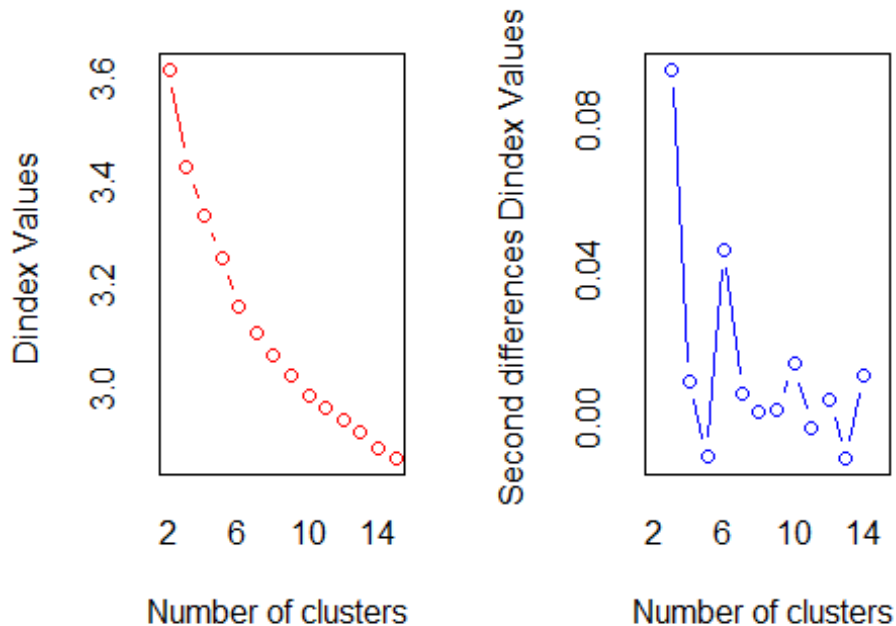
*** : The Hubert index is a graphical method of determining the number of clusters.

In the plot of Hubert index, we seek a significant knee that corresponds to a

significant increase of the value of the measure i.e the significant peak in Hubert

index second differences plot.

##



```
## *** : The D index is a graphical method of determining the number of
clusters.
##           In the plot of D index, we seek a significant knee (the
significant peak in Dindex
##           second differences plot) that corresponds to a significant
increase of the value of
##           the measure.
##
## *****
## * Among all indices:
## * 7 proposed 2 as the best number of clusters
## * 11 proposed 3 as the best number of clusters
## * 1 proposed 6 as the best number of clusters
## * 1 proposed 9 as the best number of clusters
## * 1 proposed 10 as the best number of clusters
## * 2 proposed 15 as the best number of clusters
##
##           ***** Conclusion *****
##
## * According to the majority rule, the best number of clusters is  3
##
## *****
#table(nc2$Best.n[1,])
```

It's still 3 with Kmeans.

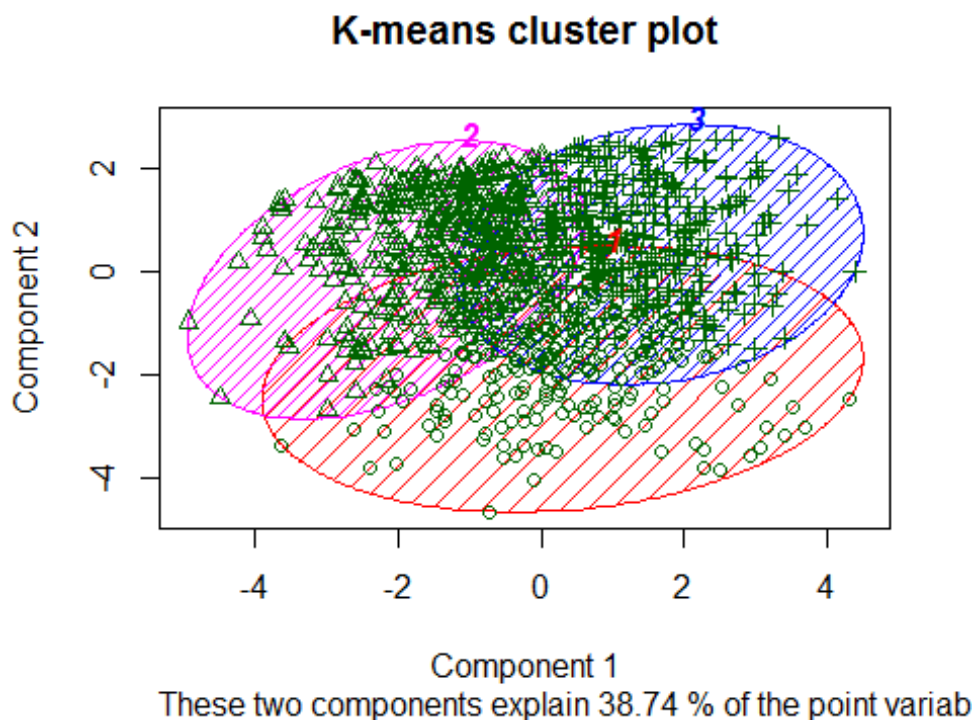
```

set.seed(101)
km_mo <- kmeans(movie_trans, 3)
aggregate(movie_trans, by=list(cluster=km_mo$cluster), mean)

##   cluster  Movies  Horror Thriller  Comedy Romantic  Sci.fi  War
## 1      1 4.449827 2.913495 3.494810 4.145329 2.837370 2.951557 3.173010
## 2      2 4.576316 2.176316 2.721053 4.607895 4.068421 2.378947 2.334211
## 3      3 4.791789 3.375367 4.023460 4.668622 3.395894 4.055718 4.055718
##   Fantasy.Fairy.tales Animated Documentary Western Action
## 1      2.484429 2.422145      3.346021 2.086505 3.477509
## 2      4.421053 4.350000      3.463158 1.600000 2.873684
## 3      4.073314 4.322581      4.093842 2.750733 4.316716

clusplot(movie_trans, km_mo$cluster, color=TRUE, shade=TRUE,
          labels=4, lines=0, main="K-means cluster plot")

```



According to the kmeans cluster result, I can barely name the three cluster as:

cluster 3: movie enthduasiasts, love all kind of movie except romantic and Fantasy/Fairy tales
 cluster 1: normal movie consumer, focus on romantic, Fantasy/Fairy tales, comedy, and no feeling on horror, thriller, war, and western
 cluster 2: specific kind of movie lover, focus on war, thriller, action

comparing the three clusters demographics characters:

```

demo_trans = data_transformed[,names(demo_data)]

aggregate(demo_trans[,1:4], by = list(km_mo$cluster), mean)

```

```
##   Group.1      Age   Height   Weight Number.of.siblings
## 1      1 20.67474 175.3253 69.12111      1.231834
## 2      2 20.12895 169.1082 60.02105      1.300000
## 3      3 20.37537 177.0254 70.24047      1.351906

round(prop.table(table(km_mo$cluster, demo_trans$Gender),1),2)

##
##           female male
## 1 0.01    0.45 0.54
## 2 0.01    0.90 0.10
## 3 0.01    0.35 0.64

round(prop.table(table(demo_trans$Education, km_mo$cluster),2),2)

##
##                1    2    3
##                0.00 0.00 0.00
## college/bachelor degree      0.22 0.22 0.20
## currently a primary school pupil 0.01 0.01 0.01
## doctorate degree             0.01 0.00 0.00
## masters degree               0.10 0.08 0.07
## primary school               0.06 0.09 0.09
## secondary school             0.60 0.62 0.63

round(prop.table(table(km_mo$cluster, demo_data$Village...town),1),2)

##
##           city village
## 1 0.01 0.72    0.27
## 2 0.00 0.69    0.31
## 3 0.00 0.70    0.30

round(prop.table(table(km_mo$cluster,
demo_trans$House...block.of.flats),1),2)

##
##           block of flats house/bungalow
## 1 0.01    0.60    0.39
## 2 0.01    0.58    0.42
## 3 0.00    0.59    0.41
```

As you can see, the most difference between them is gender:

cluster 3: movie enthusiasts are mainly guys cluster 1: normal movie consumers are mostly girls cluster 2: specific kind of movie lover are more elder but quite equal on gender

Factor Analysis

```
#hobbies_pca
#movie_pca
```

```
#music_pca
```

```
eigvec.hobbies<- hobbies_pca$rotation
```

```
pcafactors.hobbies<- eigvec.hobbies[,1:4]
```

```
pcafactors.hobbies
```

##	PC1	PC2	PC3	PC4
## History	0.188458129	-0.09972504	0.191659752	-0.22991541
## Psychology	0.230036558	0.01786097	0.099845621	-0.12092486
## Politics	0.123498901	-0.20221515	0.261041540	-0.21465574
## Mathematics	0.071298342	-0.28497563	-0.148794306	-0.11696119
## Physics	0.117537829	-0.32127215	-0.264318100	-0.13787033
## Internet	-0.047107481	-0.24945405	0.114615245	0.10689102
## PC	-0.040810044	-0.37916578	-0.026702872	-0.01947711
## Economy.Management	-0.004247973	-0.19189231	0.297016846	0.01081594
## Biology	0.275152415	0.02013486	-0.351237734	0.16443892
## Chemistry	0.220249354	-0.02970157	-0.402713435	0.09655225
## Reading	0.273290822	0.20243199	0.075074553	-0.17176942
## Geography	0.165733285	-0.15102913	0.150868856	-0.07075296
## Foreign.languages	0.196795893	0.01943294	0.224850707	-0.01840982
## Medicine	0.283815963	-0.01061050	-0.296379491	0.11658962
## Law	0.139885598	-0.14966276	0.276167023	-0.02315421
## Cars	-0.054065830	-0.35287817	0.054454401	0.15197566
## Art.exhibitions	0.307286358	0.08363239	0.106223775	-0.05528705
## Religion	0.234554023	-0.02118824	-0.009334782	-0.16050540
## Countryside..outdoors	0.196673276	-0.02578241	-0.009371219	0.11783931
## Dancing	0.232312679	0.05907080	0.086621432	0.24672526
## Musical.instruments	0.216399667	-0.01219800	-0.012291430	-0.08626889
## Writing	0.231718611	0.07397364	0.067636420	-0.15644741
## Passive.sport	-0.023439504	-0.15300983	0.051616951	0.20587472
## Active.sport	0.069058573	-0.20429023	0.043485929	0.24414843
## Gardening	0.192890484	0.03464648	-0.080288637	0.18959498
## Celebrities	0.015776035	0.09462840	0.186510020	0.34123592
## Shopping	0.083917204	0.12707686	0.199581102	0.39774969
## Science.and.technology	0.097311047	-0.33700031	-0.117622329	-0.03484404
## Theatre	0.293866571	0.13860458	0.110875136	-0.03254494
## Fun.with.friends	0.062460243	-0.05187930	0.139364342	0.26018379
## Adrenaline.sports	0.074602609	-0.25199639	0.062705429	0.22378600
## Pets	0.087440530	0.03835047	-0.026758239	0.25545973

```
unrot.fact.hobbies<-
```

```
sweep(pcafactors.hobbies,MARGIN=2,hobbies_pca$sdev[1:4],`*`)
```

```
unrot.fact.hobbies
```

##	PC1	PC2	PC3	PC4
## History	0.388019198	-0.17891805	0.30682331	-0.34052832
## Psychology	0.473625633	0.03204461	0.15984036	-0.17910213
## Politics	0.254273693	-0.36279694	0.41789489	-0.31792717
## Mathematics	0.146797198	-0.51127864	-0.23820109	-0.17323152
## Physics	0.242000355	-0.57639873	-0.42314025	-0.20420011
## Internet	-0.096990282	-0.44754889	0.18348468	0.15831657


```
## PC -0.084024396 -0.68026646 -0.04274796 -0.02884760
## Economy.Management -0.008746213 -0.34427659 0.47548685 0.01601952
## Biology 0.566515332 0.03612423 -0.56228772 0.24355091
## Chemistry 0.453474616 -0.05328799 -0.64469388 0.14300379
## Reading 0.562682471 0.36318598 0.12018498 -0.25440813
## Geography 0.341230685 -0.27096341 0.24152219 -0.10479239
## Foreign.languages 0.405185944 0.03486491 0.35995788 -0.02726684
## Medicine 0.584352837 -0.01903645 -0.47446653 0.17268119
## Law 0.288012505 -0.26851199 0.44210889 -0.03429376
## Cars -0.111316929 -0.63310351 0.08717469 0.22509155
## Art.exhibitions 0.632676378 0.15004601 0.17005099 -0.08188580
## Religion 0.482926708 -0.03801411 -0.01494382 -0.23772497
## Countryside..outdoors 0.404933485 -0.04625658 -0.01500215 0.17453211
## Dancing 0.478311973 0.10597972 0.13867009 0.36542543
## Musical.instruments 0.445548441 -0.02188459 -0.01967704 -0.12777307
## Writing 0.477088837 0.13271712 0.10827746 -0.23171467
## Passive.sport -0.048259938 -0.27451702 0.08263229 0.30492158
## Active.sport 0.142185706 -0.36651987 0.06961554 0.36160888
## Gardening 0.397145038 0.06215972 -0.12853207 0.28080963
## Celebrities 0.032481508 0.16977409 0.29857923 0.50540541
## Shopping 0.172778359 0.22799031 0.31950440 0.58910810
## Science.and.technology 0.200355138 -0.60461683 -0.18829865 -0.05160760
## Theatre 0.605046182 0.24867236 0.17749724 -0.04820240
## Fun.with.friends 0.128600309 -0.09307736 0.22310490 0.38535888
## Adrenaline.sports 0.153600402 -0.45211014 0.10038356 0.33145003
## Pets 0.180032587 0.06880511 -0.04283660 0.37836208
```

```
communalities.hobbies<- rowSums(unrot.fact.hobbies^2)
communalities.hobbies # 1 - this would be your unique variance
```

```
## History Psychology Politics
## 0.3926706 0.2829746 0.4719906
## Mathematics Physics Internet
## 0.3697042 0.6115450 0.2684379
## PC Economy.Management Biology
## 0.4724821 0.3449472 0.6977291
## Chemistry Reading Geography
## 0.6445591 0.5276835 0.2591740
## Foreign.languages Medicine Law
## 0.2957044 0.5967679 0.3516862
## Cars Art.exhibitions Religion
## 0.4714771 0.4584158 0.2913998
## Countryside..outdoors Dancing Musical.instruments
## 0.1967973 0.3927792 0.2157055
## Writing Passive.sport Active.sport
## 0.3106433 0.1774939 0.2901609
## Gardening Celebrities Shopping
## 0.2569626 0.3744625 0.5309634
## Science.and.technology Theatre Fun.with.friends
## 0.4438234 0.4617476 0.2234787
```

```

##      Adrenaline.sports          Pets
##      0.3479326          0.1821387

rot.fact.hobbies<- varimax(unrot.fact.hobbies)
View(unrot.fact.hobbies)
rot.fact.hobbies

## $loadings
##
## Loadings:
##          PC1    PC2    PC3    PC4
## History      0.586 -0.128  0.113 -0.141
## Psychology    0.522
## Politics      0.524 -0.320  0.267 -0.154
## Mathematics   -0.405 -0.217 -0.388
## Physics       -0.435 -0.404 -0.500
## Internet      -0.492  0.147
## PC            -0.627          -0.275
## Economy.Management 0.209 -0.398  0.362  0.110
## Biology       0.107          -0.826
## Chemistry     -0.795 -0.109
## Reading       0.597  0.382 -0.152
## Geography     0.430 -0.272
## Foreign.languages 0.498          0.212
## Medicine      0.190          -0.748
## Law           0.450 -0.316  0.183  0.126
## Cars          -0.123 -0.673
## Art.exhibitions 0.614  0.121 -0.206  0.157
## Religion      0.475          -0.217 -0.137
## Countryside..outdoors 0.252 -0.105 -0.295  0.188
## Dancing       0.303          -0.275  0.473
## Musical.instruments 0.399          -0.232
## Writing       0.519  0.161 -0.120
## Passive.sport -0.114 -0.358          0.191
## Active.sport   -0.465 -0.137  0.234
## Gardening     0.151          -0.408  0.259
## Celebrities   -0.607
## Shopping      -0.726
## Science.and.technology 0.110 -0.537 -0.246 -0.287
## Theatre       0.579  0.204 -0.194  0.215
## Fun.with.friends -0.235          0.406
## Adrenaline.sports -0.542 -0.112  0.197
## Pets          -0.248  0.344
##
##          PC1    PC2    PC3    PC4
## SS loadings  3.592  3.122  3.077  2.423
## Proportion Var 0.112  0.098  0.096  0.076
## Cumulative Var 0.112  0.210  0.306  0.382
##
## $rotmat

```

```
##           [,1]      [,2]      [,3]      [,4]
## [1,]  0.80414921 -0.03239952 -0.571263073 0.1610988
## [2,] -0.02266617  0.94671379  0.004990906 0.3212388
## [3,]  0.45001608 -0.14193505  0.765086252 0.4381586
## [4,] -0.38770584 -0.28729377 -0.297113816 0.8239356
```

```
fact.load.hobbies<- rot.fact.hobbies$loadings[1:9,1:4]
fact.load.hobbies
```

```
##           PC1      PC2      PC3      PC4
## History      0.58618096 -0.12767314  0.11336796 -0.141102100
## Psychology    0.52150903  0.04375981 -0.09489952  0.009061298
## Politics      0.52401884 -0.31967865  0.26711833 -0.154428509
## Mathematics   0.08960413 -0.40521328 -0.21718646 -0.387695145
## Physics       0.09641880 -0.43480146 -0.40419073 -0.499825939
## Internet     -0.04665964 -0.49208454  0.14651686  0.051442991
## PC           -0.06020201 -0.62694011  0.02047003 -0.274563127
## Economy.Management 0.20853604 -0.39773858  0.36230697  0.109533743
## Biology       0.10727944  0.02568216 -0.82600994  0.057168467
```

```
scale.hobbies<- scale(hobbies_transformed[-1])
scale.hobbies
```

```
##           Psychology  Politics Mathematics  Physics  Internet
PC
## [1,]  1.4817895 -1.2335329  0.4925588  0.76311405  0.8918804 -
0.1049952
## [2,] -0.1094996  1.0850805  1.9709672 -0.05248933 -0.1947290
0.6524702
## [3,] -0.9051442 -1.2335329  1.9709672 -0.05248933 -0.1947290 -
0.8624606
## [4,]  0.6861450  1.8579516  1.2317630 -0.86809270 -1.2813384 -
1.6199259
## [5,] -0.9051442  0.3122093 -0.2466454 -0.05248933 -2.3679478 -
0.8624606
## [6,] -0.1094996  1.0850805 -0.2466454  0.76311405 -0.1947290
0.6524702
## [7,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -2.3679478 -
1.6199259
## [8,] -0.9051442  0.3122093 -0.9858495 -0.86809270  0.8918804
0.6524702
## [9,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -3.4545571 -
1.6199259
## [10,] -0.9051442  0.3122093  0.4925588 -0.86809270  0.8918804 -
1.6199259
## [11,] -0.1094996  0.3122093 -0.2466454 -0.86809270 -0.1947290
1.4099355
## [12,] -0.9051442  1.8579516 -0.9858495 -0.86809270  0.8918804
0.6524702
## [13,]  0.6861450  1.0850805 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
```

```
## [14,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [15,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [16,] 1.4817895 0.3122093 0.4925588 0.76311405 -0.1947290  
1.4099355  
## [17,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [18,] -0.9051442 -0.4606618 -0.9858495 0.76311405 -1.2813384 -  
0.1049952  
## [19,] 1.4817895 0.3122093 1.9709672 2.39432079 0.8918804  
1.4099355  
## [20,] -0.1094996 0.3122093 0.4925588 -0.05248933 0.8918804  
1.4099355  
## [21,] -0.1094996 1.0850805 -0.2466454 0.76311405 0.8918804  
0.6524702  
## [22,] 0.6861450 1.0850805 0.4925588 -0.86809270 0.8918804  
1.4099355  
## [23,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [24,] -0.9051442 0.3122093 -0.2466454 0.76311405 -0.1947290 -  
0.1049952  
## [25,] 1.4817895 1.8579516 -0.2466454 -0.86809270 0.8918804  
0.6524702  
## [26,] -0.9051442 -1.2335329 0.4925588 -0.86809270 0.8918804 -  
0.8624606  
## [27,] -0.1094996 -1.2335329 -0.2466454 0.76311405 0.8918804 -  
0.8624606  
## [28,] -0.9051442 0.3122093 -0.9858495 0.76311405 -0.1947290 -  
0.8624606  
## [29,] -1.7007887 -1.2335329 -0.9858495 -0.05248933 0.8918804 -  
0.8624606  
## [30,] 0.6861450 -0.4606618 -0.2466454 -0.05248933 -0.1947290 -  
0.1049952  
## [31,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [32,] 0.6861450 -0.4606618 -0.2466454 -0.05248933 -1.2813384 -  
0.8624606  
## [33,] 1.4817895 0.3122093 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [34,] -0.1094996 1.8579516 -0.2466454 -0.86809270 0.8918804  
0.6524702  
## [35,] 1.4817895 1.0850805 0.4925588 -0.86809270 0.8918804  
0.6524702  
## [36,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [37,] 1.4817895 0.3122093 0.4925588 0.76311405 0.8918804 -  
0.1049952  
## [38,] -0.1094996 1.8579516 0.4925588 0.76311405 -0.1947290 -  
0.1049952
```

```
## [39,] 0.6861450 1.0850805 0.4925588 -0.05248933 0.8918804 -  
0.8624606  
## [40,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [41,] -1.7007887 -1.2335329 -0.2466454 -0.86809270 0.8918804  
0.6524702  
## [42,] 0.6861450 1.8579516 1.9709672 2.39432079 0.8918804  
1.4099355  
## [43,] 1.4817895 -1.2335329 1.9709672 -0.86809270 0.8918804  
1.4099355  
## [44,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [45,] 1.4817895 1.8579516 0.4925588 1.57871742 -0.1947290 -  
0.1049952  
## [46,] 1.4817895 1.8579516 1.9709672 2.39432079 0.8918804  
1.4099355  
## [47,] -0.1094996 -1.2335329 -0.2466454 -0.05248933 0.8918804  
0.6524702  
## [48,] -0.1094996 -1.2335329 -0.2466454 -0.86809270 0.8918804 -  
0.1049952  
## [49,] 0.6861450 0.3122093 -0.2466454 -0.05248933 -0.1947290 -  
0.8624606  
## [50,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [51,] 0.6861450 -1.2335329 1.2317630 -0.86809270 -0.1947290 -  
0.8624606  
## [52,] 0.6861450 1.0850805 1.9709672 2.39432079 0.8918804  
1.4099355  
## [53,] 0.6861450 0.3122093 0.4925588 -0.05248933 -0.1947290 -  
0.8624606  
## [54,] -0.1094996 1.0850805 -0.9858495 -0.86809270 -1.2813384 -  
0.8624606  
## [55,] -0.1094996 1.0850805 -0.9858495 1.57871742 -1.2813384 -  
1.6199259  
## [56,] 1.4817895 -0.4606618 -0.2466454 0.76311405 0.8918804  
0.6524702  
## [57,] 0.6861450 1.0850805 1.2317630 0.76311405 -0.1947290  
0.6524702  
## [58,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
1.6199259  
## [59,] -0.1094996 -1.2335329 0.4925588 -0.05248933 -0.1947290 -  
0.1049952  
## [60,] 0.6861450 1.8579516 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [61,] 1.4817895 1.0850805 1.2317630 1.57871742 0.8918804  
0.6524702  
## [62,] -0.1094996 0.3122093 0.4925588 1.57871742 0.8918804  
0.6524702  
## [63,] 0.6861450 1.0850805 1.2317630 2.39432079 0.8918804  
1.4099355
```

```
## [64,] -0.9051442  0.3122093 -0.9858495 -0.05248933 -0.1947290 -
0.1049952
## [65,] -0.9051442 -0.4606618 -0.9858495  0.76311405  0.8918804 -
0.8624606
## [66,] -0.9051442  0.3122093 -0.2466454 -0.86809270  0.8918804 -
0.1049952
## [67,] -0.9051442 -0.4606618  1.9709672  2.39432079 -0.1947290 -
0.1049952
## [68,] -0.1094996  0.3122093  1.2317630 -0.05248933 -1.2813384 -
1.6199259
## [69,] -0.9051442  0.3122093  1.9709672 -0.05248933  0.8918804 -
0.8624606
## [70,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [71,] -1.7007887  0.3122093 -0.9858495 -0.86809270 -1.2813384 -
0.1049952
## [72,] -1.7007887  1.8579516 -0.2466454 -0.86809270 -0.1947290 -
0.8624606
## [73,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
## [74,] -0.1094996  1.0850805 -0.9858495 -0.86809270  0.8918804
1.4099355
## [75,] -0.1094996  1.8579516 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
## [76,]  1.4817895  1.0850805 -0.2466454 -0.86809270  0.8918804
0.6524702
## [77,] -0.9051442  1.8579516 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [78,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [79,]  1.4817895 -1.2335329  0.4925588 -0.86809270 -0.1947290
0.6524702
## [80,] -0.1094996  1.8579516 -0.2466454 -0.86809270  0.8918804 -
0.1049952
## [81,]  0.6861450  1.0850805 -0.9858495 -0.05248933  0.8918804 -
0.1049952
## [82,] -0.9051442 -1.2335329 -0.9858495 -0.05248933  0.8918804
1.4099355
## [83,]  1.4817895 -1.2335329 -0.9858495 -0.86809270  0.8918804 -
1.6199259
## [84,] -0.9051442 -1.2335329 -0.9858495 -0.86809270  0.8918804 -
0.1049952
## [85,]  1.4817895  1.0850805 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [86,] -0.1094996 -1.2335329  1.9709672  2.39432079  0.8918804
1.4099355
## [87,]  1.4817895  1.8579516  1.2317630  1.57871742  0.8918804
0.6524702
## [88,]  0.6861450  1.8579516 -0.9858495 -0.86809270  0.8918804 -
0.8624606
```

```
## [89,] -1.7007887 1.8579516 -0.9858495 -0.86809270 0.8918804 -  
1.6199259  
## [90,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [91,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
1.6199259  
## [92,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [93,] -0.1094996 -0.4606618 0.4925588 0.76311405 -1.2813384 -  
0.8624606  
## [94,] -0.1094996 -1.2335329 1.2317630 1.57871742 0.8918804  
1.4099355  
## [95,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [96,] 0.6861450 1.0850805 -0.9858495 -0.05248933 0.8918804  
1.4099355  
## [97,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -2.3679478 -  
1.6199259  
## [98,] -0.9051442 -0.4606618 1.2317630 -0.86809270 0.8918804  
1.4099355  
## [99,] -1.7007887 -1.2335329 -0.9858495 -0.05248933 -1.2813384  
0.6524702  
## [100,] 0.6861450 -1.2335329 1.9709672 2.39432079 0.8918804 -  
1.6199259  
## [101,] -1.7007887 -0.4606618 -0.2466454 0.76311405 0.8918804  
1.4099355  
## [102,] -1.7007887 1.0850805 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [103,] 1.4817895 1.8579516 1.2317630 1.57871742 0.8918804  
0.6524702  
## [104,] 0.6861450 1.0850805 -0.2466454 -0.05248933 0.8918804  
1.4099355  
## [105,] 0.6861450 1.8579516 -0.2466454 -0.05248933 -1.2813384 -  
0.1049952  
## [106,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [107,] 0.6861450 0.3122093 0.4925588 -0.86809270 -0.1947290  
0.6524702  
## [108,] -0.9051442 1.0850805 -0.9858495 0.76311405 -0.1947290 -  
1.6199259  
## [109,] -0.1094996 -0.4606618 0.4925588 -0.05248933 -0.1947290  
0.6524702  
## [110,] -0.1094996 1.0850805 -0.2466454 -0.05248933 -0.1947290  
1.4099355  
## [111,] 0.6861450 -1.2335329 -0.2466454 0.76311405 0.8918804 -  
0.8624606  
## [112,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
1.6199259  
## [113,] -0.1094996 -1.2335329 -0.2466454 -0.86809270 -1.2813384 -  
1.6199259
```

```
## [114,] -0.9051442 -1.2335329 -0.9858495 -0.05248933 -1.2813384 -  
0.8624606  
## [115,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [116,] 1.4817895 0.3122093 -0.9858495 0.76311405 0.8918804 -  
0.1049952  
## [117,] 0.6861450 -0.4606618 -0.9858495 -0.05248933 -1.2813384 -  
1.6199259  
## [118,] -0.9051442 -0.4606618 1.9709672 -0.05248933 0.8918804  
1.4099355  
## [119,] -0.9051442 1.0850805 1.2317630 -0.05248933 -0.1947290  
0.6524702  
## [120,] 0.6861450 -0.4606618 1.2317630 -0.05248933 0.8918804 -  
1.6199259  
## [121,] -0.1094996 1.0850805 1.9709672 2.39432079 -2.3679478  
0.6524702  
## [122,] -0.1094996 0.3122093 1.2317630 0.76311405 -0.1947290  
0.6524702  
## [123,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [124,] -0.1094996 -1.2335329 -0.9858495 0.76311405 -1.2813384 -  
0.1049952  
## [125,] 0.6861450 1.0850805 -0.9858495 0.76311405 -0.1947290  
1.4099355  
## [126,] 0.6861450 1.0850805 -0.2466454 -0.05248933 -1.2813384 -  
0.8624606  
## [127,] -0.9051442 -0.4606618 -0.2466454 -0.86809270 0.8918804 -  
0.1049952  
## [128,] 0.6861450 1.0850805 0.4925588 -0.05248933 0.8918804  
0.6524702  
## [129,] 1.4817895 0.3122093 0.4925588 2.39432079 0.8918804  
1.4099355  
## [130,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [131,] -0.1094996 1.8579516 -0.2466454 -0.86809270 0.8918804  
0.6524702  
## [132,] -0.1094996 1.0850805 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [133,] 1.4817895 -0.4606618 1.2317630 -0.86809270 0.8918804 -  
0.1049952  
## [134,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -2.3679478 -  
1.6199259  
## [135,] -0.1094996 0.3122093 -0.9858495 -0.05248933 -1.2813384 -  
0.1049952  
## [136,] -0.9051442 -1.2335329 0.4925588 -0.05248933 -0.1947290  
0.6524702  
## [137,] -0.9051442 1.8579516 -0.2466454 1.57871742 0.8918804  
0.6524702  
## [138,] -0.9051442 0.3122093 0.4925588 0.76311405 0.8918804  
0.6524702
```



```
## [139,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [140,] -0.1094996 -1.2335329 -0.2466454 -0.86809270 -0.1947290 -  
0.1049952  
## [141,] 0.6861450 0.3122093 -0.2466454 -0.05248933 -1.2813384 -  
1.6199259  
## [142,] 1.4817895 -1.2335329 1.9709672 2.39432079 0.8918804  
1.4099355  
## [143,] -0.9051442 -0.4606618 -0.2466454 -0.86809270 0.8918804  
1.4099355  
## [144,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [145,] 0.6861450 -1.2335329 -0.9858495 1.57871742 0.8918804  
1.4099355  
## [146,] 0.6861450 -0.4606618 -0.9858495 -0.05248933 -0.1947290 -  
0.8624606  
## [147,] -0.1094996 1.8579516 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [148,] -0.9051442 0.3122093 1.9709672 2.39432079 0.8918804  
0.6524702  
## [149,] 0.6861450 0.3122093 1.2317630 1.57871742 0.8918804  
1.4099355  
## [150,] -0.1094996 -1.2335329 1.9709672 2.39432079 -1.2813384  
1.4099355  
## [151,] -0.1094996 1.0850805 0.4925588 0.76311405 -0.1947290  
0.6524702  
## [152,] 0.6861450 1.0850805 -0.2466454 -0.05248933 -1.2813384 -  
0.1049952  
## [153,] 1.4817895 1.8579516 -0.2466454 -0.86809270 -0.1947290 -  
0.8624606  
## [154,] -0.1094996 1.8579516 -0.9858495 -0.05248933 -0.1947290 -  
0.8624606  
## [155,] -1.7007887 1.8579516 0.4925588 1.57871742 0.8918804  
1.4099355  
## [156,] 1.4817895 -0.4606618 0.4925588 -0.05248933 -1.2813384 -  
0.8624606  
## [157,] -0.9051442 1.0850805 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [158,] 0.6861450 0.3122093 -0.2466454 -0.05248933 -0.1947290  
0.6524702  
## [159,] -0.9051442 -1.2335329 0.4925588 -0.05248933 0.8918804 -  
0.1049952  
## [160,] 0.6861450 1.0850805 0.4925588 -0.05248933 -0.1947290 -  
0.1049952  
## [161,] -0.1094996 1.8579516 1.9709672 1.57871742 0.8918804  
0.6524702  
## [162,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [163,] -0.1094996 0.3122093 -0.9858495 -0.86809270 0.8918804 -  
0.8624606
```

```
## [164,] 1.4817895 0.3122093 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [165,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290  
0.6524702  
## [166,] 0.6861450 1.8579516 -0.2466454 -0.86809270 0.8918804  
0.6524702  
## [167,] -0.9051442 -0.4606618 -0.2466454 -0.05248933 -2.3679478 -  
0.8624606  
## [168,] -0.1094996 0.3122093 -0.9858495 -0.05248933 -0.1947290 -  
0.1049952  
## [169,] 0.6861450 1.0850805 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [170,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [171,] 0.6861450 1.8579516 1.9709672 0.76311405 -1.2813384 -  
1.6199259  
## [172,] 0.6861450 1.0850805 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [173,] 0.6861450 1.0850805 0.4925588 0.76311405 0.8918804  
1.4099355  
## [174,] -0.9051442 -1.2335329 1.2317630 -0.05248933 0.8918804  
1.4099355  
## [175,] -1.7007887 0.3122093 -0.9858495 -0.86809270 0.8918804 -  
1.6199259  
## [176,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
1.6199259  
## [177,] -1.7007887 -1.2335329 1.9709672 1.57871742 0.8918804  
1.4099355  
## [178,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
1.6199259  
## [179,] 0.6861450 -1.2335329 0.4925588 0.76311405 -1.2813384 -  
0.1049952  
## [180,] 1.4817895 0.3122093 -0.2466454 -0.05248933 0.8918804 -  
0.1049952  
## [181,] 1.4817895 1.8579516 1.2317630 0.76311405 0.8918804 -  
0.1049952  
## [182,] 0.6861450 -0.4606618 -0.2466454 0.76311405 -1.2813384 -  
0.1049952  
## [183,] -0.9051442 0.3122093 -0.2466454 -0.05248933 -0.1947290 -  
0.8624606  
## [184,] 1.4817895 1.8579516 -0.2466454 -0.05248933 -0.1947290 -  
1.6199259  
## [185,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [186,] 1.4817895 -0.4606618 1.9709672 -0.05248933 -1.2813384 -  
0.8624606  
## [187,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -2.3679478 -  
1.6199259  
## [188,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.8624606
```

```
## [189,] -1.7007887  0.3122093 -0.9858495  2.39432079  0.8918804
1.4099355
## [190,] -0.1094996 -0.4606618  0.4925588 -0.86809270  0.8918804 -
0.1049952
## [191,] -0.1094996 -0.4606618  1.9709672  0.76311405  0.8918804
0.6524702
## [192,]  0.6861450 -1.2335329 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [193,] -0.1094996 -0.4606618 -0.9858495 -0.86809270  0.8918804
0.6524702
## [194,] -0.1094996 -1.2335329 -0.9858495  0.76311405 -1.2813384 -
0.8624606
## [195,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [196,] -0.1094996 -0.4606618 -0.9858495 -0.86809270  0.8918804
1.4099355
## [197,]  0.6861450 -0.4606618 -0.9858495 -0.86809270  0.8918804 -
0.1049952
## [198,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
## [199,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -1.2813384
0.6524702
## [200,] -0.9051442 -1.2335329 -0.9858495 -0.05248933 -1.2813384 -
0.1049952
## [201,] -0.9051442  0.3122093 -0.9858495  0.76311405  0.8918804
1.4099355
## [202,]  1.4817895 -1.2335329 -0.9858495 -0.86809270  0.8918804 -
0.8624606
## [203,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [204,] -0.9051442 -1.2335329  0.4925588 -0.05248933  0.8918804
0.6524702
## [205,] -0.9051442 -1.2335329  1.2317630  0.76311405  0.8918804
0.6524702
## [206,]  0.6861450 -1.2335329 -0.9858495 -0.05248933 -2.3679478 -
0.8624606
## [207,] -0.1094996  1.8579516  1.2317630  1.57871742 -0.1947290
0.6524702
## [208,] -0.9051442  1.0850805 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
## [209,] -0.1094996  0.3122093 -0.9858495 -0.86809270 -2.3679478 -
1.6199259
## [210,]  0.6861450  1.0850805  1.2317630  0.76311405 -0.1947290
1.4099355
## [211,]  0.6861450  1.8579516  1.2317630  2.39432079 -0.1947290
1.4099355
## [212,] -0.1094996 -0.4606618 -0.9858495 -0.86809270  0.8918804
1.4099355
## [213,] -0.1094996  1.0850805  1.9709672  2.39432079  0.8918804
1.4099355
```

## [214,]	-0.1094996	0.3122093	0.4925588	1.57871742	0.8918804	
0.6524702						
## [215,]	-0.1094996	0.3122093	0.4925588	0.76311405	-0.1947290	-
0.1049952						
## [216,]	-1.7007887	-1.2335329	-0.9858495	-0.86809270	-1.2813384	-
1.6199259						
## [217,]	-0.1094996	-0.4606618	0.4925588	1.57871742	-0.1947290	-
1.6199259						
## [218,]	-0.1094996	-1.2335329	-0.2466454	-0.86809270	0.8918804	
0.6524702						
## [219,]	-1.7007887	1.8579516	-0.2466454	1.57871742	0.8918804	
0.6524702						
## [220,]	-0.1094996	1.0850805	-0.9858495	-0.05248933	0.8918804	-
0.1049952						
## [221,]	-0.1094996	-1.2335329	-0.9858495	-0.86809270	-1.2813384	
0.6524702						
## [222,]	0.6861450	-1.2335329	1.2317630	1.57871742	0.8918804	
1.4099355						
## [223,]	-0.1094996	-1.2335329	-0.2466454	-0.05248933	-1.2813384	-
0.8624606						
## [224,]	1.4817895	-0.4606618	0.4925588	-0.05248933	0.8918804	-
0.1049952						
## [225,]	0.6861450	0.3122093	-0.9858495	0.76311405	0.8918804	
0.6524702						
## [226,]	-0.1094996	1.0850805	1.2317630	1.57871742	0.8918804	
0.6524702						
## [227,]	-1.7007887	0.3122093	-0.9858495	-0.86809270	0.8918804	-
0.1049952						
## [228,]	0.6861450	0.3122093	0.4925588	1.57871742	-0.1947290	
0.6524702						
## [229,]	-0.1094996	-0.4606618	0.4925588	0.76311405	-1.2813384	-
0.1049952						
## [230,]	-1.7007887	-1.2335329	1.2317630	-0.05248933	0.8918804	
1.4099355						
## [231,]	0.6861450	1.0850805	0.4925588	-0.86809270	-0.1947290	-
0.8624606						
## [232,]	0.6861450	-0.4606618	-0.2466454	-0.86809270	0.8918804	-
0.1049952						
## [233,]	-0.9051442	1.0850805	1.2317630	-0.86809270	0.8918804	
0.6524702						
## [234,]	0.6861450	-1.2335329	-0.9858495	-0.86809270	-0.1947290	-
0.8624606						
## [235,]	-1.7007887	-1.2335329	1.9709672	1.57871742	0.8918804	-
0.8624606						
## [236,]	1.4817895	1.0850805	-0.9858495	-0.86809270	0.8918804	-
1.6199259						
## [237,]	0.6861450	1.8579516	0.4925588	-0.05248933	0.8918804	-
0.1049952						
## [238,]	-0.9051442	0.3122093	1.2317630	-0.86809270	-0.1947290	-
1.6199259						

```
## [239,] -0.1094996 -0.4606618 -0.2466454 -0.05248933 -0.1947290 -  
0.8624606  
## [240,] -0.9051442 1.0850805 -0.9858495 -0.05248933 -1.2813384 -  
1.6199259  
## [241,] -0.1094996 1.8579516 -0.2466454 -0.05248933 0.8918804  
1.4099355  
## [242,] 0.6861450 1.0850805 1.2317630 2.39432079 -0.1947290 -  
0.1049952  
## [243,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [244,] 1.4817895 -0.4606618 1.2317630 -0.86809270 -0.1947290 -  
0.1049952  
## [245,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
1.6199259  
## [246,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 -2.3679478 -  
1.6199259  
## [247,] -0.1094996 -0.4606618 1.9709672 1.57871742 0.8918804  
1.4099355  
## [248,] -0.9051442 -1.2335329 -0.9858495 -0.05248933 -1.2813384 -  
1.6199259  
## [249,] 1.4817895 0.3122093 -0.2466454 -0.05248933 -0.1947290 -  
0.8624606  
## [250,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [251,] -1.7007887 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [252,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [253,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [254,] -0.1094996 -1.2335329 -0.9858495 2.39432079 0.8918804  
1.4099355  
## [255,] 0.6861450 0.3122093 -0.2466454 -0.86809270 0.8918804 -  
0.1049952  
## [256,] 1.4817895 -1.2335329 -0.2466454 -0.05248933 -0.1947290 -  
0.8624606  
## [257,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [258,] -0.9051442 1.0850805 1.9709672 0.76311405 0.8918804  
1.4099355  
## [259,] -0.9051442 -0.4606618 1.2317630 1.57871742 0.8918804 -  
0.1049952  
## [260,] 0.6861450 1.0850805 -0.9858495 -0.05248933 -2.3679478 -  
0.8624606  
## [261,] -0.1094996 0.3122093 -0.9858495 0.76311405 -1.2813384 -  
0.1049952  
## [262,] -0.9051442 1.0850805 1.2317630 -0.05248933 0.8918804  
1.4099355  
## [263,] 1.4817895 1.0850805 0.4925588 -0.05248933 -1.2813384 -  
0.1049952
```

[264,] 0.6861450 -0.4606618 0.4925588 -0.05248933 -1.2813384 -
0.8624606
[265,] -0.9051442 -0.4606618 -0.2466454 -0.05248933 0.8918804
1.4099355
[266,] -1.7007887 -1.2335329 -0.2466454 -0.86809270 0.8918804
1.4099355
[267,] -0.1094996 -1.2335329 1.2317630 0.76311405 -0.1947290
0.6524702
[268,] 0.6861450 1.0850805 0.4925588 1.57871742 -1.2813384 -
0.8624606
[269,] -0.9051442 -0.4606618 1.9709672 0.76311405 0.8918804 -
0.8624606
[270,] -0.1094996 0.3122093 -0.2466454 -0.05248933 -1.2813384 -
0.8624606
[271,] 1.4817895 0.3122093 -0.9858495 -0.86809270 0.8918804
0.6524702
[272,] -1.7007887 0.3122093 -0.2466454 -0.86809270 -0.1947290
0.6524702
[273,] 0.6861450 -0.4606618 0.4925588 -0.05248933 -1.2813384 -
1.6199259
[274,] 0.6861450 0.3122093 -0.2466454 -0.86809270 0.8918804
0.6524702
[275,] 1.4817895 1.8579516 -0.9858495 -0.86809270 -1.2813384 -
0.1049952
[276,] 1.4817895 1.0850805 -0.2466454 -0.05248933 0.8918804
1.4099355
[277,] -1.7007887 -1.2335329 0.4925588 -0.86809270 0.8918804 -
1.6199259
[278,] -0.1094996 1.0850805 -0.2466454 -0.05248933 0.8918804
1.4099355
[279,] -0.1094996 0.3122093 0.4925588 0.76311405 0.8918804 -
0.1049952
[280,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
1.6199259
[281,] 0.6861450 -0.4606618 -0.9858495 -0.05248933 -0.1947290 -
0.8624606
[282,] -0.1094996 0.3122093 -0.9858495 1.57871742 -0.1947290 -
0.1049952
[283,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
1.6199259
[284,] -0.9051442 -0.4606618 1.9709672 0.76311405 0.8918804
1.4099355
[285,] -1.7007887 -1.2335329 1.2317630 -0.86809270 0.8918804
0.6524702
[286,] -0.1094996 -0.4606618 -0.2466454 -0.86809270 -0.1947290 -
0.8624606
[287,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -0.1947290
0.6524702
[288,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -0.1947290 -
0.8624606

```
## [289,] -0.9051442 -1.2335329 -0.9858495 0.76311405 0.8918804  
0.6524702  
## [290,] -0.9051442 1.8579516 -0.9858495 -0.05248933 -0.1947290  
0.6524702  
## [291,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -3.4545571 -  
1.6199259  
## [292,] -0.1094996 0.3122093 -0.2466454 -0.86809270 -0.1947290 -  
1.6199259  
## [293,] 0.6861450 0.3122093 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [294,] -1.7007887 -1.2335329 1.9709672 2.39432079 0.8918804  
0.6524702  
## [295,] 1.4817895 1.0850805 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [296,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -2.3679478 -  
1.6199259  
## [297,] -0.9051442 0.3122093 1.2317630 0.76311405 0.8918804  
1.4099355  
## [298,] 0.6861450 -1.2335329 0.4925588 0.76311405 0.8918804 -  
0.1049952  
## [299,] 1.4817895 0.3122093 -0.9858495 -0.86809270 -1.2813384 -  
0.8624606  
## [300,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [301,] 0.6861450 0.3122093 0.4925588 -0.05248933 0.8918804 -  
0.1049952  
## [302,] 1.4817895 -0.4606618 -0.2466454 1.57871742 -1.2813384  
0.6524702  
## [303,] 0.6861450 0.3122093 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [304,] -0.9051442 -0.4606618 1.9709672 -0.05248933 -0.1947290  
0.6524702  
## [305,] 1.4817895 1.0850805 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [306,] 1.4817895 1.8579516 1.2317630 -0.05248933 0.8918804 -  
0.8624606  
## [307,] 0.6861450 -1.2335329 1.2317630 -0.86809270 0.8918804  
1.4099355  
## [308,] -0.9051442 -0.4606618 1.9709672 0.76311405 0.8918804  
1.4099355  
## [309,] 0.6861450 1.0850805 -0.2466454 -0.05248933 -1.2813384 -  
0.1049952  
## [310,] -0.1094996 -1.2335329 0.4925588 0.76311405 -1.2813384 -  
0.1049952  
## [311,] -1.7007887 -1.2335329 -0.2466454 -0.05248933 -0.1947290  
0.6524702  
## [312,] -0.1094996 0.3122093 0.4925588 -0.86809270 -0.1947290 -  
0.1049952  
## [313,] -1.7007887 -1.2335329 -0.2466454 -0.05248933 -1.2813384 -  
0.1049952
```

## [314,]	0.6861450	1.0850805	-0.9858495	-0.86809270	0.8918804	
0.6524702						
## [315,]	0.6861450	-0.4606618	1.9709672	2.39432079	0.8918804	
1.4099355						
## [316,]	-0.9051442	-0.4606618	-0.9858495	-0.86809270	0.8918804	-
0.1049952						
## [317,]	-0.9051442	-0.4606618	-0.2466454	-0.05248933	-0.1947290	-
0.8624606						
## [318,]	-1.7007887	-1.2335329	0.4925588	0.76311405	-1.2813384	
0.6524702						
## [319,]	1.4817895	-1.2335329	0.4925588	-0.86809270	0.8918804	
0.6524702						
## [320,]	1.4817895	1.0850805	-0.9858495	-0.86809270	0.8918804	-
0.8624606						
## [321,]	-0.9051442	0.3122093	0.4925588	0.76311405	0.8918804	
1.4099355						
## [322,]	1.4817895	-0.4606618	-0.9858495	-0.86809270	0.8918804	-
0.8624606						
## [323,]	-0.9051442	1.8579516	-0.9858495	-0.86809270	-2.3679478	-
0.8624606						
## [324,]	0.6861450	0.3122093	0.4925588	0.76311405	-0.1947290	
0.6524702						
## [325,]	-0.9051442	-0.4606618	-0.2466454	-0.05248933	-1.2813384	-
0.1049952						
## [326,]	-0.1094996	0.3122093	-0.9858495	0.76311405	0.8918804	-
0.1049952						
## [327,]	0.6861450	1.0850805	1.2317630	-0.86809270	-1.2813384	-
1.6199259						
## [328,]	-0.1094996	-1.2335329	-0.2466454	-0.86809270	0.8918804	
1.4099355						
## [329,]	1.4817895	1.0850805	1.9709672	-0.86809270	0.8918804	
1.4099355						
## [330,]	-0.9051442	-0.4606618	-0.2466454	-0.86809270	-0.1947290	
0.6524702						
## [331,]	-0.1094996	-0.4606618	-0.9858495	-0.05248933	-0.1947290	-
0.1049952						
## [332,]	-0.1094996	-0.4606618	0.4925588	2.39432079	0.8918804	-
0.8624606						
## [333,]	-0.1094996	-0.4606618	1.2317630	1.57871742	0.8918804	-
0.8624606						
## [334,]	-0.1094996	0.3122093	0.4925588	-0.05248933	0.8918804	-
0.1049952						
## [335,]	0.6861450	0.3122093	-0.9858495	-0.86809270	0.8918804	
0.6524702						
## [336,]	-0.9051442	-0.4606618	0.4925588	-0.05248933	-1.2813384	
1.4099355						
## [337,]	-1.7007887	0.3122093	1.9709672	2.39432079	-1.2813384	
0.6524702						
## [338,]	-0.1094996	1.0850805	1.2317630	2.39432079	-1.2813384	-
0.1049952						

[339,] -0.9051442 -1.2335329 0.4925588 -0.86809270 0.8918804 -
0.8624606
[340,] -0.9051442 1.8579516 -0.9858495 -0.86809270 -2.3679478 -
0.8624606
[341,] -0.1094996 1.0850805 -0.9858495 -0.05248933 -1.2813384 -
1.6199259
[342,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 0.8918804
1.4099355
[343,] -0.1094996 -0.4606618 1.2317630 0.76311405 -1.2813384 -
0.1049952
[344,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -
0.1049952
[345,] -1.7007887 1.0850805 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
[346,] -0.1094996 -1.2335329 0.4925588 -0.86809270 -0.1947290 -
1.6199259
[347,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 0.8918804
0.6524702
[348,] -0.9051442 -1.2335329 -0.2466454 -0.05248933 0.8918804
1.4099355
[349,] -0.9051442 -1.2335329 0.4925588 0.76311405 -0.1947290
0.6524702
[350,] -0.9051442 -0.4606618 -0.2466454 -0.86809270 -0.1947290
0.6524702
[351,] -0.9051442 -1.2335329 -0.2466454 -0.05248933 0.8918804
1.4099355
[352,] -0.1094996 -0.4606618 1.9709672 1.57871742 0.8918804 -
0.1049952
[353,] -1.7007887 -1.2335329 -0.9858495 2.39432079 0.8918804 -
0.1049952
[354,] 0.6861450 1.0850805 -0.2466454 -0.05248933 -2.3679478 -
0.8624606
[355,] 0.6861450 1.0850805 1.2317630 1.57871742 -0.1947290 -
0.1049952
[356,] -0.9051442 1.0850805 1.2317630 -0.05248933 0.8918804
1.4099355
[357,] -0.9051442 1.0850805 1.9709672 2.39432079 0.8918804
0.6524702
[358,] -0.1094996 -1.2335329 0.4925588 -0.05248933 -1.2813384 -
0.1049952
[359,] -0.9051442 -0.4606618 -0.2466454 -0.05248933 -0.1947290
0.6524702
[360,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
[361,] 0.6861450 0.3122093 1.9709672 -0.86809270 0.8918804 -
0.1049952
[362,] 1.4817895 -1.2335329 -0.9858495 -0.05248933 -0.1947290
1.4099355
[363,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
0.1049952

```
## [364,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
0.8624606  
## [365,] -0.1094996 -0.4606618 -0.2466454 -0.86809270 -0.1947290  
0.6524702  
## [366,] 1.4817895 1.0850805 -0.9858495 -0.86809270 -1.2813384 -  
0.8624606  
## [367,] -1.7007887 -0.4606618 1.9709672 -0.05248933 0.8918804  
1.4099355  
## [368,] -1.7007887 -0.4606618 -0.9858495 -0.86809270 -0.1947290  
1.4099355  
## [369,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -0.1947290  
0.6524702  
## [370,] -0.1094996 1.0850805 1.2317630 0.76311405 0.8918804  
0.6524702  
## [371,] 0.6861450 -0.4606618 -0.2466454 -0.86809270 0.8918804 -  
0.8624606  
## [372,] 1.4817895 -1.2335329 1.9709672 0.76311405 -1.2813384 -  
0.1049952  
## [373,] -0.1094996 0.3122093 -0.9858495 0.76311405 0.8918804  
1.4099355  
## [374,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [375,] -0.9051442 -1.2335329 -0.9858495 -0.05248933 -2.3679478 -  
1.6199259  
## [376,] -1.7007887 -1.2335329 0.4925588 -0.05248933 0.8918804 -  
0.8624606  
## [377,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [378,] 1.4817895 1.0850805 1.9709672 1.57871742 0.8918804  
0.6524702  
## [379,] 0.6861450 -1.2335329 1.9709672 -0.86809270 -0.1947290 -  
1.6199259  
## [380,] 1.4817895 1.0850805 0.4925588 0.76311405 0.8918804  
1.4099355  
## [381,] 0.6861450 -1.2335329 -0.2466454 -0.86809270 -0.1947290 -  
0.1049952  
## [382,] 1.4817895 0.3122093 -0.2466454 -0.86809270 -0.1947290 -  
0.8624606  
## [383,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [384,] -0.9051442 -0.4606618 1.9709672 -0.05248933 0.8918804  
1.4099355  
## [385,] 1.4817895 -1.2335329 1.9709672 -0.86809270 0.8918804 -  
1.6199259  
## [386,] -1.7007887 -1.2335329 0.4925588 1.57871742 0.8918804  
1.4099355  
## [387,] 0.6861450 0.3122093 0.4925588 1.57871742 -0.1947290 -  
0.1049952  
## [388,] 0.6861450 0.3122093 -0.2466454 -0.05248933 0.8918804 -  
0.1049952
```

```
## [389,] 1.4817895 0.3122093 1.2317630 -0.05248933 -1.2813384
0.6524702
## [390,] 1.4817895 -1.2335329 -0.2466454 -0.86809270 0.8918804 -
1.6199259
## [391,] -0.1094996 1.0850805 0.4925588 -0.05248933 -0.1947290 -
0.1049952
## [392,] -0.9051442 -1.2335329 1.2317630 -0.86809270 -2.3679478 -
1.6199259
## [393,] -0.1094996 -0.4606618 0.4925588 -0.86809270 -1.2813384 -
0.8624606
## [394,] -0.9051442 0.3122093 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [395,] 0.6861450 -0.4606618 1.2317630 -0.05248933 0.8918804
1.4099355
## [396,] -1.7007887 -1.2335329 1.2317630 0.76311405 0.8918804
1.4099355
## [397,] -0.1094996 -1.2335329 1.2317630 0.76311405 -2.3679478 -
0.1049952
## [398,] -0.1094996 -0.4606618 1.2317630 -0.86809270 0.8918804
1.4099355
## [399,] 0.6861450 0.3122093 1.2317630 0.76311405 0.8918804
1.4099355
## [400,] 1.4817895 0.3122093 1.2317630 1.57871742 -1.2813384
0.6524702
## [401,] -0.9051442 0.3122093 1.9709672 2.39432079 0.8918804
0.6524702
## [402,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
## [403,] -1.7007887 0.3122093 -0.9858495 -0.86809270 0.8918804
1.4099355
## [404,] 0.6861450 -1.2335329 -0.2466454 -0.05248933 -1.2813384
0.6524702
## [405,] -0.9051442 -1.2335329 -0.2466454 -0.05248933 -0.1947290 -
0.8624606
## [406,] 0.6861450 1.8579516 -0.2466454 0.76311405 -0.1947290 -
0.8624606
## [407,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804
1.4099355
## [408,] 0.6861450 1.0850805 -0.2466454 -0.05248933 -0.1947290 -
0.1049952
## [409,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -2.3679478 -
0.8624606
## [410,] -0.9051442 -1.2335329 0.4925588 0.76311405 0.8918804 -
0.1049952
## [411,] -1.7007887 -1.2335329 1.2317630 1.57871742 0.8918804
1.4099355
## [412,] 0.6861450 1.8579516 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
## [413,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
```

[414,] -0.9051442 -0.4606618 0.4925588 -0.05248933 -1.2813384 -
0.8624606
[415,] 1.4817895 0.3122093 0.4925588 -0.86809270 0.8918804
0.6524702
[416,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
1.6199259
[417,] -0.9051442 -1.2335329 1.9709672 -0.05248933 -0.1947290 -
0.8624606
[418,] 0.6861450 1.0850805 1.9709672 0.76311405 0.8918804
1.4099355
[419,] -0.9051442 -0.4606618 -0.9858495 -0.05248933 -1.2813384 -
1.6199259
[420,] 1.4817895 -0.4606618 -0.9858495 -0.05248933 -1.2813384 -
0.8624606
[421,] -0.1094996 1.8579516 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[422,] -0.1094996 0.3122093 1.2317630 1.57871742 0.8918804
1.4099355
[423,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[424,] 0.6861450 -0.4606618 -0.9858495 -0.05248933 -0.1947290
0.6524702
[425,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -0.1947290
0.6524702
[426,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804
1.4099355
[427,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -3.4545571 -
1.6199259
[428,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
[429,] -0.1094996 0.3122093 -0.2466454 -0.86809270 0.8918804 -
0.8624606
[430,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
[431,] -0.1094996 -0.4606618 -0.2466454 -0.05248933 -1.2813384 -
0.8624606
[432,] -1.7007887 -0.4606618 1.9709672 2.39432079 0.8918804
1.4099355
[433,] 1.4817895 1.0850805 -0.2466454 0.76311405 -0.1947290
1.4099355
[434,] -0.9051442 1.0850805 1.9709672 -0.05248933 0.8918804
0.6524702
[435,] -0.1094996 -0.4606618 -0.9858495 2.39432079 -0.1947290 -
0.8624606
[436,] -0.9051442 -1.2335329 -0.9858495 0.76311405 -1.2813384 -
0.8624606
[437,] -0.9051442 -1.2335329 -0.2466454 0.76311405 -0.1947290 -
0.1049952
[438,] 1.4817895 0.3122093 -0.9858495 0.76311405 -0.1947290 -
0.8624606

```
## [439,] 1.4817895 -0.4606618 -0.9858495 -0.05248933 -0.1947290
0.6524702
## [440,] -0.1094996 -0.4606618 0.4925588 -0.86809270 0.8918804 -
0.1049952
## [441,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
## [442,] 1.4817895 -0.4606618 -0.2466454 -0.05248933 -2.3679478 -
0.8624606
## [443,] -0.9051442 0.3122093 0.4925588 -0.05248933 -1.2813384
0.6524702
## [444,] 1.4817895 1.8579516 0.4925588 -0.05248933 -1.2813384 -
1.6199259
## [445,] 1.4817895 1.0850805 1.2317630 1.57871742 -0.1947290 -
1.6199259
## [446,] -0.9051442 0.3122093 -0.9858495 -0.86809270 -0.1947290 -
1.6199259
## [447,] 0.6861450 -0.4606618 0.4925588 -0.86809270 0.8918804 -
0.8624606
## [448,] 0.6861450 1.8579516 0.4925588 0.76311405 -1.2813384 -
0.1049952
## [449,] -0.1094996 0.3122093 1.2317630 -0.86809270 -2.3679478 -
1.6199259
## [450,] -0.9051442 -1.2335329 0.4925588 -0.05248933 -1.2813384 -
0.8624606
## [451,] -1.7007887 -0.4606618 -0.2466454 -0.86809270 0.8918804 -
0.8624606
## [452,] -0.1094996 -0.4606618 -0.2466454 -0.05248933 -1.2813384 -
0.1049952
## [453,] -0.1094996 -0.4606618 0.4925588 -0.86809270 -0.1947290 -
0.1049952
## [454,] -0.9051442 -1.2335329 -0.2466454 -0.86809270 -1.2813384 -
0.8624606
## [455,] 0.6861450 0.3122093 0.4925588 -0.86809270 0.8918804 -
0.8624606
## [456,] -0.1094996 -0.4606618 -0.2466454 -0.86809270 -0.1947290 -
0.1049952
## [457,] -0.1094996 1.8579516 1.9709672 1.57871742 0.8918804
1.4099355
## [458,] 1.4817895 0.3122093 1.9709672 1.57871742 0.8918804
1.4099355
## [459,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 0.8918804
1.4099355
## [460,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [461,] -1.7007887 1.8579516 -0.9858495 -0.86809270 0.8918804
0.6524702
## [462,] -0.1094996 1.0850805 0.4925588 -0.05248933 -0.1947290 -
0.1049952
## [463,] -0.1094996 0.3122093 0.4925588 0.76311405 -1.2813384 -
0.1049952
```

```
## [464,] -0.1094996 -1.2335329 0.4925588 -0.86809270 -0.1947290 -  
0.8624606  
## [465,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -0.1947290  
0.6524702  
## [466,] -0.9051442 0.3122093 -0.2466454 -0.05248933 0.8918804  
0.6524702  
## [467,] -1.7007887 -0.4606618 -0.9858495 -0.86809270 -0.1947290  
0.6524702  
## [468,] -0.9051442 0.3122093 0.4925588 -0.86809270 -0.1947290 -  
1.6199259  
## [469,] -0.9051442 1.0850805 1.2317630 -0.05248933 -0.1947290 -  
0.1049952  
## [470,] -0.9051442 -0.4606618 0.4925588 -0.05248933 0.8918804  
1.4099355  
## [471,] -0.1094996 -0.4606618 -0.2466454 -0.86809270 0.8918804  
0.6524702  
## [472,] -0.1094996 -0.4606618 0.4925588 1.57871742 -0.1947290  
0.6524702  
## [473,] -1.7007887 -1.2335329 1.9709672 1.57871742 -1.2813384 -  
1.6199259  
## [474,] -0.1094996 -0.4606618 -0.2466454 -0.05248933 -1.2813384 -  
0.1049952  
## [475,] -0.1094996 0.3122093 1.9709672 2.39432079 0.8918804  
1.4099355  
## [476,] 1.4817895 0.3122093 0.4925588 -0.05248933 -0.1947290 -  
0.8624606  
## [477,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [478,] -0.9051442 -0.4606618 1.2317630 -0.05248933 -1.2813384 -  
0.8624606  
## [479,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [480,] -0.1094996 0.3122093 -0.9858495 -0.05248933 -0.1947290 -  
0.8624606  
## [481,] -0.9051442 0.3122093 0.4925588 -0.05248933 -0.1947290  
0.6524702  
## [482,] 1.4817895 -0.4606618 -0.9858495 1.57871742 -0.1947290  
1.4099355  
## [483,] -0.9051442 1.0850805 1.2317630 -0.05248933 -0.1947290  
0.6524702  
## [484,] 0.6861450 -1.2335329 1.2317630 1.57871742 -0.1947290 -  
0.8624606  
## [485,] -0.9051442 -0.4606618 1.2317630 -0.86809270 -0.1947290 -  
0.1049952  
## [486,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [487,] 1.4817895 1.0850805 0.4925588 -0.05248933 -1.2813384 -  
0.1049952  
## [488,] 1.4817895 -0.4606618 -0.9858495 0.76311405 0.8918804  
1.4099355
```

```
## [489,] -0.9051442  1.8579516   0.4925588  1.57871742 -0.1947290
0.6524702
## [490,]  0.6861450  1.8579516  -0.9858495 -0.86809270 -0.1947290 -
1.6199259
## [491,]  1.4817895 -1.2335329  -0.9858495 -0.86809270  0.8918804 -
1.6199259
## [492,] -0.1094996 -0.4606618  -0.2466454 -0.86809270 -1.2813384 -
0.1049952
## [493,]  1.4817895 -0.4606618   0.4925588 -0.05248933 -0.1947290 -
0.1049952
## [494,] -1.7007887  0.3122093  -0.2466454 -0.05248933  0.8918804 -
0.1049952
## [495,]  0.6861450 -0.4606618   1.2317630  0.76311405 -0.1947290 -
0.8624606
## [496,] -0.9051442 -0.4606618  -0.2466454 -0.86809270 -1.2813384 -
0.1049952
## [497,] -0.1094996  1.0850805   0.4925588  0.76311405 -1.2813384 -
0.8624606
## [498,]  1.4817895  0.3122093  -0.9858495 -0.86809270 -1.2813384 -
0.8624606
## [499,]  0.6861450  0.3122093  -0.9858495 -0.86809270  0.8918804 -
1.6199259
## [500,] -0.9051442  1.0850805  -0.2466454 -0.05248933  0.8918804
1.4099355
## [501,]  0.6861450  0.3122093   0.4925588  1.57871742 -0.1947290
0.6524702
## [502,] -0.9051442 -0.4606618   1.2317630 -0.86809270 -0.1947290 -
0.8624606
## [503,] -1.7007887  1.0850805   0.4925588 -0.86809270  0.8918804
1.4099355
## [504,]  0.6861450 -1.2335329   1.9709672  2.39432079  0.8918804
1.4099355
## [505,] -0.1094996  0.3122093   1.9709672 -0.86809270  0.8918804 -
0.1049952
## [506,] -0.1094996 -0.4606618   0.4925588  1.57871742 -0.1947290 -
0.1049952
## [507,] -0.1094996  0.3122093  -0.2466454  0.76311405  0.8918804
1.4099355
## [508,]  0.6861450 -0.4606618  -0.2466454 -0.05248933 -1.2813384 -
0.8624606
## [509,]  0.6861450  1.8579516  -0.9858495 -0.86809270  0.8918804 -
0.1049952
## [510,] -1.7007887 -1.2335329  -0.9858495 -0.86809270  0.8918804
1.4099355
## [511,]  0.6861450 -0.4606618   0.4925588  2.39432079 -1.2813384
1.4099355
## [512,] -0.1094996 -1.2335329   1.2317630  2.39432079 -0.1947290
1.4099355
## [513,] -1.7007887  1.8579516  -0.9858495 -0.86809270 -0.1947290 -
0.1049952
```

```
## [514,] -1.7007887  1.0850805   1.9709672   0.76311405   0.8918804
1.4099355
## [515,] -0.9051442 -1.2335329  -0.9858495  -0.86809270  -0.1947290 -
0.1049952
## [516,]  0.6861450   0.3122093   1.2317630  -0.86809270   0.8918804
0.6524702
## [517,] -0.1094996 -1.2335329  -0.9858495  -0.05248933   0.8918804
1.4099355
## [518,]  1.4817895   0.3122093  -0.2466454   1.57871742   0.8918804 -
0.1049952
## [519,]  0.6861450   0.3122093  -0.9858495  -0.05248933  -1.2813384 -
1.6199259
## [520,] -0.9051442 -0.4606618  -0.2466454  -0.05248933  -0.1947290 -
0.1049952
## [521,] -0.1094996   0.3122093   0.4925588  -0.05248933   0.8918804 -
0.1049952
## [522,]  0.6861450 -1.2335329  -0.9858495  -0.86809270   0.8918804 -
0.8624606
## [523,] -0.1094996   1.0850805  -0.9858495  -0.86809270  -0.1947290 -
0.8624606
## [524,] -1.7007887 -0.4606618   1.2317630   1.57871742  -0.1947290
1.4099355
## [525,]  0.6861450 -1.2335329   0.4925588  -0.05248933   0.8918804 -
0.8624606
## [526,] -0.1094996   0.3122093   0.4925588   0.76311405  -1.2813384 -
0.1049952
## [527,] -0.1094996   0.3122093   1.9709672   2.39432079   0.8918804
0.6524702
## [528,] -0.9051442   0.3122093   1.9709672   2.39432079   0.8918804
0.6524702
## [529,] -0.1094996 -0.4606618   1.9709672   2.39432079   0.8918804
0.6524702
## [530,] -0.1094996   1.8579516  -0.9858495  -0.86809270   0.8918804 -
0.8624606
## [531,]  1.4817895 -0.4606618   0.4925588   1.57871742   0.8918804 -
0.8624606
## [532,]  1.4817895   1.8579516   0.4925588   1.57871742   0.8918804
1.4099355
## [533,] -0.1094996   0.3122093  -0.9858495  -0.86809270   0.8918804 -
0.8624606
## [534,]  0.6861450 -0.4606618   0.4925588  -0.05248933   0.8918804
0.6524702
## [535,] -0.1094996 -0.4606618  -0.9858495  -0.86809270  -1.2813384 -
0.8624606
## [536,]  1.4817895   1.0850805   0.4925588  -0.05248933   0.8918804 -
1.6199259
## [537,]  1.4817895   0.3122093  -0.9858495  -0.86809270   0.8918804 -
0.8624606
## [538,]  1.4817895   1.8579516  -0.2466454   1.57871742   0.8918804 -
0.1049952
```



```
## [539,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [540,] 0.6861450 1.8579516 -0.9858495 2.39432079 0.8918804
1.4099355
## [541,] 0.6861450 0.3122093 0.4925588 2.39432079 0.8918804
1.4099355
## [542,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
## [543,] 0.6861450 1.0850805 -0.2466454 -0.05248933 0.8918804
1.4099355
## [544,] 0.6861450 -0.4606618 -0.2466454 -0.05248933 0.8918804
1.4099355
## [545,] -1.7007887 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [546,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
0.1049952
## [547,] -0.9051442 0.3122093 1.2317630 1.57871742 0.8918804
1.4099355
## [548,] -0.1094996 1.8579516 -0.9858495 -0.86809270 -1.2813384 -
0.1049952
## [549,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [550,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [551,] 0.6861450 1.0850805 0.4925588 -0.86809270 -0.1947290 -
0.8624606
## [552,] -0.1094996 -1.2335329 0.4925588 -0.86809270 -1.2813384 -
0.8624606
## [553,] 1.4817895 1.8579516 0.4925588 -0.86809270 0.8918804 -
0.8624606
## [554,] 0.6861450 1.0850805 0.4925588 -0.86809270 -1.2813384 -
0.8624606
## [555,] 1.4817895 0.3122093 1.9709672 0.76311405 -0.1947290
0.6524702
## [556,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
1.6199259
## [557,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
## [558,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 0.8918804
0.6524702
## [559,] -0.1094996 -0.4606618 -0.2466454 -0.05248933 -0.1947290 -
0.8624606
## [560,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
0.8624606
## [561,] -0.9051442 0.3122093 -0.9858495 -0.05248933 0.8918804
1.4099355
## [562,] 0.6861450 1.0850805 -0.2466454 0.76311405 -0.1947290
0.6524702
## [563,] -1.7007887 -0.4606618 -0.9858495 0.76311405 0.8918804
1.4099355
```

```
## [564,] -0.9051442 -1.2335329 -0.9858495 -0.05248933 0.8918804 -  
0.1049952  
## [565,] -1.7007887 1.8579516 -0.2466454 -0.05248933 -1.2813384 -  
0.1049952  
## [566,] -0.1094996 -1.2335329 -0.2466454 -0.86809270 0.8918804  
1.4099355  
## [567,] 0.6861450 -0.4606618 0.4925588 -0.86809270 0.8918804 -  
0.8624606  
## [568,] -0.9051442 -1.2335329 0.4925588 -0.05248933 -2.3679478 -  
0.1049952  
## [569,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [570,] 1.4817895 1.0850805 0.4925588 1.57871742 -0.1947290 -  
0.1049952  
## [571,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [572,] -0.9051442 -1.2335329 1.2317630 0.76311405 0.8918804  
1.4099355  
## [573,] 0.6861450 -0.4606618 0.4925588 -0.86809270 0.8918804 -  
1.6199259  
## [574,] -1.7007887 -1.2335329 -0.9858495 0.76311405 0.8918804 -  
0.1049952  
## [575,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [576,] 1.4817895 -0.4606618 -0.2466454 0.76311405 -1.2813384 -  
0.8624606  
## [577,] -0.9051442 -0.4606618 0.4925588 0.76311405 0.8918804  
1.4099355  
## [578,] 0.6861450 1.0850805 1.2317630 0.76311405 0.8918804 -  
0.8624606  
## [579,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [580,] 1.4817895 -0.4606618 1.9709672 1.57871742 0.8918804  
1.4099355  
## [581,] 1.4817895 0.3122093 -0.2466454 -0.05248933 -2.3679478 -  
0.1049952  
## [582,] 0.6861450 -0.4606618 0.4925588 -0.86809270 0.8918804 -  
0.1049952  
## [583,] 0.6861450 1.0850805 0.4925588 -0.05248933 -1.2813384 -  
0.8624606  
## [584,] 1.4817895 1.8579516 -0.2466454 -0.05248933 0.8918804  
1.4099355  
## [585,] -0.9051442 -0.4606618 -0.2466454 -0.05248933 -1.2813384 -  
0.1049952  
## [586,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [587,] -0.9051442 1.8579516 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [588,] -0.1094996 -1.2335329 -0.9858495 -0.05248933 -1.2813384 -  
0.8624606
```

```
## [589,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [590,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [591,] 0.6861450 0.3122093 1.9709672 2.39432079 -0.1947290  
0.6524702  
## [592,] 1.4817895 1.0850805 -0.9858495 -0.05248933 -1.2813384 -  
1.6199259  
## [593,] 1.4817895 1.8579516 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [594,] 0.6861450 -1.2335329 -0.9858495 -0.05248933 -3.4545571 -  
1.6199259  
## [595,] 0.6861450 -0.4606618 -0.2466454 -0.05248933 -0.1947290 -  
0.1049952  
## [596,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 -3.4545571 -  
0.8624606  
## [597,] 0.6861450 -1.2335329 -0.9858495 -0.05248933 0.8918804  
1.4099355  
## [598,] -0.9051442 -0.4606618 -0.2466454 -0.05248933 0.8918804  
1.4099355  
## [599,] -0.9051442 -1.2335329 -0.2466454 -0.05248933 -0.1947290  
1.4099355  
## [600,] -0.1094996 0.3122093 1.2317630 -0.05248933 -0.1947290  
0.6524702  
## [601,] 1.4817895 0.3122093 -0.9858495 -0.86809270 0.8918804 -  
1.6199259  
## [602,] -0.1094996 -1.2335329 -0.2466454 -0.86809270 -0.1947290 -  
1.6199259  
## [603,] 0.6861450 0.3122093 -0.2466454 0.76311405 -1.2813384 -  
1.6199259  
## [604,] -0.9051442 -0.4606618 -0.2466454 -0.86809270 0.8918804 -  
0.8624606  
## [605,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [606,] -0.9051442 -0.4606618 -0.2466454 2.39432079 -1.2813384 -  
1.6199259  
## [607,] -0.9051442 -1.2335329 -0.2466454 -0.05248933 -0.1947290  
0.6524702  
## [608,] -0.1094996 1.8579516 -0.9858495 -0.05248933 -2.3679478 -  
0.8624606  
## [609,] 1.4817895 1.8579516 1.9709672 2.39432079 -0.1947290 -  
0.8624606  
## [610,] 1.4817895 -0.4606618 1.9709672 -0.05248933 0.8918804  
1.4099355  
## [611,] -0.9051442 0.3122093 -0.2466454 -0.05248933 0.8918804  
1.4099355  
## [612,] 1.4817895 0.3122093 0.4925588 -0.86809270 0.8918804 -  
0.1049952  
## [613,] -0.1094996 1.0850805 0.4925588 1.57871742 0.8918804  
1.4099355
```

```
## [614,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [615,] 1.4817895 1.0850805 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [616,] 0.6861450 -0.4606618 -0.2466454 0.76311405 -2.3679478 -  
1.6199259  
## [617,] 0.6861450 -0.4606618 0.4925588 1.57871742 0.8918804  
1.4099355  
## [618,] 1.4817895 1.8579516 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [619,] -1.7007887 1.8579516 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [620,] -0.9051442 -0.4606618 1.9709672 2.39432079 0.8918804  
0.6524702  
## [621,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [622,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -3.4545571 -  
1.6199259  
## [623,] -0.1094996 0.3122093 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [624,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [625,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [626,] -0.1094996 0.3122093 0.4925588 -0.86809270 0.8918804  
0.6524702  
## [627,] 0.6861450 -0.4606618 -0.2466454 -0.05248933 -0.1947290  
0.6524702  
## [628,] -0.1094996 0.3122093 0.4925588 -0.86809270 0.8918804  
0.6524702  
## [629,] 0.6861450 -0.4606618 1.2317630 1.57871742 -0.1947290  
0.6524702  
## [630,] -1.7007887 1.0850805 -0.9858495 -0.86809270 -0.1947290 -  
1.6199259  
## [631,] 0.6861450 -1.2335329 0.4925588 -0.86809270 0.8918804  
1.4099355  
## [632,] -0.1094996 0.3122093 1.2317630 0.76311405 -0.1947290  
0.6524702  
## [633,] 0.6861450 -0.4606618 0.4925588 0.76311405 -0.1947290 -  
0.1049952  
## [634,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -0.1947290  
0.6524702  
## [635,] -0.1094996 -0.4606618 -0.2466454 -0.05248933 -0.1947290 -  
1.6199259  
## [636,] -0.1094996 0.3122093 -0.9858495 0.76311405 -1.2813384 -  
0.1049952  
## [637,] 0.6861450 0.3122093 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [638,] 0.6861450 -0.4606618 1.9709672 2.39432079 0.8918804  
1.4099355
```

[639,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 0.8918804 -
0.8624606
[640,] -1.7007887 -1.2335329 0.4925588 -0.86809270 0.8918804
1.4099355
[641,] 1.4817895 0.3122093 0.4925588 0.76311405 -0.1947290 -
0.1049952
[642,] -0.9051442 -0.4606618 -0.2466454 -0.05248933 0.8918804 -
0.1049952
[643,] -1.7007887 -0.4606618 1.2317630 2.39432079 -0.1947290 -
0.1049952
[644,] 0.6861450 1.0850805 -0.2466454 -0.05248933 -0.1947290 -
0.8624606
[645,] -0.1094996 0.3122093 1.2317630 -0.05248933 -0.1947290 -
0.1049952
[646,] -0.9051442 1.8579516 0.4925588 1.57871742 0.8918804
0.6524702
[647,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -0.1947290
0.6524702
[648,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[649,] -0.9051442 -1.2335329 -0.2466454 -0.86809270 -0.1947290 -
0.1049952
[650,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
[651,] -0.1094996 -1.2335329 1.2317630 1.57871742 0.8918804
1.4099355
[652,] -0.1094996 1.8579516 -0.9858495 -0.86809270 0.8918804
0.6524702
[653,] -0.9051442 1.0850805 1.2317630 -0.05248933 0.8918804
1.4099355
[654,] -0.9051442 0.3122093 -0.9858495 -0.86809270 -0.1947290 -
1.6199259
[655,] -0.9051442 1.0850805 0.4925588 -0.05248933 -0.1947290 -
0.8624606
[656,] -0.9051442 -1.2335329 0.4925588 -0.86809270 -1.2813384 -
0.8624606
[657,] 1.4817895 1.8579516 1.9709672 2.39432079 -0.1947290
1.4099355
[658,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
0.8624606
[659,] -0.1094996 0.3122093 1.9709672 0.76311405 0.8918804
1.4099355
[660,] -0.9051442 1.0850805 0.4925588 0.76311405 0.8918804 -
0.8624606
[661,] 0.6861450 -0.4606618 -0.2466454 -0.86809270 -1.2813384 -
0.8624606
[662,] 0.6861450 -1.2335329 -0.2466454 -0.05248933 -0.1947290 -
0.8624606
[663,] -0.9051442 -1.2335329 1.2317630 -0.05248933 -0.1947290 -
0.1049952

```
## [664,] -0.1094996 -0.4606618 0.4925588 0.76311405 -1.2813384 -  
0.1049952  
## [665,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [666,] 0.6861450 1.0850805 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [667,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [668,] 0.6861450 1.0850805 -0.2466454 -0.05248933 0.8918804  
0.6524702  
## [669,] 1.4817895 -0.4606618 1.2317630 1.57871742 -1.2813384  
1.4099355  
## [670,] 0.6861450 -0.4606618 -0.2466454 -0.05248933 -0.1947290 -  
0.1049952  
## [671,] 0.6861450 0.3122093 -0.2466454 -0.05248933 -1.2813384 -  
0.1049952  
## [672,] 0.6861450 0.3122093 0.4925588 0.76311405 -0.1947290  
0.6524702  
## [673,] -0.9051442 0.3122093 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [674,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 0.8918804 -  
0.1049952  
## [675,] -0.9051442 1.0850805 0.4925588 0.76311405 -0.1947290  
1.4099355  
## [676,] -0.1094996 -0.4606618 -0.2466454 -0.05248933 0.8918804 -  
0.1049952  
## [677,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
1.6199259  
## [678,] -0.9051442 0.3122093 1.2317630 -0.86809270 0.8918804 -  
0.1049952  
## [679,] -0.1094996 -1.2335329 -0.2466454 -0.05248933 0.8918804  
1.4099355  
## [680,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [681,] 0.6861450 -1.2335329 0.4925588 -0.05248933 0.8918804 -  
0.1049952  
## [682,] 0.6861450 -1.2335329 -0.2466454 1.57871742 0.8918804  
0.6524702  
## [683,] -0.1094996 -0.4606618 1.2317630 -0.05248933 -0.1947290  
0.6524702  
## [684,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -0.1947290  
0.6524702  
## [685,] -1.7007887 -1.2335329 0.4925588 -0.86809270 0.8918804  
1.4099355  
## [686,] -0.1094996 0.3122093 -0.2466454 -0.86809270 -0.1947290 -  
0.1049952  
## [687,] -0.1094996 0.3122093 0.4925588 0.76311405 -1.2813384 -  
0.1049952  
## [688,] -0.9051442 0.3122093 -0.9858495 0.76311405 0.8918804  
1.4099355
```

```
## [689,] 1.4817895 -1.2335329 0.4925588 -0.86809270 0.8918804  
1.4099355  
## [690,] -0.1094996 0.3122093 0.4925588 -0.86809270 -0.1947290 -  
0.1049952  
## [691,] 0.6861450 0.3122093 0.4925588 -0.05248933 -0.1947290  
0.6524702  
## [692,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [693,] 1.4817895 1.8579516 0.4925588 0.76311405 0.8918804  
0.6524702  
## [694,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 0.8918804  
0.6524702  
## [695,] 1.4817895 1.8579516 1.9709672 0.76311405 0.8918804  
1.4099355  
## [696,] 1.4817895 -0.4606618 -0.2466454 -0.05248933 -0.1947290 -  
0.8624606  
## [697,] -0.1094996 -0.4606618 -0.2466454 -0.86809270 -1.2813384 -  
0.8624606  
## [698,] -1.7007887 -0.4606618 1.2317630 -0.86809270 -0.1947290 -  
0.1049952  
## [699,] 1.4817895 0.3122093 -0.9858495 -0.05248933 0.8918804 -  
0.1049952  
## [700,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [701,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [702,] 1.4817895 0.3122093 0.4925588 0.76311405 0.8918804 -  
0.1049952  
## [703,] 1.4817895 1.8579516 1.9709672 2.39432079 0.8918804  
1.4099355  
## [704,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [705,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [706,] 1.4817895 0.3122093 1.2317630 2.39432079 0.8918804 -  
0.1049952  
## [707,] -0.9051442 1.0850805 -0.9858495 -0.86809270 -0.1947290 -  
0.1049952  
## [708,] -0.1094996 -1.2335329 0.4925588 -0.05248933 -1.2813384 -  
0.8624606  
## [709,] -0.1094996 0.3122093 0.4925588 0.76311405 -0.1947290  
0.6524702  
## [710,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [711,] 1.4817895 -0.4606618 1.9709672 1.57871742 -1.2813384 -  
0.1049952  
## [712,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [713,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 0.8918804  
0.6524702
```

```
## [714,] 0.6861450 1.0850805 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [715,] -0.1094996 -0.4606618 0.4925588 -0.05248933 -0.1947290  
0.6524702  
## [716,] -1.7007887 0.3122093 -0.2466454 0.76311405 -0.1947290  
1.4099355  
## [717,] 1.4817895 1.8579516 1.9709672 2.39432079 -0.1947290  
0.6524702  
## [718,] -0.1094996 -1.2335329 0.4925588 -0.86809270 -0.1947290 -  
1.6199259  
## [719,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290  
0.6524702  
## [720,] -0.1094996 -0.4606618 1.2317630 -0.05248933 -0.1947290  
0.6524702  
## [721,] 0.6861450 0.3122093 -0.2466454 0.76311405 -1.2813384  
0.6524702  
## [722,] -1.7007887 1.0850805 0.4925588 -0.05248933 -1.2813384 -  
1.6199259  
## [723,] -0.1094996 0.3122093 -0.2466454 -0.05248933 -2.3679478 -  
0.8624606  
## [724,] -0.1094996 1.0850805 0.4925588 -0.86809270 -0.1947290 -  
1.6199259  
## [725,] 0.6861450 -0.4606618 -0.2466454 -0.05248933 -1.2813384 -  
1.6199259  
## [726,] -0.1094996 1.8579516 -0.9858495 0.76311405 -0.1947290 -  
0.1049952  
## [727,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [728,] -1.7007887 -1.2335329 0.4925588 0.76311405 0.8918804 -  
0.1049952  
## [729,] -0.1094996 -0.4606618 1.9709672 -0.86809270 0.8918804  
1.4099355  
## [730,] 0.6861450 -0.4606618 1.2317630 1.57871742 0.8918804  
1.4099355  
## [731,] 1.4817895 1.8579516 -0.9858495 -0.86809270 -2.3679478 -  
0.8624606  
## [732,] -0.9051442 0.3122093 1.2317630 -0.05248933 0.8918804  
0.6524702  
## [733,] 0.6861450 1.8579516 0.4925588 -0.05248933 0.8918804 -  
0.8624606  
## [734,] 1.4817895 1.8579516 1.9709672 0.76311405 -1.2813384 -  
0.1049952  
## [735,] -0.9051442 -1.2335329 1.9709672 0.76311405 -1.2813384 -  
0.1049952  
## [736,] 0.6861450 0.3122093 0.4925588 0.76311405 -3.4545571 -  
1.6199259  
## [737,] 1.4817895 1.0850805 -0.2466454 0.76311405 -0.1947290 -  
0.8624606  
## [738,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
0.8624606
```



```
## [739,] -1.7007887  0.3122093  1.2317630  1.57871742  0.8918804
1.4099355
## [740,]  0.6861450  1.8579516  1.9709672  2.39432079  0.8918804
1.4099355
## [741,] -0.1094996  1.8579516  0.4925588 -0.05248933  0.8918804
0.6524702
## [742,] -1.7007887 -1.2335329  1.9709672  0.76311405 -1.2813384 -
1.6199259
## [743,]  1.4817895  0.3122093  1.2317630  0.76311405  0.8918804
0.6524702
## [744,] -0.9051442 -0.4606618  0.4925588  0.76311405 -0.1947290
1.4099355
## [745,] -1.7007887 -1.2335329 -0.9858495  0.76311405 -0.1947290
0.6524702
## [746,]  0.6861450  0.3122093  1.2317630  1.57871742  0.8918804
1.4099355
## [747,] -1.7007887 -1.2335329  1.9709672 -0.86809270  0.8918804 -
0.1049952
## [748,]  0.6861450 -0.4606618 -0.9858495 -0.05248933 -3.4545571
0.6524702
## [749,] -0.1094996 -0.4606618 -0.2466454 -0.05248933  0.8918804
1.4099355
## [750,]  0.6861450 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
## [751,]  1.4817895 -0.4606618  1.2317630  0.76311405 -1.2813384 -
0.1049952
## [752,] -0.9051442 -1.2335329 -0.9858495 -0.86809270  0.8918804 -
0.8624606
## [753,]  1.4817895 -1.2335329  0.4925588 -0.86809270 -0.1947290 -
0.8624606
## [754,]  0.6861450  1.0850805 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [755,] -0.9051442  1.0850805  1.2317630  0.76311405 -0.1947290
0.6524702
## [756,] -0.1094996  0.3122093  1.2317630  1.57871742  0.8918804
0.6524702
## [757,]  0.6861450  0.3122093  0.4925588  0.76311405  0.8918804
1.4099355
## [758,]  0.6861450 -1.2335329 -0.9858495  1.57871742 -0.1947290 -
1.6199259
## [759,] -0.9051442 -1.2335329  0.4925588  1.57871742 -0.1947290
1.4099355
## [760,]  0.6861450 -0.4606618  1.2317630 -0.05248933 -1.2813384 -
0.1049952
## [761,] -0.1094996  1.8579516  0.4925588  0.76311405 -1.2813384 -
0.1049952
## [762,] -0.9051442  0.3122093  0.4925588  0.76311405  0.8918804
1.4099355
## [763,] -0.1094996  1.8579516  0.4925588  0.76311405 -0.1947290
0.6524702
```

[764,] -0.9051442 0.3122093 -0.9858495 -0.86809270 -1.2813384 -
0.1049952
[765,] 0.6861450 -1.2335329 -0.2466454 -0.05248933 -1.2813384 -
1.6199259
[766,] 1.4817895 -1.2335329 0.4925588 1.57871742 0.8918804
1.4099355
[767,] 0.6861450 1.0850805 0.4925588 0.76311405 -0.1947290
0.6524702
[768,] -0.9051442 1.0850805 0.4925588 -0.86809270 -3.4545571 -
1.6199259
[769,] -0.1094996 0.3122093 -0.2466454 -0.05248933 -0.1947290
0.6524702
[770,] 0.6861450 1.0850805 1.2317630 1.57871742 -0.1947290
0.6524702
[771,] -0.9051442 0.3122093 -0.2466454 0.76311405 -0.1947290 -
0.1049952
[772,] -0.9051442 1.0850805 0.4925588 -0.86809270 0.8918804
0.6524702
[773,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
[774,] -0.1094996 0.3122093 0.4925588 0.76311405 -1.2813384 -
0.1049952
[775,] -0.1094996 1.0850805 -0.2466454 -0.86809270 0.8918804 -
1.6199259
[776,] 0.6861450 -0.4606618 -0.2466454 -0.05248933 0.8918804
1.4099355
[777,] -0.1094996 1.8579516 -0.9858495 -0.86809270 0.8918804
1.4099355
[778,] -0.9051442 0.3122093 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[779,] -0.1094996 -1.2335329 -0.2466454 -0.86809270 0.8918804 -
1.6199259
[780,] 1.4817895 1.0850805 -0.2466454 -0.05248933 0.8918804 -
0.1049952
[781,] 0.6861450 1.0850805 1.2317630 -0.86809270 -0.1947290 -
0.1049952
[782,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 -2.3679478 -
0.8624606
[783,] 1.4817895 -1.2335329 0.4925588 0.76311405 0.8918804
0.6524702
[784,] -0.1094996 0.3122093 -0.2466454 0.76311405 0.8918804
1.4099355
[785,] 1.4817895 1.8579516 -0.2466454 -0.05248933 -0.1947290 -
0.8624606
[786,] -0.1094996 1.0850805 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
[787,] -0.9051442 1.0850805 -0.2466454 -0.05248933 0.8918804 -
1.6199259
[788,] 0.6861450 1.8579516 0.4925588 -0.05248933 -0.1947290 -
1.6199259

[789,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
[790,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 0.8918804
1.4099355
[791,] 0.6861450 -1.2335329 0.4925588 1.57871742 -0.1947290 -
0.8624606
[792,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 -0.1947290
0.6524702
[793,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
[794,] -0.1094996 0.3122093 1.2317630 1.57871742 -2.3679478
0.6524702
[795,] -1.7007887 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
[796,] 0.6861450 1.0850805 1.2317630 1.57871742 -0.1947290
0.6524702
[797,] 0.6861450 1.0850805 1.2317630 1.57871742 -1.2813384
0.6524702
[798,] -0.9051442 0.3122093 -0.2466454 -0.86809270 0.8918804
1.4099355
[799,] 0.6861450 1.8579516 -0.2466454 -0.05248933 0.8918804 -
0.8624606
[800,] -0.9051442 0.3122093 1.2317630 0.76311405 0.8918804
1.4099355
[801,] -1.7007887 -0.4606618 1.2317630 0.76311405 -0.1947290
0.6524702
[802,] -1.7007887 -1.2335329 -0.9858495 -0.05248933 -1.2813384 -
0.8624606
[803,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
[804,] -0.1094996 0.3122093 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[805,] -0.1094996 0.3122093 -0.9858495 -0.86809270 0.8918804 -
0.8624606
[806,] 0.6861450 0.3122093 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[807,] 1.4817895 1.8579516 -0.9858495 -0.86809270 0.8918804
1.4099355
[808,] -0.1094996 1.8579516 -0.9858495 -0.86809270 0.8918804 -
0.8624606
[809,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[810,] -0.1094996 1.8579516 -0.9858495 -0.86809270 -0.1947290
1.4099355
[811,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
0.1049952
[812,] 1.4817895 1.0850805 -0.2466454 0.76311405 -1.2813384 -
0.1049952
[813,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
0.1049952

[814,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[815,] 0.6861450 0.3122093 0.4925588 -0.05248933 0.8918804 -
0.1049952
[816,] 1.4817895 0.3122093 1.2317630 1.57871742 -0.1947290 -
0.1049952
[817,] 0.6861450 1.8579516 0.4925588 0.76311405 0.8918804
0.6524702
[818,] -1.7007887 1.0850805 -0.9858495 -0.86809270 0.8918804
1.4099355
[819,] -0.9051442 1.0850805 -0.9858495 -0.86809270 -0.1947290
1.4099355
[820,] -0.1094996 0.3122093 0.4925588 0.76311405 0.8918804 -
0.1049952
[821,] 1.4817895 -1.2335329 0.4925588 -0.86809270 0.8918804 -
0.8624606
[822,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 0.8918804
1.4099355
[823,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
[824,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -0.1947290 -
0.1049952
[825,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -
0.1049952
[826,] -0.9051442 -1.2335329 -0.2466454 -0.86809270 -0.1947290
0.6524702
[827,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
[828,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
[829,] -1.7007887 1.0850805 0.4925588 -0.05248933 0.8918804 -
0.1049952
[830,] 0.6861450 1.8579516 -0.2466454 -0.86809270 0.8918804
0.6524702
[831,] 0.6861450 -1.2335329 1.9709672 1.57871742 0.8918804
1.4099355
[832,] -0.1094996 0.3122093 0.4925588 -0.05248933 0.8918804 -
0.1049952
[833,] -0.1094996 0.3122093 -0.9858495 -0.05248933 -2.3679478 -
0.8624606
[834,] 1.4817895 1.8579516 -0.2466454 1.57871742 0.8918804 -
0.1049952
[835,] -0.9051442 0.3122093 -0.9858495 -0.05248933 -1.2813384 -
0.1049952
[836,] -1.7007887 -1.2335329 1.2317630 1.57871742 0.8918804
1.4099355
[837,] -0.1094996 1.0850805 -0.9858495 -0.86809270 -0.1947290
0.6524702
[838,] -0.9051442 1.0850805 1.2317630 2.39432079 -0.1947290 -
0.1049952

[839,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -
0.8624606
[840,] -0.1094996 0.3122093 -0.9858495 -0.86809270 0.8918804 -
0.8624606
[841,] 0.6861450 0.3122093 0.4925588 -0.05248933 0.8918804 -
0.1049952
[842,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -0.1947290
0.6524702
[843,] -0.9051442 0.3122093 -0.2466454 -0.05248933 -1.2813384
1.4099355
[844,] -0.1094996 1.8579516 -0.9858495 -0.86809270 0.8918804 -
0.1049952
[845,] 0.6861450 1.8579516 1.9709672 2.39432079 0.8918804
1.4099355
[846,] -0.1094996 0.3122093 -0.2466454 -0.86809270 -1.2813384 -
0.1049952
[847,] -1.7007887 -1.2335329 -0.2466454 -0.05248933 0.8918804
0.6524702
[848,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
[849,] 1.4817895 -0.4606618 -0.9858495 -0.05248933 0.8918804 -
0.1049952
[850,] -0.9051442 0.3122093 1.9709672 1.57871742 0.8918804
0.6524702
[851,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
[852,] 1.4817895 1.0850805 1.9709672 -0.05248933 0.8918804 -
0.1049952
[853,] 0.6861450 -1.2335329 0.4925588 -0.86809270 -0.1947290
0.6524702
[854,] -0.1094996 -0.4606618 0.4925588 0.76311405 -0.1947290 -
0.1049952
[855,] -1.7007887 -0.4606618 0.4925588 0.76311405 -0.1947290
0.6524702
[856,] 0.6861450 0.3122093 1.2317630 1.57871742 0.8918804
1.4099355
[857,] -0.9051442 0.3122093 1.2317630 -0.86809270 0.8918804 -
0.8624606
[858,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 0.8918804
0.6524702
[859,] -0.1094996 0.3122093 -0.2466454 -0.86809270 -0.1947290 -
0.1049952
[860,] -1.7007887 1.0850805 -0.2466454 -0.86809270 0.8918804 -
0.1049952
[861,] 1.4817895 1.0850805 -0.9858495 0.76311405 0.8918804
0.6524702
[862,] -0.9051442 1.0850805 -0.2466454 -0.86809270 -0.1947290 -
0.1049952
[863,] -0.9051442 1.0850805 1.2317630 -0.05248933 0.8918804
1.4099355

```
## [864,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [865,] 0.6861450 -0.4606618 0.4925588 -0.86809270 -0.1947290
0.6524702
## [866,] -0.9051442 0.3122093 0.4925588 -0.05248933 -0.1947290
0.6524702
## [867,] 0.6861450 0.3122093 -0.2466454 0.76311405 0.8918804
1.4099355
## [868,] 1.4817895 1.0850805 0.4925588 0.76311405 0.8918804
0.6524702
## [869,] -1.7007887 0.3122093 -0.2466454 -0.05248933 -0.1947290 -
0.1049952
## [870,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
1.6199259
## [871,] -0.9051442 0.3122093 0.4925588 -0.05248933 -1.2813384 -
0.8624606
## [872,] 0.6861450 1.0850805 1.9709672 2.39432079 0.8918804
1.4099355
## [873,] -0.1094996 -1.2335329 -0.9858495 1.57871742 -0.1947290
0.6524702
## [874,] 0.6861450 -0.4606618 -0.2466454 -0.86809270 -0.1947290
0.6524702
## [875,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
## [876,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 0.8918804
1.4099355
## [877,] -0.9051442 1.0850805 1.9709672 1.57871742 0.8918804
1.4099355
## [878,] 1.4817895 1.8579516 0.4925588 -0.86809270 -0.1947290
0.6524702
## [879,] 0.6861450 1.0850805 1.2317630 -0.05248933 -0.1947290
0.6524702
## [880,] -0.9051442 0.3122093 1.2317630 2.39432079 -2.3679478
0.6524702
## [881,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
## [882,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -
1.6199259
## [883,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -
1.6199259
## [884,] 0.6861450 0.3122093 -0.9858495 -0.86809270 0.8918804 -
0.1049952
## [885,] -0.9051442 -1.2335329 1.2317630 -0.05248933 0.8918804 -
0.1049952
## [886,] -0.9051442 -0.4606618 -0.2466454 -0.86809270 -1.2813384 -
1.6199259
## [887,] -1.7007887 1.0850805 1.2317630 1.57871742 0.8918804
1.4099355
## [888,] -0.1094996 -0.4606618 0.4925588 -0.86809270 -1.2813384 -
0.1049952
```

```
## [889,] 1.4817895 0.3122093 -0.9858495 -0.86809270 0.8918804
0.6524702
## [890,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 0.8918804
0.6524702
## [891,] -1.7007887 -1.2335329 1.2317630 1.57871742 0.8918804
1.4099355
## [892,] -0.1094996 0.3122093 -0.2466454 -0.86809270 -0.1947290 -
0.1049952
## [893,] -0.9051442 0.3122093 1.2317630 1.57871742 -0.1947290
0.6524702
## [894,] -0.9051442 0.3122093 0.4925588 -0.05248933 -1.2813384 -
0.8624606
## [895,] -0.1094996 -1.2335329 -0.9858495 -0.86809270 0.8918804
0.6524702
## [896,] -0.9051442 -0.4606618 -0.9858495 -0.05248933 -2.3679478 -
0.8624606
## [897,] -0.9051442 1.0850805 -0.9858495 -0.86809270 0.8918804
0.6524702
## [898,] -0.1094996 -0.4606618 1.2317630 -0.05248933 -1.2813384 -
0.8624606
## [899,] 0.6861450 1.0850805 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [900,] 0.6861450 1.0850805 0.4925588 0.76311405 0.8918804
1.4099355
## [901,] -0.1094996 1.8579516 -0.2466454 -0.86809270 -0.1947290 -
0.8624606
## [902,] -0.9051442 1.8579516 -0.9858495 -0.86809270 -0.1947290 -
0.8624606
## [903,] 0.6861450 -1.2335329 0.4925588 0.76311405 -0.1947290 -
0.1049952
## [904,] -1.7007887 0.3122093 1.9709672 0.76311405 0.8918804
1.4099355
## [905,] -0.1094996 0.3122093 -0.2466454 -0.05248933 -0.1947290
0.6524702
## [906,] -0.9051442 1.0850805 -0.9858495 -0.86809270 0.8918804 -
0.1049952
## [907,] -0.9051442 1.0850805 -0.9858495 -0.86809270 0.8918804 -
0.1049952
## [908,] -0.9051442 -0.4606618 -0.2466454 -0.86809270 0.8918804 -
0.1049952
## [909,] -0.9051442 0.3122093 -0.2466454 1.57871742 -0.1947290 -
0.1049952
## [910,] 0.6861450 0.3122093 -0.2466454 -0.05248933 0.8918804
0.6524702
## [911,] -0.1094996 1.0850805 1.2317630 -0.05248933 0.8918804 -
0.1049952
## [912,] 0.6861450 0.3122093 1.9709672 0.76311405 -1.2813384 -
0.1049952
## [913,] -0.9051442 -0.4606618 0.4925588 -0.05248933 -1.2813384 -
0.8624606
```

```
## [914,] 0.6861450 0.3122093 0.4925588 -0.86809270 -1.2813384 -  
0.8624606  
## [915,] 0.6861450 1.0850805 0.4925588 -0.05248933 -1.2813384 -  
1.6199259  
## [916,] -0.9051442 -0.4606618 -0.2466454 -0.86809270 0.8918804 -  
0.8624606  
## [917,] -0.9051442 1.8579516 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [918,] -0.9051442 0.3122093 0.4925588 -0.05248933 0.8918804  
0.6524702  
## [919,] 0.6861450 0.3122093 -0.2466454 -0.05248933 -0.1947290 -  
0.8624606  
## [920,] 1.4817895 0.3122093 -0.2466454 -0.86809270 -2.3679478 -  
1.6199259  
## [921,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [922,] -0.9051442 -0.4606618 0.4925588 0.76311405 0.8918804  
0.6524702  
## [923,] 1.4817895 1.8579516 0.4925588 1.57871742 0.8918804  
1.4099355  
## [924,] -0.9051442 -0.4606618 -0.9858495 -0.05248933 0.8918804  
0.6524702  
## [925,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -  
1.6199259  
## [926,] 0.6861450 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
0.1049952  
## [927,] -1.7007887 0.3122093 0.4925588 -0.86809270 0.8918804  
1.4099355  
## [928,] 1.4817895 -1.2335329 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [929,] -0.9051442 -0.4606618 -0.9858495 -0.86809270 -0.1947290 -  
0.8624606  
## [930,] -0.1094996 0.3122093 0.4925588 0.76311405 -1.2813384  
0.6524702  
## [931,] -0.9051442 -0.4606618 -0.9858495 -0.05248933 0.8918804  
0.6524702  
## [932,] -0.9051442 0.3122093 -0.2466454 -0.86809270 -0.1947290  
1.4099355  
## [933,] -1.7007887 -0.4606618 0.4925588 -0.86809270 0.8918804  
1.4099355  
## [934,] -1.7007887 1.0850805 -0.2466454 -0.86809270 -0.1947290 -  
1.6199259  
## [935,] 1.4817895 -0.4606618 -0.2466454 -0.05248933 0.8918804 -  
0.8624606  
## [936,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 0.8918804 -  
1.6199259  
## [937,] -0.9051442 -1.2335329 -0.2466454 -0.86809270 -1.2813384 -  
0.8624606  
## [938,] 1.4817895 -1.2335329 1.9709672 1.57871742 0.8918804 -  
0.1049952
```



```
## [939,] 0.6861450 0.3122093 1.9709672 0.76311405 -0.1947290 -  
0.1049952  
## [940,] 1.4817895 -0.4606618 0.4925588 1.57871742 -0.1947290 -  
1.6199259  
## [941,] -0.1094996 -0.4606618 0.4925588 0.76311405 0.8918804  
1.4099355  
## [942,] 0.6861450 1.8579516 -0.2466454 -0.86809270 0.8918804 -  
0.1049952  
## [943,] -0.1094996 1.0850805 -0.9858495 -0.86809270 0.8918804 -  
0.8624606  
## [944,] -0.9051442 0.3122093 1.2317630 0.76311405 -0.1947290 -  
0.8624606  
## [945,] -0.9051442 0.3122093 -0.2466454 0.76311405 -1.2813384 -  
1.6199259  
## [946,] -0.9051442 0.3122093 1.9709672 2.39432079 0.8918804  
1.4099355  
## [947,] -0.9051442 -1.2335329 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [948,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -1.2813384 -  
0.8624606  
## [949,] -0.9051442 -0.4606618 1.9709672 1.57871742 -1.2813384 -  
0.1049952  
## [950,] -0.1094996 -1.2335329 -0.2466454 -0.86809270 -1.2813384 -  
0.8624606  
## [951,] -1.7007887 0.3122093 -0.9858495 -0.86809270 0.8918804  
1.4099355  
## [952,] -1.7007887 -0.4606618 0.4925588 1.57871742 0.8918804  
1.4099355  
## [953,] -0.9051442 0.3122093 1.9709672 1.57871742 -0.1947290  
1.4099355  
## [954,] 0.6861450 0.3122093 0.4925588 -0.05248933 -1.2813384 -  
1.6199259  
## [955,] 1.4817895 -1.2335329 1.2317630 -0.86809270 0.8918804 -  
0.8624606  
## [956,] 1.4817895 -1.2335329 1.9709672 1.57871742 -1.2813384 -  
0.8624606  
## [957,] -0.9051442 -0.4606618 -0.2466454 0.76311405 -0.1947290 -  
0.1049952  
## [958,] -0.1094996 0.3122093 -0.9858495 -0.86809270 -0.1947290  
0.6524702  
## [959,] 0.6861450 -0.4606618 -0.9858495 -0.86809270 -2.3679478 -  
1.6199259  
## [960,] 0.6861450 -0.4606618 0.4925588 -0.86809270 0.8918804 -  
0.8624606  
## [961,] -0.1094996 0.3122093 0.4925588 0.76311405 0.8918804 -  
0.1049952  
## [962,] 1.4817895 1.8579516 1.9709672 0.76311405 0.8918804  
1.4099355  
## [963,] -0.1094996 -1.2335329 0.4925588 1.57871742 -1.2813384 -  
1.6199259
```

## [964,]	1.4817895	1.8579516	-0.9858495	1.57871742	0.8918804	
1.4099355						
## [965,]	0.6861450	-0.4606618	-0.2466454	-0.05248933	-0.1947290	-
0.1049952						
## [966,]	1.4817895	-1.2335329	-0.9858495	0.76311405	0.8918804	-
0.8624606						
## [967,]	1.4817895	1.8579516	-0.9858495	-0.86809270	-3.4545571	-
1.6199259						
## [968,]	-0.9051442	0.3122093	1.9709672	2.39432079	-0.1947290	-
0.1049952						
## [969,]	-1.7007887	-1.2335329	1.9709672	1.57871742	0.8918804	
1.4099355						
## [970,]	-0.1094996	-1.2335329	0.4925588	-0.86809270	0.8918804	
1.4099355						
## [971,]	-0.1094996	-0.4606618	1.2317630	1.57871742	0.8918804	
1.4099355						
## [972,]	-0.9051442	0.3122093	0.4925588	0.76311405	-0.1947290	
0.6524702						
## [973,]	0.6861450	-0.4606618	0.4925588	0.76311405	-0.1947290	-
0.8624606						
## [974,]	0.6861450	-1.2335329	-0.9858495	-0.05248933	0.8918804	
1.4099355						
## [975,]	0.6861450	0.3122093	1.9709672	0.76311405	0.8918804	-
0.8624606						
## [976,]	0.6861450	0.3122093	-0.9858495	1.57871742	0.8918804	-
1.6199259						
## [977,]	1.4817895	-0.4606618	1.2317630	0.76311405	-0.1947290	
0.6524702						
## [978,]	-1.7007887	0.3122093	0.4925588	-0.86809270	-0.1947290	-
0.8624606						
## [979,]	-0.1094996	0.3122093	-0.2466454	-0.05248933	0.8918804	-
0.1049952						
## [980,]	-0.1094996	1.8579516	0.4925588	-0.05248933	0.8918804	-
0.1049952						
## [981,]	1.4817895	1.8579516	-0.9858495	-0.05248933	-0.1947290	-
1.6199259						
## [982,]	1.4817895	-0.4606618	-0.9858495	-0.05248933	0.8918804	-
1.6199259						
## [983,]	-0.9051442	0.3122093	0.4925588	1.57871742	-0.1947290	
0.6524702						
## [984,]	-0.9051442	0.3122093	-0.9858495	-0.86809270	-0.1947290	-
1.6199259						
## [985,]	-1.7007887	1.0850805	-0.9858495	-0.86809270	-0.1947290	-
0.8624606						
## [986,]	-0.1094996	-0.4606618	-0.9858495	-0.05248933	-1.2813384	-
0.8624606						
## [987,]	1.4817895	0.3122093	1.9709672	0.76311405	-0.1947290	
0.6524702						
## [988,]	1.4817895	1.0850805	-0.2466454	-0.05248933	0.8918804	-
0.8624606						

```

## [989,] 1.4817895 1.8579516 1.2317630 2.39432079 0.8918804
1.4099355
## [990,] 1.4817895 1.8579516 -0.9858495 -0.86809270 0.8918804
1.4099355
## [991,] -0.9051442 1.8579516 -0.9858495 -0.86809270 0.8918804
1.4099355
## [992,] -1.7007887 -0.4606618 -0.9858495 -0.86809270 0.8918804
1.4099355
## [993,] -0.9051442 0.3122093 1.9709672 2.39432079 -0.1947290 -
0.1049952
## [994,] 0.6861450 1.8579516 -0.9858495 -0.86809270 -1.2813384 -
0.8624606
## [995,] 1.4817895 -0.4606618 -0.9858495 -0.86809270 0.8918804 -
1.6199259
## [996,] 0.6861450 0.3122093 1.2317630 -0.05248933 0.8918804
0.6524702
## [997,] -1.7007887 -1.2335329 -0.9858495 -0.86809270 -0.1947290
0.6524702
## [998,] 1.4817895 -1.2335329 -0.2466454 -0.86809270 -0.1947290 -
1.6199259
## [999,] 0.6861450 -0.4606618 1.9709672 2.39432079 0.8918804
1.4099355
## [1000,] 1.4817895 0.3122093 1.9709672 0.76311405 0.8918804
1.4099355
## [1001,] -0.1094996 -0.4606618 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [1002,] -0.9051442 0.3122093 -0.9858495 -0.86809270 0.8918804 -
0.1049952
## [1003,] -0.9051442 -1.2335329 -0.9858495 0.76311405 0.8918804
1.4099355
## [1004,] 0.6861450 0.3122093 -0.9858495 -0.86809270 -1.2813384 -
1.6199259
## [1005,] 0.6861450 -1.2335329 -0.2466454 -0.05248933 0.8918804
1.4099355
## [1006,] 0.6861450 -0.4606618 -0.9858495 -0.05248933 -0.1947290 -
0.1049952
## [1007,] -1.7007887 -1.2335329 1.9709672 1.57871742 0.8918804
1.4099355
## [1008,] -0.1094996 0.3122093 0.4925588 -0.86809270 -1.2813384
0.6524702
## [1009,] 1.4817895 0.3122093 -0.9858495 -0.86809270 0.8918804
0.6524702
## [1010,] -0.1094996 -1.2335329 -0.2466454 -0.05248933 -0.1947290 -
0.8624606
##
## Economy.Management Biology Chemistry Reading Geography
## [1,] 1.7524146 0.2323720 0.6102413 -0.1052355 -0.0650566
## [2,] 1.7524146 -1.2074790 -0.8433995 0.5632416 0.7171715
## [3,] 1.0090552 -1.2074790 -0.8433995 1.2317188 -0.8472847
## [4,] -0.4776636 0.2323720 0.6102413 1.2317188 0.7171715
## [5,] -0.4776636 0.2323720 0.6102413 1.2317188 -0.8472847

```

##	[6,]	-1.2210230	0.9522975	1.3370617	-0.1052355	-0.0650566
##	[7,]	0.2656958	1.6722230	2.0638820	-0.1052355	-0.0650566
##	[8,]	-1.2210230	-0.4875535	-0.1165791	-0.7737127	-0.0650566
##	[9,]	-1.2210230	0.2323720	-0.8433995	1.2317188	-1.6295129
##	[10,]	1.0090552	-0.4875535	-0.8433995	0.5632416	0.7171715
##	[11,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	-0.0650566
##	[12,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	1.4993997
##	[13,]	-1.2210230	1.6722230	2.0638820	1.2317188	-0.0650566
##	[14,]	0.2656958	-1.2074790	-0.8433995	0.5632416	-1.6295129
##	[15,]	0.2656958	-0.4875535	-0.8433995	0.5632416	-1.6295129
##	[16,]	0.2656958	1.6722230	-0.1165791	-0.1052355	-0.0650566
##	[17,]	-1.2210230	0.9522975	-0.8433995	-1.4421898	-1.6295129
##	[18,]	-1.2210230	1.6722230	2.0638820	0.5632416	-0.8472847
##	[19,]	0.2656958	0.2323720	0.6102413	-0.1052355	-1.6295129
##	[20,]	1.0090552	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[21,]	-0.4776636	0.9522975	1.3370617	-0.1052355	-0.0650566
##	[22,]	1.7524146	0.2323720	-0.8433995	-1.4421898	1.4993997
##	[23,]	0.2656958	0.2323720	-0.1165791	-0.7737127	-0.0650566
##	[24,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.0650566
##	[25,]	-0.4776636	0.2323720	-0.1165791	0.5632416	0.7171715
##	[26,]	1.7524146	-1.2074790	-0.8433995	0.5632416	-0.8472847
##	[27,]	-1.2210230	1.6722230	2.0638820	0.5632416	-0.0650566
##	[28,]	-0.4776636	1.6722230	2.0638820	-0.7737127	-0.8472847
##	[29,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	0.7171715
##	[30,]	1.0090552	0.9522975	-0.1165791	1.2317188	-0.0650566
##	[31,]	0.2656958	0.2323720	-0.8433995	0.5632416	0.7171715
##	[32,]	-0.4776636	-0.4875535	-0.1165791	1.2317188	1.4993997
##	[33,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	-0.0650566
##	[34,]	1.0090552	0.9522975	0.6102413	1.2317188	1.4993997
##	[35,]	1.0090552	0.2323720	-0.8433995	-0.1052355	-0.8472847
##	[36,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.0650566
##	[37,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.0650566
##	[38,]	-0.4776636	1.6722230	0.6102413	-0.7737127	-0.8472847
##	[39,]	1.7524146	1.6722230	-0.8433995	1.2317188	-0.0650566
##	[40,]	-0.4776636	0.2323720	2.0638820	-0.1052355	-0.0650566
##	[41,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	-0.0650566
##	[42,]	-1.2210230	-1.2074790	2.0638820	1.2317188	-0.0650566
##	[43,]	1.7524146	1.6722230	-0.1165791	-0.1052355	-0.8472847
##	[44,]	1.7524146	-1.2074790	-0.8433995	-0.1052355	1.4993997
##	[45,]	1.0090552	0.2323720	-0.1165791	1.2317188	0.7171715
##	[46,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	-1.6295129
##	[47,]	-0.4776636	-0.4875535	-0.8433995	1.2317188	0.7171715
##	[48,]	1.0090552	-0.4875535	-0.8433995	1.2317188	-0.0650566
##	[49,]	1.0090552	0.2323720	-0.1165791	-0.7737127	-0.0650566
##	[50,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-0.8472847
##	[51,]	-1.2210230	1.6722230	2.0638820	0.5632416	-0.0650566
##	[52,]	-0.4776636	1.6722230	2.0638820	-0.1052355	-0.0650566
##	[53,]	-0.4776636	0.2323720	1.3370617	1.2317188	-0.0650566
##	[54,]	-0.4776636	0.9522975	-0.1165791	0.5632416	1.4993997
##	[55,]	-1.2210230	0.2323720	1.3370617	1.2317188	-0.0650566

##	[56,]	0.2656958	0.2323720	1.3370617	-0.1052355	0.7171715
##	[57,]	1.0090552	-0.4875535	-0.8433995	1.2317188	-0.8472847
##	[58,]	0.2656958	0.2323720	-0.8433995	1.2317188	-0.8472847
##	[59,]	-1.2210230	1.6722230	1.3370617	-1.4421898	1.4993997
##	[60,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	1.4993997
##	[61,]	1.0090552	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[62,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-0.0650566
##	[63,]	0.2656958	0.2323720	0.6102413	-0.7737127	1.4993997
##	[64,]	1.0090552	-1.2074790	-0.8433995	-0.7737127	-0.0650566
##	[65,]	-1.2210230	1.6722230	2.0638820	-0.7737127	-1.6295129
##	[66,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	1.4993997
##	[67,]	-0.4776636	-1.2074790	-0.1165791	-1.4421898	0.7171715
##	[68,]	1.7524146	-0.4875535	-0.1165791	-0.1052355	-0.0650566
##	[69,]	1.0090552	0.2323720	2.0638820	-0.7737127	-0.0650566
##	[70,]	-1.2210230	1.6722230	2.0638820	-0.1052355	-1.6295129
##	[71,]	0.2656958	-1.2074790	-0.8433995	-0.7737127	-1.6295129
##	[72,]	1.0090552	-1.2074790	-0.8433995	-0.1052355	0.7171715
##	[73,]	-1.2210230	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[74,]	0.2656958	-0.4875535	-0.1165791	-0.7737127	0.7171715
##	[75,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	0.7171715
##	[76,]	1.7524146	0.9522975	-0.8433995	-0.7737127	1.4993997
##	[77,]	-0.4776636	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[78,]	-1.2210230	1.6722230	2.0638820	1.2317188	1.4993997
##	[79,]	1.0090552	1.6722230	2.0638820	1.2317188	1.4993997
##	[80,]	1.7524146	0.2323720	-0.8433995	-1.4421898	-0.0650566
##	[81,]	0.2656958	-0.4875535	-0.8433995	-0.7737127	-0.8472847
##	[82,]	1.0090552	-1.2074790	-0.1165791	-0.7737127	-0.0650566
##	[83,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	-0.0650566
##	[84,]	0.2656958	1.6722230	0.6102413	-0.7737127	-0.8472847
##	[85,]	-1.2210230	0.9522975	1.3370617	1.2317188	1.4993997
##	[86,]	0.2656958	-0.4875535	-0.1165791	-0.7737127	-0.0650566
##	[87,]	1.7524146	0.9522975	1.3370617	1.2317188	1.4993997
##	[88,]	1.0090552	0.2323720	-0.1165791	-0.1052355	0.7171715
##	[89,]	-1.2210230	0.9522975	-0.8433995	1.2317188	1.4993997
##	[90,]	-0.4776636	-0.4875535	-0.8433995	0.5632416	-0.0650566
##	[91,]	-1.2210230	-0.4875535	-0.1165791	-0.1052355	-1.6295129
##	[92,]	-1.2210230	1.6722230	-0.8433995	-1.4421898	-1.6295129
##	[93,]	-0.4776636	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[94,]	0.2656958	-0.4875535	-0.1165791	-1.4421898	1.4993997
##	[95,]	0.2656958	-0.4875535	-0.1165791	-0.7737127	-0.0650566
##	[96,]	-0.4776636	-0.4875535	-0.8433995	-1.4421898	1.4993997
##	[97,]	-1.2210230	0.2323720	1.3370617	-1.4421898	-1.6295129
##	[98,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	-1.6295129
##	[99,]	-1.2210230	-0.4875535	-0.8433995	-0.1052355	1.4993997
##	[100,]	-1.2210230	0.2323720	2.0638820	-0.1052355	1.4993997
##	[101,]	-0.4776636	1.6722230	2.0638820	-0.1052355	-0.8472847
##	[102,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	0.7171715
##	[103,]	-0.4776636	0.9522975	1.3370617	1.2317188	1.4993997
##	[104,]	-0.4776636	-0.4875535	-0.8433995	1.2317188	1.4993997
##	[105,]	1.0090552	-0.4875535	-0.1165791	-0.7737127	0.7171715

## [106,]	-1.2210230	-1.2074790	1.3370617	-0.1052355	-1.6295129
## [107,]	1.7524146	-0.4875535	-0.8433995	-0.7737127	-0.0650566
## [108,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.8472847
## [109,]	-1.2210230	-1.2074790	-0.8433995	-0.7737127	-1.6295129
## [110,]	1.0090552	-0.4875535	-0.1165791	-1.4421898	-0.8472847
## [111,]	-0.4776636	1.6722230	-0.8433995	-1.4421898	1.4993997
## [112,]	-1.2210230	0.2323720	-0.1165791	1.2317188	-0.0650566
## [113,]	-1.2210230	1.6722230	1.3370617	1.2317188	-0.0650566
## [114,]	-1.2210230	0.2323720	0.6102413	-1.4421898	-0.8472847
## [115,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	-0.0650566
## [116,]	-0.4776636	0.2323720	0.6102413	-0.1052355	0.7171715
## [117,]	-1.2210230	-1.2074790	0.6102413	1.2317188	-1.6295129
## [118,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	-0.8472847
## [119,]	-0.4776636	-0.4875535	-0.1165791	0.5632416	0.7171715
## [120,]	-1.2210230	-0.4875535	1.3370617	-0.1052355	0.7171715
## [121,]	1.7524146	0.2323720	2.0638820	1.2317188	1.4993997
## [122,]	0.2656958	-0.4875535	-0.1165791	-1.4421898	-1.6295129
## [123,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.0650566
## [124,]	-0.4776636	0.9522975	-0.1165791	-0.1052355	-0.0650566
## [125,]	0.2656958	-0.4875535	-0.1165791	0.5632416	0.7171715
## [126,]	-0.4776636	0.2323720	-0.1165791	1.2317188	-0.8472847
## [127,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-0.8472847
## [128,]	0.2656958	-0.4875535	-0.8433995	0.5632416	1.4993997
## [129,]	-1.2210230	0.2323720	2.0638820	1.2317188	1.4993997
## [130,]	-1.2210230	1.6722230	1.3370617	-0.1052355	-0.8472847
## [131,]	1.0090552	-1.2074790	-0.8433995	1.2317188	1.4993997
## [132,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-1.6295129
## [133,]	-0.4776636	0.9522975	-0.8433995	0.5632416	1.4993997
## [134,]	-1.2210230	0.2323720	-0.8433995	1.2317188	-0.0650566
## [135,]	0.2656958	0.2323720	0.6102413	-0.1052355	-0.0650566
## [136,]	-1.2210230	0.2323720	-0.8433995	0.5632416	0.7171715
## [137,]	0.2656958	1.6722230	2.0638820	-0.1052355	-0.0650566
## [138,]	-0.4776636	0.9522975	0.6102413	0.5632416	1.4993997
## [139,]	-0.4776636	1.6722230	1.3370617	1.2317188	-0.0650566
## [140,]	-1.2210230	0.2323720	-0.1165791	-0.1052355	-1.6295129
## [141,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-0.0650566
## [142,]	1.7524146	0.2323720	1.3370617	0.5632416	-1.6295129
## [143,]	1.0090552	-1.2074790	-0.8433995	0.5632416	0.7171715
## [144,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	-1.6295129
## [145,]	-1.2210230	1.6722230	2.0638820	-0.7737127	-0.0650566
## [146,]	-1.2210230	-0.4875535	-0.8433995	-0.1052355	-0.0650566
## [147,]	0.2656958	-0.4875535	-0.8433995	0.5632416	0.7171715
## [148,]	-0.4776636	-0.4875535	0.6102413	1.2317188	1.4993997
## [149,]	0.2656958	0.2323720	1.3370617	-1.4421898	0.7171715
## [150,]	0.2656958	-0.4875535	0.6102413	-0.7737127	-0.0650566
## [151,]	1.7524146	-0.4875535	-0.1165791	0.5632416	0.7171715
## [152,]	-1.2210230	-0.4875535	-0.8433995	-0.1052355	0.7171715
## [153,]	1.7524146	-0.4875535	-0.1165791	-0.7737127	-0.0650566
## [154,]	0.2656958	-0.4875535	-0.8433995	0.5632416	-0.8472847
## [155,]	1.7524146	-0.4875535	-0.1165791	-1.4421898	1.4993997

##	[156,]	-1.2210230	0.9522975	0.6102413	0.5632416	-0.0650566
##	[157,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	0.7171715
##	[158,]	-0.4776636	-0.4875535	-0.1165791	0.5632416	-0.0650566
##	[159,]	-1.2210230	0.2323720	0.6102413	0.5632416	0.7171715
##	[160,]	1.0090552	0.9522975	-0.1165791	0.5632416	1.4993997
##	[161,]	1.7524146	-0.4875535	0.6102413	-1.4421898	1.4993997
##	[162,]	-1.2210230	1.6722230	2.0638820	1.2317188	-0.8472847
##	[163,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	1.4993997
##	[164,]	0.2656958	0.2323720	0.6102413	-0.7737127	-0.8472847
##	[165,]	-1.2210230	-0.4875535	-0.8433995	0.5632416	-1.6295129
##	[166,]	1.0090552	-1.2074790	-0.8433995	1.2317188	0.7171715
##	[167,]	0.2656958	-0.4875535	1.3370617	0.5632416	-0.0650566
##	[168,]	0.2656958	0.2323720	-0.1165791	-1.4421898	-0.0650566
##	[169,]	1.7524146	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[170,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	-0.0650566
##	[171,]	1.7524146	0.9522975	-0.8433995	-0.1052355	1.4993997
##	[172,]	1.7524146	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[173,]	-0.4776636	-0.4875535	-0.1165791	-0.7737127	1.4993997
##	[174,]	-0.4776636	-0.4875535	0.6102413	-1.4421898	-0.8472847
##	[175,]	0.2656958	-1.2074790	-0.8433995	0.5632416	1.4993997
##	[176,]	-1.2210230	0.2323720	-0.8433995	1.2317188	-1.6295129
##	[177,]	1.0090552	-1.2074790	-0.1165791	-1.4421898	-1.6295129
##	[178,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[179,]	-1.2210230	0.2323720	0.6102413	0.5632416	-0.0650566
##	[180,]	-0.4776636	0.9522975	-0.1165791	-0.7737127	-0.8472847
##	[181,]	1.7524146	-1.2074790	-0.8433995	1.2317188	0.7171715
##	[182,]	0.2656958	-0.4875535	-0.1165791	-0.1052355	-0.0650566
##	[183,]	-0.4776636	1.6722230	1.3370617	0.5632416	-0.8472847
##	[184,]	-0.4776636	0.9522975	-0.1165791	1.2317188	1.4993997
##	[185,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.0650566
##	[186,]	-1.2210230	1.6722230	-0.8433995	1.2317188	-0.8472847
##	[187,]	1.0090552	-1.2074790	-0.8433995	1.2317188	-0.0650566
##	[188,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-0.8472847
##	[189,]	-1.2210230	-0.4875535	2.0638820	1.2317188	0.7171715
##	[190,]	0.2656958	-1.2074790	-0.8433995	1.2317188	-0.8472847
##	[191,]	0.2656958	1.6722230	1.3370617	1.2317188	-0.0650566
##	[192,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-0.8472847
##	[193,]	1.0090552	0.2323720	-0.8433995	-0.1052355	-0.8472847
##	[194,]	-1.2210230	0.2323720	-0.8433995	0.5632416	-0.8472847
##	[195,]	1.0090552	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[196,]	0.2656958	0.2323720	-0.8433995	-0.7737127	1.4993997
##	[197,]	0.2656958	0.2323720	-0.8433995	0.5632416	0.7171715
##	[198,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	0.7171715
##	[199,]	-1.2210230	-1.2074790	-0.8433995	-0.7737127	-1.6295129
##	[200,]	0.2656958	-0.4875535	-0.8433995	0.5632416	-0.0650566
##	[201,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	0.7171715
##	[202,]	1.7524146	-1.2074790	-0.8433995	1.2317188	1.4993997
##	[203,]	0.2656958	1.6722230	1.3370617	-1.4421898	-0.0650566
##	[204,]	0.2656958	1.6722230	2.0638820	-0.1052355	-1.6295129
##	[205,]	0.2656958	-1.2074790	-0.1165791	1.2317188	-0.8472847

##	[206,]	-1.2210230	0.9522975	1.3370617	1.2317188	-0.0650566
##	[207,]	-0.4776636	-0.4875535	1.3370617	1.2317188	-0.0650566
##	[208,]	-0.4776636	0.2323720	-0.1165791	1.2317188	1.4993997
##	[209,]	-1.2210230	0.2323720	-0.1165791	-0.1052355	-0.0650566
##	[210,]	0.2656958	-0.4875535	-0.1165791	0.5632416	1.4993997
##	[211,]	1.0090552	1.6722230	1.3370617	1.2317188	0.7171715
##	[212,]	1.0090552	-1.2074790	-0.8433995	-0.1052355	-0.8472847
##	[213,]	1.0090552	0.2323720	0.6102413	1.2317188	0.7171715
##	[214,]	1.0090552	1.6722230	2.0638820	1.2317188	0.7171715
##	[215,]	-0.4776636	1.6722230	2.0638820	0.5632416	1.4993997
##	[216,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.0650566
##	[217,]	-1.2210230	0.9522975	1.3370617	-0.1052355	-1.6295129
##	[218,]	0.2656958	-0.4875535	-0.1165791	1.2317188	1.4993997
##	[219,]	-0.4776636	1.6722230	2.0638820	-0.1052355	-0.0650566
##	[220,]	0.2656958	-1.2074790	-0.8433995	-1.4421898	1.4993997
##	[221,]	-1.2210230	1.6722230	2.0638820	-0.1052355	-1.6295129
##	[222,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	1.4993997
##	[223,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	-0.0650566
##	[224,]	-0.4776636	1.6722230	0.6102413	1.2317188	-0.0650566
##	[225,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[226,]	1.0090552	-0.4875535	-0.1165791	0.5632416	0.7171715
##	[227,]	0.2656958	-1.2074790	-0.8433995	-1.4421898	0.7171715
##	[228,]	-0.4776636	0.9522975	1.3370617	1.2317188	1.4993997
##	[229,]	0.2656958	0.9522975	2.0638820	0.5632416	-0.0650566
##	[230,]	-0.4776636	0.2323720	-0.1165791	-1.4421898	1.4993997
##	[231,]	1.7524146	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[232,]	1.0090552	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[233,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	1.4993997
##	[234,]	-0.4776636	0.9522975	1.3370617	0.5632416	-1.6295129
##	[235,]	1.7524146	-0.4875535	-0.1165791	-1.4421898	-1.6295129
##	[236,]	-1.2210230	-0.4875535	0.6102413	1.2317188	0.7171715
##	[237,]	-0.4776636	0.2323720	1.3370617	1.2317188	-0.8472847
##	[238,]	1.7524146	-1.2074790	-0.8433995	0.5632416	1.4993997
##	[239,]	1.0090552	-0.4875535	-0.8433995	-1.4421898	-0.8472847
##	[240,]	0.2656958	0.9522975	-0.1165791	0.5632416	0.7171715
##	[241,]	1.0090552	-0.4875535	-0.1165791	-1.4421898	-0.0650566
##	[242,]	-1.2210230	-0.4875535	-0.8433995	-0.7737127	-0.8472847
##	[243,]	1.0090552	-0.4875535	-0.8433995	0.5632416	-1.6295129
##	[244,]	-0.4776636	1.6722230	0.6102413	1.2317188	-0.8472847
##	[245,]	-1.2210230	0.2323720	-0.8433995	1.2317188	-1.6295129
##	[246,]	0.2656958	-1.2074790	-0.8433995	1.2317188	1.4993997
##	[247,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-0.8472847
##	[248,]	0.2656958	1.6722230	1.3370617	1.2317188	1.4993997
##	[249,]	0.2656958	-0.4875535	-0.1165791	1.2317188	-0.8472847
##	[250,]	-1.2210230	1.6722230	2.0638820	-0.1052355	-0.0650566
##	[251,]	1.0090552	-1.2074790	-0.8433995	1.2317188	-0.8472847
##	[252,]	-0.4776636	1.6722230	2.0638820	0.5632416	-1.6295129
##	[253,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	-0.0650566
##	[254,]	-1.2210230	0.2323720	-0.8433995	-1.4421898	-1.6295129
##	[255,]	1.0090552	-1.2074790	-0.8433995	-0.7737127	-1.6295129

##	[256,]	-1.2210230	0.9522975	1.3370617	1.2317188	-0.0650566
##	[257,]	0.2656958	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[258,]	-0.4776636	-0.4875535	-0.1165791	-1.4421898	-0.0650566
##	[259,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	1.4993997
##	[260,]	-0.4776636	0.9522975	0.6102413	1.2317188	0.7171715
##	[261,]	0.2656958	0.2323720	0.6102413	-0.1052355	-0.0650566
##	[262,]	1.7524146	-0.4875535	-0.8433995	1.2317188	-1.6295129
##	[263,]	-0.4776636	-0.4875535	-0.1165791	1.2317188	-0.0650566
##	[264,]	0.2656958	0.9522975	-0.8433995	-0.1052355	-0.0650566
##	[265,]	-0.4776636	1.6722230	2.0638820	-0.1052355	-0.8472847
##	[266,]	-1.2210230	-0.4875535	-0.1165791	-0.1052355	-1.6295129
##	[267,]	1.0090552	0.2323720	-0.8433995	1.2317188	1.4993997
##	[268,]	-0.4776636	0.2323720	-0.1165791	1.2317188	-0.8472847
##	[269,]	-1.2210230	1.6722230	2.0638820	-1.4421898	-1.6295129
##	[270,]	-1.2210230	1.6722230	1.3370617	1.2317188	-0.0650566
##	[271,]	-0.4776636	-0.4875535	-0.8433995	0.5632416	0.7171715
##	[272,]	-0.4776636	-0.4875535	-0.8433995	0.5632416	-0.0650566
##	[273,]	-1.2210230	1.6722230	2.0638820	1.2317188	-0.0650566
##	[274,]	1.0090552	0.2323720	-0.1165791	0.5632416	0.7171715
##	[275,]	0.2656958	-1.2074790	-0.8433995	0.5632416	-0.8472847
##	[276,]	0.2656958	-0.4875535	-0.1165791	1.2317188	-0.0650566
##	[277,]	1.0090552	-1.2074790	-0.8433995	0.5632416	-1.6295129
##	[278,]	1.0090552	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[279,]	-0.4776636	1.6722230	2.0638820	1.2317188	1.4993997
##	[280,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[281,]	-0.4776636	0.2323720	-0.8433995	-0.1052355	-1.6295129
##	[282,]	-1.2210230	1.6722230	2.0638820	-0.7737127	0.7171715
##	[283,]	1.7524146	-0.4875535	-0.8433995	-1.4421898	-1.6295129
##	[284,]	1.0090552	0.2323720	-0.1165791	-1.4421898	-0.0650566
##	[285,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	0.7171715
##	[286,]	-0.4776636	1.6722230	1.3370617	1.2317188	-0.8472847
##	[287,]	-0.4776636	-0.4875535	-0.8433995	-0.1052355	-0.0650566
##	[288,]	1.0090552	0.9522975	-0.1165791	0.5632416	0.7171715
##	[289,]	0.2656958	0.2323720	-0.1165791	-1.4421898	-0.0650566
##	[290,]	1.0090552	-0.4875535	-0.1165791	-0.7737127	0.7171715
##	[291,]	-1.2210230	1.6722230	2.0638820	1.2317188	-0.0650566
##	[292,]	1.7524146	0.2323720	-0.8433995	0.5632416	-0.0650566
##	[293,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	0.7171715
##	[294,]	-0.4776636	0.2323720	-0.8433995	1.2317188	-0.8472847
##	[295,]	1.7524146	0.2323720	-0.8433995	-0.1052355	0.7171715
##	[296,]	0.2656958	0.9522975	-0.8433995	-0.1052355	0.7171715
##	[297,]	-0.4776636	-1.2074790	-0.8433995	-0.7737127	0.7171715
##	[298,]	-1.2210230	0.9522975	1.3370617	1.2317188	-1.6295129
##	[299,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.8472847
##	[300,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	-0.8472847
##	[301,]	-0.4776636	0.9522975	-0.1165791	1.2317188	-0.8472847
##	[302,]	-1.2210230	-0.4875535	0.6102413	0.5632416	0.7171715
##	[303,]	1.0090552	-0.4875535	-0.8433995	-0.1052355	-0.8472847
##	[304,]	1.7524146	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[305,]	1.0090552	0.2323720	-0.8433995	1.2317188	-0.8472847

##	[306,]	-0.4776636	-0.4875535	-0.8433995	0.5632416	0.7171715
##	[307,]	0.2656958	0.2323720	-0.8433995	-1.4421898	1.4993997
##	[308,]	-1.2210230	1.6722230	1.3370617	1.2317188	-0.8472847
##	[309,]	0.2656958	1.6722230	-0.1165791	-1.4421898	0.7171715
##	[310,]	-1.2210230	0.2323720	0.6102413	0.5632416	-0.8472847
##	[311,]	-0.4776636	1.6722230	2.0638820	-1.4421898	-0.8472847
##	[312,]	1.7524146	0.9522975	0.6102413	1.2317188	1.4993997
##	[313,]	-1.2210230	-1.2074790	-0.1165791	-1.4421898	-0.0650566
##	[314,]	-1.2210230	0.2323720	-0.1165791	-0.1052355	-0.0650566
##	[315,]	-0.4776636	0.2323720	-0.1165791	-0.1052355	1.4993997
##	[316,]	1.0090552	-1.2074790	-0.8433995	-0.7737127	0.7171715
##	[317,]	-1.2210230	1.6722230	1.3370617	-1.4421898	-0.8472847
##	[318,]	-0.4776636	-0.4875535	-0.1165791	-0.1052355	-0.0650566
##	[319,]	0.2656958	1.6722230	2.0638820	1.2317188	-0.8472847
##	[320,]	1.0090552	-0.4875535	-0.8433995	1.2317188	0.7171715
##	[321,]	-0.4776636	-0.4875535	-0.8433995	-1.4421898	-0.8472847
##	[322,]	-1.2210230	1.6722230	-0.1165791	0.5632416	-0.8472847
##	[323,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	1.4993997
##	[324,]	-0.4776636	1.6722230	2.0638820	-1.4421898	-1.6295129
##	[325,]	1.0090552	0.9522975	-0.1165791	-0.7737127	-0.0650566
##	[326,]	0.2656958	1.6722230	2.0638820	-0.1052355	1.4993997
##	[327,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-0.0650566
##	[328,]	1.7524146	-1.2074790	-0.8433995	1.2317188	0.7171715
##	[329,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	1.4993997
##	[330,]	1.0090552	0.2323720	-0.1165791	-1.4421898	-0.8472847
##	[331,]	-1.2210230	-0.4875535	-0.8433995	-1.4421898	-0.0650566
##	[332,]	-1.2210230	1.6722230	-0.1165791	0.5632416	-0.0650566
##	[333,]	-1.2210230	1.6722230	2.0638820	1.2317188	-0.0650566
##	[334,]	-0.4776636	0.2323720	0.6102413	1.2317188	1.4993997
##	[335,]	0.2656958	-1.2074790	-0.8433995	1.2317188	1.4993997
##	[336,]	1.0090552	0.2323720	0.6102413	-0.7737127	-0.8472847
##	[337,]	-1.2210230	0.2323720	2.0638820	-1.4421898	-0.0650566
##	[338,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[339,]	1.0090552	-0.4875535	-0.8433995	-0.1052355	-1.6295129
##	[340,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	1.4993997
##	[341,]	-1.2210230	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[342,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[343,]	1.0090552	-0.4875535	0.6102413	-0.7737127	0.7171715
##	[344,]	0.2656958	1.6722230	0.6102413	1.2317188	-0.8472847
##	[345,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-0.8472847
##	[346,]	1.7524146	-1.2074790	-0.1165791	0.5632416	0.7171715
##	[347,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	0.7171715
##	[348,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-0.8472847
##	[349,]	-1.2210230	0.9522975	1.3370617	0.5632416	0.7171715
##	[350,]	1.0090552	0.2323720	-0.8433995	-0.7737127	-0.0650566
##	[351,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[352,]	-0.4776636	1.6722230	2.0638820	0.5632416	0.7171715
##	[353,]	-1.2210230	1.6722230	2.0638820	-1.4421898	-0.8472847
##	[354,]	1.0090552	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[355,]	1.0090552	1.6722230	-0.1165791	1.2317188	-0.0650566

## [356,]	1.0090552	-1.2074790	-0.8433995	-0.1052355	-0.0650566
## [357,]	1.0090552	-0.4875535	-0.1165791	-0.7737127	0.7171715
## [358,]	-0.4776636	0.9522975	0.6102413	-1.4421898	-1.6295129
## [359,]	-1.2210230	-1.2074790	-0.1165791	-0.7737127	0.7171715
## [360,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	-1.6295129
## [361,]	1.7524146	0.2323720	-0.8433995	-1.4421898	-1.6295129
## [362,]	0.2656958	-0.4875535	-0.1165791	0.5632416	-1.6295129
## [363,]	-0.4776636	-1.2074790	-0.1165791	1.2317188	-0.0650566
## [364,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	0.7171715
## [365,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	0.7171715
## [366,]	1.0090552	0.9522975	1.3370617	0.5632416	1.4993997
## [367,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.8472847
## [368,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	-0.0650566
## [369,]	1.0090552	0.9522975	-0.1165791	1.2317188	1.4993997
## [370,]	0.2656958	0.9522975	-0.1165791	-0.1052355	-0.0650566
## [371,]	-0.4776636	1.6722230	1.3370617	1.2317188	0.7171715
## [372,]	0.2656958	1.6722230	2.0638820	1.2317188	-0.8472847
## [373,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-0.8472847
## [374,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	1.4993997
## [375,]	-1.2210230	1.6722230	2.0638820	-0.7737127	-0.8472847
## [376,]	-1.2210230	1.6722230	2.0638820	0.5632416	-0.8472847
## [377,]	-1.2210230	1.6722230	0.6102413	-1.4421898	-1.6295129
## [378,]	1.7524146	1.6722230	2.0638820	1.2317188	0.7171715
## [379,]	-1.2210230	-1.2074790	-0.8433995	-0.7737127	-0.8472847
## [380,]	1.0090552	0.2323720	-0.1165791	-0.7737127	-0.0650566
## [381,]	-0.4776636	1.6722230	2.0638820	-0.7737127	-0.8472847
## [382,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	-0.8472847
## [383,]	-1.2210230	1.6722230	-0.8433995	-0.7737127	-0.8472847
## [384,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	0.7171715
## [385,]	-1.2210230	0.9522975	0.6102413	1.2317188	-0.8472847
## [386,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-0.0650566
## [387,]	1.0090552	0.2323720	0.6102413	-0.1052355	-0.0650566
## [388,]	0.2656958	1.6722230	0.6102413	0.5632416	0.7171715
## [389,]	1.7524146	0.2323720	-0.8433995	-0.1052355	-0.8472847
## [390,]	-0.4776636	0.9522975	0.6102413	-0.1052355	0.7171715
## [391,]	1.7524146	0.2323720	1.3370617	0.5632416	-0.0650566
## [392,]	-0.4776636	-0.4875535	-0.8433995	0.5632416	-0.8472847
## [393,]	-0.4776636	-0.4875535	-0.8433995	-1.4421898	-0.8472847
## [394,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	1.4993997
## [395,]	-1.2210230	0.9522975	-0.8433995	-1.4421898	-0.8472847
## [396,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	-0.0650566
## [397,]	-1.2210230	-1.2074790	-0.1165791	-0.7737127	-1.6295129
## [398,]	0.2656958	-1.2074790	-0.8433995	0.5632416	-1.6295129
## [399,]	1.7524146	-0.4875535	-0.1165791	1.2317188	0.7171715
## [400,]	-0.4776636	0.9522975	-0.1165791	1.2317188	-0.0650566
## [401,]	-0.4776636	1.6722230	2.0638820	1.2317188	1.4993997
## [402,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-1.6295129
## [403,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	1.4993997
## [404,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-1.6295129
## [405,]	-1.2210230	1.6722230	-0.8433995	-1.4421898	0.7171715

##	[406,]	1.0090552	0.2323720	-0.1165791	0.5632416	1.4993997
##	[407,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	1.4993997
##	[408,]	1.0090552	0.2323720	-0.1165791	0.5632416	-0.0650566
##	[409,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-0.8472847
##	[410,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	1.4993997
##	[411,]	0.2656958	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[412,]	1.0090552	-0.4875535	-0.8433995	-0.1052355	-0.0650566
##	[413,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.8472847
##	[414,]	-0.4776636	-0.4875535	-0.1165791	-0.7737127	0.7171715
##	[415,]	1.0090552	-0.4875535	-0.8433995	1.2317188	0.7171715
##	[416,]	-0.4776636	1.6722230	2.0638820	1.2317188	-1.6295129
##	[417,]	1.7524146	0.2323720	0.6102413	0.5632416	-0.0650566
##	[418,]	-0.4776636	0.2323720	-0.8433995	-0.7737127	-0.8472847
##	[419,]	1.0090552	-0.4875535	-0.8433995	1.2317188	-0.8472847
##	[420,]	-0.4776636	0.9522975	0.6102413	-0.1052355	-1.6295129
##	[421,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	1.4993997
##	[422,]	1.0090552	0.9522975	-0.1165791	1.2317188	1.4993997
##	[423,]	0.2656958	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[424,]	-0.4776636	1.6722230	1.3370617	0.5632416	-0.8472847
##	[425,]	1.7524146	-1.2074790	-0.8433995	-0.1052355	-0.8472847
##	[426,]	0.2656958	0.2323720	0.6102413	1.2317188	-1.6295129
##	[427,]	-1.2210230	-0.4875535	-0.8433995	-0.7737127	-1.6295129
##	[428,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	-0.8472847
##	[429,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-0.0650566
##	[430,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-0.8472847
##	[431,]	-1.2210230	0.2323720	-0.1165791	1.2317188	1.4993997
##	[432,]	0.2656958	0.2323720	0.6102413	-0.7737127	-0.0650566
##	[433,]	-0.4776636	0.2323720	-0.8433995	0.5632416	-0.0650566
##	[434,]	1.7524146	-1.2074790	-0.8433995	-0.1052355	0.7171715
##	[435,]	-1.2210230	1.6722230	2.0638820	-0.1052355	0.7171715
##	[436,]	-1.2210230	0.9522975	1.3370617	-1.4421898	-1.6295129
##	[437,]	-0.4776636	1.6722230	2.0638820	-0.7737127	-0.0650566
##	[438,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	-0.8472847
##	[439,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-0.8472847
##	[440,]	1.7524146	-1.2074790	-0.8433995	-0.7737127	0.7171715
##	[441,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[442,]	-0.4776636	1.6722230	2.0638820	1.2317188	0.7171715
##	[443,]	-0.4776636	0.2323720	0.6102413	-0.7737127	-0.0650566
##	[444,]	0.2656958	-0.4875535	-0.8433995	1.2317188	0.7171715
##	[445,]	-0.4776636	0.9522975	0.6102413	-0.1052355	-0.0650566
##	[446,]	1.7524146	-1.2074790	-0.8433995	0.5632416	0.7171715
##	[447,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-0.0650566
##	[448,]	1.7524146	1.6722230	1.3370617	1.2317188	1.4993997
##	[449,]	1.7524146	-1.2074790	-0.8433995	0.5632416	-1.6295129
##	[450,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.0650566
##	[451,]	-1.2210230	1.6722230	0.6102413	1.2317188	-0.8472847
##	[452,]	-0.4776636	0.9522975	0.6102413	-1.4421898	-1.6295129
##	[453,]	1.7524146	0.2323720	-0.8433995	0.5632416	1.4993997
##	[454,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.0650566
##	[455,]	1.7524146	-0.4875535	-0.8433995	-0.1052355	0.7171715

##	[456,]	-0.4776636	0.2323720	-0.1165791	-0.7737127	-0.8472847
##	[457,]	1.7524146	0.9522975	1.3370617	-0.7737127	1.4993997
##	[458,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	-0.8472847
##	[459,]	1.7524146	1.6722230	2.0638820	1.2317188	1.4993997
##	[460,]	-1.2210230	0.9522975	-0.1165791	-0.1052355	0.7171715
##	[461,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	1.4993997
##	[462,]	1.0090552	-0.4875535	-0.1165791	-0.1052355	0.7171715
##	[463,]	-0.4776636	0.9522975	0.6102413	-0.1052355	-0.0650566
##	[464,]	-0.4776636	0.9522975	-0.1165791	-0.1052355	-0.8472847
##	[465,]	1.0090552	-0.4875535	-0.8433995	-1.4421898	1.4993997
##	[466,]	0.2656958	0.2323720	-0.8433995	1.2317188	1.4993997
##	[467,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[468,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[469,]	1.7524146	-1.2074790	-0.8433995	-0.7737127	-0.0650566
##	[470,]	0.2656958	-1.2074790	-0.8433995	-0.7737127	0.7171715
##	[471,]	-0.4776636	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[472,]	0.2656958	0.9522975	1.3370617	-0.7737127	-0.0650566
##	[473,]	-0.4776636	0.9522975	-0.1165791	-1.4421898	0.7171715
##	[474,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.0650566
##	[475,]	-1.2210230	1.6722230	2.0638820	-0.1052355	-1.6295129
##	[476,]	-0.4776636	0.2323720	-0.1165791	1.2317188	-0.0650566
##	[477,]	-1.2210230	0.9522975	1.3370617	1.2317188	-0.8472847
##	[478,]	-0.4776636	-0.4875535	2.0638820	0.5632416	-0.8472847
##	[479,]	1.7524146	-0.4875535	-0.1165791	1.2317188	1.4993997
##	[480,]	-1.2210230	0.9522975	1.3370617	-0.1052355	-0.0650566
##	[481,]	-0.4776636	1.6722230	1.3370617	0.5632416	-0.0650566
##	[482,]	-1.2210230	0.2323720	-0.8433995	1.2317188	0.7171715
##	[483,]	1.0090552	0.2323720	-0.1165791	-0.1052355	-0.8472847
##	[484,]	-0.4776636	1.6722230	2.0638820	-0.1052355	-0.0650566
##	[485,]	1.7524146	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[486,]	0.2656958	0.9522975	-0.8433995	-1.4421898	-0.0650566
##	[487,]	1.0090552	-0.4875535	-0.1165791	0.5632416	-0.8472847
##	[488,]	-0.4776636	1.6722230	0.6102413	-1.4421898	-0.8472847
##	[489,]	0.2656958	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[490,]	-0.4776636	0.2323720	-0.8433995	1.2317188	1.4993997
##	[491,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[492,]	-0.4776636	1.6722230	-0.1165791	-0.7737127	-0.0650566
##	[493,]	-1.2210230	1.6722230	-0.1165791	1.2317188	1.4993997
##	[494,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	-0.8472847
##	[495,]	1.0090552	0.2323720	-0.1165791	-0.1052355	-0.0650566
##	[496,]	1.0090552	0.9522975	-0.1165791	0.5632416	-0.0650566
##	[497,]	1.0090552	0.2323720	0.6102413	-0.1052355	0.7171715
##	[498,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	-0.8472847
##	[499,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.0650566
##	[500,]	0.2656958	0.9522975	-0.8433995	-0.1052355	-1.6295129
##	[501,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.0650566
##	[502,]	1.7524146	-0.4875535	-0.1165791	0.5632416	-0.8472847
##	[503,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[504,]	-1.2210230	1.6722230	-0.1165791	-1.4421898	1.4993997
##	[505,]	-1.2210230	-1.2074790	2.0638820	-0.1052355	1.4993997

##	[506,]	0.2656958	-0.4875535	1.3370617	-0.7737127	-0.8472847
##	[507,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	-0.8472847
##	[508,]	-1.2210230	0.9522975	2.0638820	-0.7737127	0.7171715
##	[509,]	1.0090552	-1.2074790	-0.8433995	-0.1052355	0.7171715
##	[510,]	1.0090552	-1.2074790	-0.8433995	0.5632416	1.4993997
##	[511,]	0.2656958	0.2323720	-0.8433995	-0.1052355	-0.0650566
##	[512,]	0.2656958	0.2323720	0.6102413	-0.7737127	-0.0650566
##	[513,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	1.4993997
##	[514,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	-0.8472847
##	[515,]	-1.2210230	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[516,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	-0.8472847
##	[517,]	0.2656958	0.2323720	-0.8433995	-1.4421898	-0.0650566
##	[518,]	1.0090552	1.6722230	2.0638820	0.5632416	1.4993997
##	[519,]	-1.2210230	1.6722230	2.0638820	1.2317188	-0.8472847
##	[520,]	-0.4776636	-1.2074790	-0.1165791	-1.4421898	-0.0650566
##	[521,]	-0.4776636	-0.4875535	-0.1165791	-0.1052355	-0.0650566
##	[522,]	-1.2210230	0.9522975	1.3370617	-0.7737127	-1.6295129
##	[523,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[524,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	1.4993997
##	[525,]	-1.2210230	1.6722230	1.3370617	-0.1052355	0.7171715
##	[526,]	1.0090552	0.2323720	0.6102413	-0.1052355	-0.0650566
##	[527,]	-0.4776636	0.9522975	2.0638820	-0.7737127	0.7171715
##	[528,]	1.0090552	-0.4875535	-0.1165791	-0.1052355	0.7171715
##	[529,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	-0.8472847
##	[530,]	-0.4776636	0.2323720	-0.8433995	-1.4421898	-0.0650566
##	[531,]	1.0090552	0.2323720	0.6102413	-0.7737127	0.7171715
##	[532,]	1.7524146	-0.4875535	-0.1165791	-1.4421898	1.4993997
##	[533,]	0.2656958	-1.2074790	-0.8433995	0.5632416	0.7171715
##	[534,]	0.2656958	0.2323720	-0.1165791	0.5632416	-0.0650566
##	[535,]	0.2656958	-1.2074790	-0.8433995	0.5632416	-0.8472847
##	[536,]	1.7524146	0.2323720	-0.1165791	-1.4421898	-0.0650566
##	[537,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.8472847
##	[538,]	0.2656958	-0.4875535	-0.1165791	-1.4421898	1.4993997
##	[539,]	-0.4776636	1.6722230	2.0638820	-0.7737127	0.7171715
##	[540,]	-0.4776636	0.9522975	1.3370617	-0.7737127	0.7171715
##	[541,]	-1.2210230	1.6722230	0.6102413	0.5632416	-1.6295129
##	[542,]	-0.4776636	1.6722230	2.0638820	-0.1052355	-1.6295129
##	[543,]	1.0090552	-1.2074790	-0.8433995	-0.7737127	-0.0650566
##	[544,]	1.7524146	0.2323720	0.6102413	-1.4421898	-1.6295129
##	[545,]	-1.2210230	1.6722230	2.0638820	-0.1052355	-0.0650566
##	[546,]	-0.4776636	-0.4875535	-0.8433995	-1.4421898	-1.6295129
##	[547,]	0.2656958	-0.4875535	-0.1165791	-0.7737127	0.7171715
##	[548,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	1.4993997
##	[549,]	-1.2210230	0.9522975	-0.8433995	-1.4421898	-1.6295129
##	[550,]	1.7524146	-0.4875535	-0.8433995	-1.4421898	-0.0650566
##	[551,]	-0.4776636	0.2323720	-0.8433995	1.2317188	-0.8472847
##	[552,]	-0.4776636	0.2323720	-0.1165791	-0.1052355	-0.8472847
##	[553,]	-0.4776636	0.9522975	-0.8433995	1.2317188	-0.8472847
##	[554,]	0.2656958	-0.4875535	-0.1165791	-1.4421898	-0.8472847
##	[555,]	1.0090552	0.2323720	-0.1165791	-0.7737127	-0.0650566

##	[556,]	1.0090552	-1.2074790	-0.8433995	-0.1052355	0.7171715
##	[557,]	1.0090552	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[558,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[559,]	-0.4776636	0.2323720	-0.1165791	0.5632416	-0.8472847
##	[560,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	1.4993997
##	[561,]	1.7524146	1.6722230	2.0638820	0.5632416	-0.8472847
##	[562,]	-0.4776636	0.2323720	-0.8433995	-0.1052355	1.4993997
##	[563,]	0.2656958	-0.4875535	-0.1165791	-1.4421898	0.7171715
##	[564,]	0.2656958	0.2323720	0.6102413	-1.4421898	0.7171715
##	[565,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[566,]	-0.4776636	0.2323720	0.6102413	1.2317188	-1.6295129
##	[567,]	0.2656958	-1.2074790	-0.8433995	1.2317188	-1.6295129
##	[568,]	-0.4776636	0.9522975	-0.1165791	-1.4421898	-1.6295129
##	[569,]	0.2656958	-0.4875535	-0.8433995	-0.7737127	1.4993997
##	[570,]	-0.4776636	0.2323720	-0.1165791	-0.7737127	-0.0650566
##	[571,]	-0.4776636	-0.4875535	-0.8433995	-1.4421898	0.7171715
##	[572,]	0.2656958	0.9522975	0.6102413	0.5632416	1.4993997
##	[573,]	-1.2210230	1.6722230	1.3370617	-0.7737127	-0.0650566
##	[574,]	-1.2210230	-1.2074790	0.6102413	-1.4421898	1.4993997
##	[575,]	0.2656958	1.6722230	2.0638820	-1.4421898	-0.0650566
##	[576,]	-1.2210230	0.9522975	1.3370617	1.2317188	-0.0650566
##	[577,]	0.2656958	0.2323720	-0.1165791	-1.4421898	0.7171715
##	[578,]	-0.4776636	-0.4875535	-0.1165791	-0.1052355	-0.8472847
##	[579,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.8472847
##	[580,]	-1.2210230	-0.4875535	-0.1165791	-0.7737127	-0.8472847
##	[581,]	1.7524146	-0.4875535	-0.8433995	-1.4421898	-1.6295129
##	[582,]	0.2656958	-0.4875535	-0.1165791	-0.7737127	-0.8472847
##	[583,]	0.2656958	-0.4875535	-0.1165791	0.5632416	1.4993997
##	[584,]	1.0090552	-1.2074790	-0.8433995	-0.1052355	-0.8472847
##	[585,]	0.2656958	0.2323720	-0.8433995	-1.4421898	-0.8472847
##	[586,]	1.0090552	-0.4875535	-0.8433995	-1.4421898	-1.6295129
##	[587,]	-1.2210230	-1.2074790	0.6102413	1.2317188	1.4993997
##	[588,]	-1.2210230	-0.4875535	0.6102413	-1.4421898	-0.8472847
##	[589,]	0.2656958	-0.4875535	-0.8433995	0.5632416	1.4993997
##	[590,]	1.7524146	0.2323720	-0.8433995	0.5632416	-0.0650566
##	[591,]	1.0090552	0.9522975	1.3370617	0.5632416	-0.8472847
##	[592,]	1.7524146	-0.4875535	-0.1165791	-0.1052355	1.4993997
##	[593,]	1.7524146	0.2323720	-0.8433995	-1.4421898	-0.0650566
##	[594,]	-1.2210230	1.6722230	2.0638820	0.5632416	-0.0650566
##	[595,]	-1.2210230	-0.4875535	-0.1165791	1.2317188	-0.0650566
##	[596,]	-1.2210230	0.2323720	-0.8433995	0.5632416	-0.0650566
##	[597,]	-0.4776636	-0.4875535	-0.1165791	-1.4421898	1.4993997
##	[598,]	-0.4776636	-0.4875535	-0.1165791	-0.7737127	-0.8472847
##	[599,]	0.2656958	0.2323720	-0.8433995	-1.4421898	-0.8472847
##	[600,]	1.7524146	-0.4875535	-0.1165791	-1.4421898	-0.0650566
##	[601,]	-0.4776636	0.9522975	-0.1165791	1.2317188	-0.0650566
##	[602,]	-1.2210230	0.2323720	-0.1165791	-0.1052355	-0.0650566
##	[603,]	1.0090552	-0.4875535	-0.1165791	-1.4421898	-0.0650566
##	[604,]	1.7524146	-0.4875535	-0.8433995	-1.4421898	0.7171715
##	[605,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-1.6295129

##	[606,]	-1.2210230	0.2323720	-0.8433995	-1.4421898	1.4993997
##	[607,]	-1.2210230	-0.4875535	-0.8433995	-0.7737127	-0.0650566
##	[608,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.8472847
##	[609,]	1.0090552	-0.4875535	1.3370617	-0.7737127	0.7171715
##	[610,]	1.0090552	-1.2074790	-0.8433995	0.5632416	-0.8472847
##	[611,]	-0.4776636	1.6722230	2.0638820	-0.7737127	-1.6295129
##	[612,]	1.7524146	1.6722230	-0.8433995	-0.7737127	-1.6295129
##	[613,]	0.2656958	-0.4875535	-0.1165791	-0.7737127	-0.8472847
##	[614,]	-0.4776636	-0.4875535	-0.8433995	0.5632416	-0.8472847
##	[615,]	-1.2210230	0.2323720	-0.8433995	0.5632416	-0.0650566
##	[616,]	-1.2210230	-0.4875535	-0.1165791	-0.1052355	-0.0650566
##	[617,]	-1.2210230	1.6722230	2.0638820	-1.4421898	0.7171715
##	[618,]	1.7524146	-1.2074790	-0.8433995	1.2317188	-0.0650566
##	[619,]	1.0090552	-0.4875535	-0.1165791	1.2317188	1.4993997
##	[620,]	-0.4776636	0.2323720	-0.1165791	-1.4421898	1.4993997
##	[621,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	1.4993997
##	[622,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-1.6295129
##	[623,]	1.0090552	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[624,]	0.2656958	-0.4875535	-0.1165791	-1.4421898	-0.8472847
##	[625,]	1.0090552	0.9522975	-0.1165791	-0.7737127	-1.6295129
##	[626,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	0.7171715
##	[627,]	1.0090552	0.9522975	-0.1165791	-0.1052355	-0.0650566
##	[628,]	0.2656958	0.9522975	1.3370617	-0.7737127	-0.0650566
##	[629,]	0.2656958	0.2323720	0.6102413	-1.4421898	-0.8472847
##	[630,]	0.2656958	-0.4875535	-0.8433995	-0.7737127	1.4993997
##	[631,]	1.0090552	0.2323720	-0.8433995	-1.4421898	0.7171715
##	[632,]	0.2656958	-0.4875535	-0.1165791	1.2317188	-0.0650566
##	[633,]	-0.4776636	0.2323720	0.6102413	-0.7737127	-0.0650566
##	[634,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	1.4993997
##	[635,]	-1.2210230	0.2323720	-0.1165791	0.5632416	-0.0650566
##	[636,]	-1.2210230	0.9522975	1.3370617	0.5632416	1.4993997
##	[637,]	1.0090552	1.6722230	-0.1165791	-1.4421898	0.7171715
##	[638,]	0.2656958	0.2323720	1.3370617	-0.7737127	-0.8472847
##	[639,]	-0.4776636	1.6722230	0.6102413	-0.1052355	0.7171715
##	[640,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	-0.8472847
##	[641,]	1.7524146	0.9522975	-0.8433995	0.5632416	1.4993997
##	[642,]	-1.2210230	-0.4875535	-0.1165791	-1.4421898	-1.6295129
##	[643,]	-1.2210230	1.6722230	2.0638820	1.2317188	-0.0650566
##	[644,]	0.2656958	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[645,]	0.2656958	0.9522975	-0.1165791	0.5632416	0.7171715
##	[646,]	-0.4776636	0.9522975	-0.1165791	0.5632416	1.4993997
##	[647,]	0.2656958	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[648,]	-1.2210230	1.6722230	-0.8433995	1.2317188	-0.0650566
##	[649,]	-0.4776636	0.9522975	1.3370617	1.2317188	-1.6295129
##	[650,]	0.2656958	0.2323720	1.3370617	-0.1052355	0.7171715
##	[651,]	-1.2210230	-0.4875535	-0.8433995	-1.4421898	-0.8472847
##	[652,]	1.7524146	-1.2074790	-0.8433995	-0.7737127	1.4993997
##	[653,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-0.0650566
##	[654,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	0.7171715
##	[655,]	1.0090552	0.2323720	-0.1165791	-1.4421898	1.4993997

##	[656,]	0.2656958	0.2323720	0.6102413	0.5632416	-0.0650566
##	[657,]	1.0090552	1.6722230	2.0638820	1.2317188	1.4993997
##	[658,]	0.2656958	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[659,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[660,]	1.7524146	-0.4875535	-0.1165791	-0.7737127	-1.6295129
##	[661,]	-0.4776636	-0.4875535	-0.8433995	0.5632416	0.7171715
##	[662,]	0.2656958	-0.4875535	-0.8433995	0.5632416	-0.0650566
##	[663,]	1.0090552	-0.4875535	-0.8433995	-0.1052355	-1.6295129
##	[664,]	-1.2210230	-0.4875535	-0.1165791	0.5632416	0.7171715
##	[665,]	0.2656958	0.9522975	-0.1165791	0.5632416	1.4993997
##	[666,]	-1.2210230	-0.4875535	-0.8433995	-0.1052355	-0.0650566
##	[667,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[668,]	-0.4776636	-0.4875535	-0.8433995	-0.7737127	-0.8472847
##	[669,]	-1.2210230	1.6722230	0.6102413	0.5632416	-0.0650566
##	[670,]	-0.4776636	0.9522975	-0.1165791	-0.7737127	0.7171715
##	[671,]	0.2656958	-0.4875535	-0.1165791	0.5632416	-0.0650566
##	[672,]	0.2656958	0.2323720	0.6102413	-0.7737127	-0.0650566
##	[673,]	-0.4776636	-0.4875535	-0.1165791	-0.1052355	-1.6295129
##	[674,]	-1.2210230	-0.4875535	-0.1165791	1.2317188	-0.8472847
##	[675,]	1.7524146	-0.4875535	-0.1165791	-0.1052355	-0.0650566
##	[676,]	-0.4776636	-0.4875535	-0.1165791	1.2317188	-0.8472847
##	[677,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.0650566
##	[678,]	-0.4776636	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[679,]	-1.2210230	0.2323720	-0.1165791	0.5632416	0.7171715
##	[680,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	1.4993997
##	[681,]	0.2656958	1.6722230	1.3370617	1.2317188	1.4993997
##	[682,]	0.2656958	1.6722230	0.6102413	1.2317188	1.4993997
##	[683,]	-0.4776636	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[684,]	-0.4776636	1.6722230	0.6102413	1.2317188	1.4993997
##	[685,]	0.2656958	0.9522975	-0.8433995	-0.7737127	-0.0650566
##	[686,]	-0.4776636	0.2323720	-0.1165791	0.5632416	-0.0650566
##	[687,]	0.2656958	0.2323720	0.6102413	-0.1052355	-0.0650566
##	[688,]	0.2656958	-1.2074790	-0.1165791	-0.1052355	0.7171715
##	[689,]	-1.2210230	1.6722230	0.6102413	1.2317188	-0.0650566
##	[690,]	1.7524146	-0.4875535	2.0638820	-0.1052355	0.7171715
##	[691,]	1.0090552	0.2323720	-0.1165791	1.2317188	1.4993997
##	[692,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[693,]	0.2656958	0.2323720	-0.8433995	1.2317188	1.4993997
##	[694,]	1.0090552	-0.4875535	-0.8433995	-1.4421898	-1.6295129
##	[695,]	0.2656958	-0.4875535	-0.1165791	-0.7737127	0.7171715
##	[696,]	0.2656958	-0.4875535	-0.8433995	0.5632416	-1.6295129
##	[697,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	0.7171715
##	[698,]	1.7524146	-0.4875535	-0.8433995	1.2317188	0.7171715
##	[699,]	-0.4776636	0.9522975	0.6102413	-0.7737127	-0.8472847
##	[700,]	-1.2210230	-0.4875535	-0.8433995	-1.4421898	1.4993997
##	[701,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	-1.6295129
##	[702,]	-1.2210230	0.9522975	0.6102413	-0.1052355	0.7171715
##	[703,]	0.2656958	-0.4875535	-0.1165791	-0.1052355	1.4993997
##	[704,]	0.2656958	0.2323720	0.6102413	-0.7737127	1.4993997
##	[705,]	-0.4776636	0.2323720	-0.8433995	-1.4421898	1.4993997

##	[706,]	-0.4776636	0.2323720	-0.8433995	-0.7737127	0.7171715
##	[707,]	1.7524146	-1.2074790	-0.8433995	-0.1052355	-0.0650566
##	[708,]	-0.4776636	1.6722230	1.3370617	1.2317188	0.7171715
##	[709,]	0.2656958	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[710,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-0.0650566
##	[711,]	0.2656958	0.2323720	1.3370617	0.5632416	-1.6295129
##	[712,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-1.6295129
##	[713,]	-1.2210230	0.2323720	-0.8433995	-0.7737127	-0.0650566
##	[714,]	-1.2210230	0.9522975	-0.8433995	1.2317188	-0.0650566
##	[715,]	1.0090552	0.2323720	0.6102413	1.2317188	-0.0650566
##	[716,]	0.2656958	0.9522975	0.6102413	-0.1052355	-0.0650566
##	[717,]	1.0090552	0.9522975	1.3370617	-0.1052355	0.7171715
##	[718,]	-1.2210230	0.9522975	0.6102413	-0.1052355	-0.0650566
##	[719,]	-1.2210230	1.6722230	2.0638820	-0.1052355	0.7171715
##	[720,]	0.2656958	-0.4875535	-0.8433995	-0.7737127	-0.8472847
##	[721,]	-1.2210230	1.6722230	0.6102413	1.2317188	1.4993997
##	[722,]	0.2656958	1.6722230	2.0638820	-1.4421898	1.4993997
##	[723,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	0.7171715
##	[724,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-0.8472847
##	[725,]	-1.2210230	-0.4875535	-0.8433995	-1.4421898	-1.6295129
##	[726,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	1.4993997
##	[727,]	-0.4776636	-0.4875535	-0.8433995	-0.1052355	-0.8472847
##	[728,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.8472847
##	[729,]	1.7524146	-1.2074790	-0.8433995	0.5632416	-1.6295129
##	[730,]	0.2656958	1.6722230	2.0638820	-0.1052355	-0.0650566
##	[731,]	-0.4776636	0.9522975	0.6102413	1.2317188	1.4993997
##	[732,]	1.7524146	-0.4875535	-0.8433995	1.2317188	0.7171715
##	[733,]	0.2656958	-0.4875535	-0.1165791	1.2317188	1.4993997
##	[734,]	1.7524146	-0.4875535	-0.1165791	1.2317188	1.4993997
##	[735,]	-1.2210230	-1.2074790	-0.1165791	1.2317188	-1.6295129
##	[736,]	-0.4776636	-0.4875535	-0.1165791	1.2317188	-0.8472847
##	[737,]	0.2656958	0.9522975	-0.1165791	0.5632416	-0.0650566
##	[738,]	-0.4776636	0.2323720	-0.1165791	1.2317188	-0.0650566
##	[739,]	0.2656958	-1.2074790	-0.1165791	-1.4421898	-0.0650566
##	[740,]	1.7524146	0.2323720	-0.1165791	-1.4421898	1.4993997
##	[741,]	1.7524146	0.2323720	-0.8433995	-0.1052355	1.4993997
##	[742,]	1.7524146	1.6722230	2.0638820	1.2317188	-0.8472847
##	[743,]	1.7524146	0.9522975	-0.8433995	1.2317188	0.7171715
##	[744,]	1.0090552	-0.4875535	-0.1165791	-0.7737127	-1.6295129
##	[745,]	-1.2210230	1.6722230	2.0638820	1.2317188	-1.6295129
##	[746,]	0.2656958	-0.4875535	-0.1165791	-1.4421898	-0.0650566
##	[747,]	0.2656958	-0.4875535	-0.1165791	-1.4421898	0.7171715
##	[748,]	-1.2210230	1.6722230	-0.1165791	1.2317188	1.4993997
##	[749,]	-1.2210230	0.2323720	0.6102413	-0.7737127	0.7171715
##	[750,]	-1.2210230	0.2323720	-0.1165791	-1.4421898	0.7171715
##	[751,]	-0.4776636	0.2323720	-0.1165791	-0.7737127	-0.8472847
##	[752,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.0650566
##	[753,]	1.0090552	1.6722230	1.3370617	-1.4421898	-1.6295129
##	[754,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	-0.0650566
##	[755,]	0.2656958	0.2323720	-0.1165791	0.5632416	0.7171715

##	[756,]	0.2656958	0.9522975	1.3370617	1.2317188	0.7171715
##	[757,]	0.2656958	0.2323720	0.6102413	1.2317188	0.7171715
##	[758,]	-0.4776636	1.6722230	2.0638820	-0.1052355	-0.0650566
##	[759,]	0.2656958	-0.4875535	0.6102413	-1.4421898	-0.0650566
##	[760,]	-1.2210230	1.6722230	2.0638820	1.2317188	0.7171715
##	[761,]	1.7524146	-0.4875535	-0.8433995	1.2317188	0.7171715
##	[762,]	-1.2210230	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[763,]	1.0090552	-0.4875535	-0.1165791	0.5632416	1.4993997
##	[764,]	-1.2210230	0.2323720	-0.8433995	1.2317188	-0.8472847
##	[765,]	-0.4776636	1.6722230	2.0638820	1.2317188	-0.0650566
##	[766,]	-1.2210230	0.2323720	0.6102413	-0.7737127	-0.0650566
##	[767,]	-0.4776636	1.6722230	2.0638820	-1.4421898	-0.0650566
##	[768,]	-1.2210230	0.9522975	1.3370617	0.5632416	0.7171715
##	[769,]	1.7524146	-0.4875535	-0.1165791	-1.4421898	-0.0650566
##	[770,]	1.0090552	0.9522975	1.3370617	0.5632416	0.7171715
##	[771,]	-0.4776636	-1.2074790	-0.1165791	-0.1052355	0.7171715
##	[772,]	1.0090552	-0.4875535	-0.1165791	-0.7737127	-0.0650566
##	[773,]	-1.2210230	0.2323720	-0.8433995	-0.1052355	0.7171715
##	[774,]	0.2656958	0.2323720	0.6102413	-0.1052355	-0.0650566
##	[775,]	0.2656958	-0.4875535	-0.1165791	1.2317188	0.7171715
##	[776,]	1.0090552	0.2323720	-0.8433995	0.5632416	1.4993997
##	[777,]	1.7524146	-0.4875535	-0.8433995	-1.4421898	-0.0650566
##	[778,]	0.2656958	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[779,]	-0.4776636	-1.2074790	-0.8433995	-0.1052355	-1.6295129
##	[780,]	0.2656958	0.2323720	-0.1165791	1.2317188	-0.8472847
##	[781,]	1.7524146	-0.4875535	2.0638820	-0.1052355	0.7171715
##	[782,]	-1.2210230	1.6722230	0.6102413	1.2317188	-1.6295129
##	[783,]	0.2656958	1.6722230	1.3370617	1.2317188	-0.0650566
##	[784,]	0.2656958	0.9522975	-0.1165791	0.5632416	0.7171715
##	[785,]	-0.4776636	1.6722230	2.0638820	-0.7737127	-0.0650566
##	[786,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	0.7171715
##	[787,]	-0.4776636	1.6722230	2.0638820	0.5632416	-0.8472847
##	[788,]	-0.4776636	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[789,]	1.0090552	0.2323720	-0.1165791	-0.1052355	-0.8472847
##	[790,]	0.2656958	0.9522975	-0.1165791	0.5632416	-0.0650566
##	[791,]	-1.2210230	1.6722230	2.0638820	-0.7737127	-1.6295129
##	[792,]	-0.4776636	0.2323720	-0.8433995	0.5632416	-0.0650566
##	[793,]	0.2656958	0.2323720	-0.8433995	-1.4421898	-0.8472847
##	[794,]	0.2656958	1.6722230	-0.8433995	1.2317188	-0.0650566
##	[795,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[796,]	1.0090552	0.9522975	1.3370617	0.5632416	0.7171715
##	[797,]	1.0090552	-0.4875535	-0.8433995	-1.4421898	-0.0650566
##	[798,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[799,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	1.4993997
##	[800,]	-0.4776636	0.2323720	-0.1165791	1.2317188	-0.0650566
##	[801,]	-1.2210230	1.6722230	2.0638820	-0.1052355	0.7171715
##	[802,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.0650566
##	[803,]	-1.2210230	0.9522975	-0.8433995	-0.1052355	1.4993997
##	[804,]	-0.4776636	-0.4875535	-0.8433995	-0.7737127	-0.8472847
##	[805,]	0.2656958	-1.2074790	-0.8433995	1.2317188	-0.0650566

## [806,]	0.2656958	0.9522975	1.3370617	1.2317188	1.4993997
## [807,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.0650566
## [808,]	1.7524146	-1.2074790	-0.8433995	-0.7737127	0.7171715
## [809,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	0.7171715
## [810,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.0650566
## [811,]	0.2656958	0.2323720	-0.8433995	1.2317188	-0.0650566
## [812,]	-0.4776636	0.9522975	-0.1165791	1.2317188	0.7171715
## [813,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	1.4993997
## [814,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-0.0650566
## [815,]	1.0090552	0.2323720	-0.1165791	1.2317188	-0.8472847
## [816,]	0.2656958	1.6722230	2.0638820	-0.1052355	-0.8472847
## [817,]	1.0090552	0.2323720	-0.1165791	-0.7737127	0.7171715
## [818,]	-1.2210230	0.9522975	-0.8433995	-1.4421898	1.4993997
## [819,]	1.7524146	0.2323720	-0.8433995	-1.4421898	1.4993997
## [820,]	-0.4776636	1.6722230	2.0638820	-0.7737127	0.7171715
## [821,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	0.7171715
## [822,]	-1.2210230	0.9522975	0.6102413	-0.7737127	-1.6295129
## [823,]	1.7524146	-1.2074790	-0.8433995	1.2317188	-0.8472847
## [824,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-0.0650566
## [825,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.0650566
## [826,]	-1.2210230	-0.4875535	-0.8433995	-0.1052355	-0.8472847
## [827,]	-1.2210230	0.9522975	-0.8433995	0.5632416	0.7171715
## [828,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-0.0650566
## [829,]	0.2656958	-0.4875535	-0.1165791	-0.1052355	-0.8472847
## [830,]	1.7524146	0.2323720	-0.8433995	1.2317188	0.7171715
## [831,]	-1.2210230	1.6722230	2.0638820	1.2317188	0.7171715
## [832,]	1.0090552	0.2323720	0.6102413	-0.1052355	-0.0650566
## [833,]	-1.2210230	0.9522975	0.6102413	1.2317188	1.4993997
## [834,]	1.7524146	-0.4875535	-0.1165791	1.2317188	-0.8472847
## [835,]	1.0090552	0.9522975	-0.1165791	-0.1052355	-0.0650566
## [836,]	-0.4776636	-1.2074790	-0.8433995	-0.7737127	0.7171715
## [837,]	0.2656958	0.2323720	0.6102413	0.5632416	0.7171715
## [838,]	-1.2210230	1.6722230	2.0638820	1.2317188	1.4993997
## [839,]	1.0090552	0.2323720	-0.8433995	-0.7737127	-0.0650566
## [840,]	1.0090552	-0.4875535	-0.8433995	-0.7737127	-0.8472847
## [841,]	-0.4776636	-0.4875535	-0.1165791	-0.1052355	-0.0650566
## [842,]	-0.4776636	-0.4875535	-0.1165791	-0.1052355	-0.8472847
## [843,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-0.8472847
## [844,]	1.7524146	-1.2074790	-0.8433995	1.2317188	1.4993997
## [845,]	1.7524146	-0.4875535	-0.8433995	1.2317188	-1.6295129
## [846,]	-0.4776636	-1.2074790	0.6102413	1.2317188	0.7171715
## [847,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	-0.8472847
## [848,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	-0.8472847
## [849,]	1.7524146	-0.4875535	-0.1165791	-1.4421898	-0.8472847
## [850,]	-0.4776636	-0.4875535	-0.8433995	0.5632416	-0.0650566
## [851,]	-1.2210230	1.6722230	1.3370617	1.2317188	0.7171715
## [852,]	1.7524146	0.2323720	-0.8433995	-1.4421898	1.4993997
## [853,]	1.7524146	0.2323720	-0.1165791	-1.4421898	1.4993997
## [854,]	0.2656958	0.2323720	0.6102413	0.5632416	0.7171715
## [855,]	0.2656958	-0.4875535	-0.8433995	-0.1052355	-0.8472847

## [856,]	1.0090552	0.9522975	-0.1165791	-0.7737127	-0.0650566
## [857,]	1.0090552	-0.4875535	1.3370617	-0.1052355	0.7171715
## [858,]	1.0090552	-1.2074790	-0.8433995	0.5632416	-0.8472847
## [859,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-0.0650566
## [860,]	1.7524146	-0.4875535	-0.8433995	-0.7737127	1.4993997
## [861,]	1.7524146	0.2323720	-0.8433995	-0.1052355	-0.0650566
## [862,]	-0.4776636	-0.4875535	-0.1165791	0.5632416	-0.8472847
## [863,]	1.7524146	-0.4875535	-0.8433995	-0.7737127	0.7171715
## [864,]	0.2656958	-1.2074790	-0.8433995	0.5632416	-1.6295129
## [865,]	-0.4776636	-1.2074790	-0.8433995	0.5632416	-0.0650566
## [866,]	0.2656958	-0.4875535	-0.8433995	-0.7737127	-0.0650566
## [867,]	-0.4776636	0.9522975	1.3370617	1.2317188	0.7171715
## [868,]	0.2656958	0.9522975	-0.1165791	-0.1052355	0.7171715
## [869,]	-0.4776636	-1.2074790	-0.1165791	0.5632416	1.4993997
## [870,]	-1.2210230	0.9522975	-0.1165791	0.5632416	0.7171715
## [871,]	-1.2210230	-0.4875535	-0.1165791	0.5632416	-0.0650566
## [872,]	1.0090552	0.2323720	2.0638820	-0.1052355	1.4993997
## [873,]	-1.2210230	1.6722230	2.0638820	-0.7737127	-1.6295129
## [874,]	-0.4776636	-0.4875535	-0.8433995	-0.7737127	-0.0650566
## [875,]	1.0090552	0.2323720	-0.1165791	-1.4421898	-0.8472847
## [876,]	-1.2210230	-0.4875535	-0.8433995	-1.4421898	-0.8472847
## [877,]	-1.2210230	1.6722230	2.0638820	-1.4421898	-0.8472847
## [878,]	1.0090552	-0.4875535	-0.8433995	1.2317188	1.4993997
## [879,]	-0.4776636	0.9522975	1.3370617	-0.1052355	0.7171715
## [880,]	1.7524146	-0.4875535	-0.1165791	0.5632416	-0.0650566
## [881,]	1.0090552	-0.4875535	-0.1165791	-1.4421898	-0.8472847
## [882,]	-1.2210230	0.9522975	-0.8433995	1.2317188	0.7171715
## [883,]	-1.2210230	1.6722230	2.0638820	0.5632416	-0.0650566
## [884,]	-0.4776636	-0.4875535	-0.8433995	1.2317188	-0.8472847
## [885,]	1.7524146	-1.2074790	-0.8433995	1.2317188	-0.0650566
## [886,]	1.0090552	0.9522975	0.6102413	0.5632416	-0.8472847
## [887,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	0.7171715
## [888,]	1.0090552	0.2323720	-0.1165791	-0.1052355	0.7171715
## [889,]	0.2656958	1.6722230	2.0638820	1.2317188	-0.0650566
## [890,]	0.2656958	0.2323720	-0.8433995	1.2317188	1.4993997
## [891,]	-0.4776636	-0.4875535	-0.8433995	-1.4421898	1.4993997
## [892,]	0.2656958	0.2323720	-0.1165791	-0.7737127	-0.0650566
## [893,]	0.2656958	-1.2074790	-0.1165791	-1.4421898	-0.0650566
## [894,]	1.0090552	-0.4875535	0.6102413	-0.7737127	-0.8472847
## [895,]	-0.4776636	-0.4875535	-0.1165791	-0.7737127	1.4993997
## [896,]	-1.2210230	-0.4875535	-0.1165791	-1.4421898	0.7171715
## [897,]	-0.4776636	-1.2074790	-0.8433995	1.2317188	0.7171715
## [898,]	-0.4776636	-1.2074790	-0.8433995	-0.7737127	-0.8472847
## [899,]	0.2656958	0.9522975	-0.8433995	0.5632416	-0.0650566
## [900,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	0.7171715
## [901,]	0.2656958	-1.2074790	-0.8433995	0.5632416	-0.8472847
## [902,]	-1.2210230	-1.2074790	-0.8433995	-0.7737127	-0.0650566
## [903,]	-0.4776636	-0.4875535	-0.1165791	0.5632416	-0.0650566
## [904,]	-1.2210230	0.2323720	2.0638820	-0.1052355	1.4993997
## [905,]	1.7524146	-0.4875535	-0.1165791	-0.7737127	0.7171715

##	[906,]	1.0090552	-1.2074790	-0.8433995	-0.1052355	0.7171715
##	[907,]	1.7524146	-1.2074790	-0.8433995	-1.4421898	-0.0650566
##	[908,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	-1.6295129
##	[909,]	-0.4776636	-0.4875535	0.6102413	0.5632416	-0.0650566
##	[910,]	0.2656958	-0.4875535	-0.8433995	-0.7737127	-0.8472847
##	[911,]	1.7524146	-0.4875535	-0.8433995	1.2317188	-0.0650566
##	[912,]	1.0090552	-0.4875535	2.0638820	1.2317188	-0.0650566
##	[913,]	-0.4776636	0.2323720	0.6102413	0.5632416	-0.8472847
##	[914,]	-0.4776636	0.2323720	-0.1165791	1.2317188	-0.0650566
##	[915,]	-0.4776636	-0.4875535	0.6102413	1.2317188	1.4993997
##	[916,]	1.0090552	-0.4875535	-0.1165791	0.5632416	-0.0650566
##	[917,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-0.0650566
##	[918,]	1.0090552	-0.4875535	-0.1165791	-1.4421898	-0.0650566
##	[919,]	-0.4776636	0.2323720	0.6102413	0.5632416	-0.0650566
##	[920,]	-0.4776636	-1.2074790	2.0638820	1.2317188	-0.8472847
##	[921,]	-1.2210230	-0.4875535	-0.1165791	0.5632416	-1.6295129
##	[922,]	-1.2210230	-0.4875535	-0.8433995	-0.7737127	-0.0650566
##	[923,]	1.7524146	1.6722230	-0.1165791	-0.7737127	1.4993997
##	[924,]	-1.2210230	0.9522975	-0.1165791	1.2317188	-0.8472847
##	[925,]	-0.4776636	0.9522975	-0.1165791	-1.4421898	-0.0650566
##	[926,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	-1.6295129
##	[927,]	0.2656958	-1.2074790	-0.8433995	-0.7737127	-0.8472847
##	[928,]	-1.2210230	1.6722230	-0.1165791	-1.4421898	1.4993997
##	[929,]	-1.2210230	1.6722230	2.0638820	0.5632416	-0.8472847
##	[930,]	0.2656958	-0.4875535	0.6102413	1.2317188	1.4993997
##	[931,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	-0.0650566
##	[932,]	-0.4776636	-0.4875535	-0.1165791	-0.7737127	-0.0650566
##	[933,]	-0.4776636	0.9522975	2.0638820	-0.7737127	-1.6295129
##	[934,]	1.0090552	-0.4875535	-0.1165791	0.5632416	0.7171715
##	[935,]	0.2656958	-0.4875535	-0.1165791	0.5632416	-0.8472847
##	[936,]	-1.2210230	-1.2074790	-0.8433995	1.2317188	-1.6295129
##	[937,]	-0.4776636	-1.2074790	0.6102413	-1.4421898	-0.8472847
##	[938,]	-0.4776636	0.9522975	-0.1165791	1.2317188	1.4993997
##	[939,]	-0.4776636	0.9522975	0.6102413	1.2317188	1.4993997
##	[940,]	1.7524146	1.6722230	-0.1165791	-1.4421898	1.4993997
##	[941,]	-1.2210230	-0.4875535	-0.8433995	-0.7737127	-1.6295129
##	[942,]	-0.4776636	-0.4875535	-0.8433995	1.2317188	-0.8472847
##	[943,]	-1.2210230	-1.2074790	-0.1165791	-0.1052355	1.4993997
##	[944,]	-0.4776636	0.2323720	-0.8433995	0.5632416	-0.0650566
##	[945,]	-0.4776636	0.2323720	-0.8433995	-0.1052355	1.4993997
##	[946,]	1.0090552	-1.2074790	-0.8433995	-1.4421898	-1.6295129
##	[947,]	0.2656958	-0.4875535	-0.1165791	-0.1052355	-0.8472847
##	[948,]	-0.4776636	-0.4875535	-0.1165791	-0.7737127	-0.8472847
##	[949,]	-1.2210230	1.6722230	2.0638820	0.5632416	-0.0650566
##	[950,]	-1.2210230	-1.2074790	-0.1165791	-1.4421898	-1.6295129
##	[951,]	1.0090552	-0.4875535	0.6102413	-0.7737127	-0.8472847
##	[952,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	-0.0650566
##	[953,]	0.2656958	0.2323720	-0.1165791	-0.7737127	-1.6295129
##	[954,]	-0.4776636	1.6722230	2.0638820	0.5632416	-0.0650566
##	[955,]	0.2656958	0.9522975	-0.8433995	-0.1052355	-0.8472847

## [956,]	1.7524146	1.6722230	2.0638820	-0.7737127	-0.0650566
## [957,]	-1.2210230	-1.2074790	-0.8433995	-0.1052355	-0.8472847
## [958,]	-1.2210230	-1.2074790	-0.8433995	-1.4421898	-1.6295129
## [959,]	-1.2210230	0.9522975	1.3370617	-0.1052355	0.7171715
## [960,]	1.0090552	-0.4875535	-0.1165791	-1.4421898	-0.8472847
## [961,]	-0.4776636	-0.4875535	0.6102413	1.2317188	-0.0650566
## [962,]	0.2656958	1.6722230	1.3370617	-0.1052355	1.4993997
## [963,]	1.0090552	0.2323720	-0.1165791	1.2317188	0.7171715
## [964,]	0.2656958	0.2323720	-0.1165791	-1.4421898	-0.0650566
## [965,]	1.0090552	0.2323720	0.6102413	-0.1052355	-0.0650566
## [966,]	-1.2210230	0.2323720	-0.8433995	1.2317188	1.4993997
## [967,]	0.2656958	0.9522975	-0.8433995	1.2317188	0.7171715
## [968,]	-0.4776636	0.9522975	0.6102413	1.2317188	0.7171715
## [969,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	-0.8472847
## [970,]	1.0090552	-1.2074790	-0.8433995	0.5632416	-1.6295129
## [971,]	1.7524146	-1.2074790	-0.8433995	0.5632416	-1.6295129
## [972,]	-0.4776636	-0.4875535	-0.1165791	0.5632416	0.7171715
## [973,]	-1.2210230	1.6722230	2.0638820	1.2317188	-0.0650566
## [974,]	-1.2210230	-1.2074790	-0.1165791	0.5632416	-0.8472847
## [975,]	-0.4776636	0.2323720	1.3370617	1.2317188	-0.8472847
## [976,]	-1.2210230	0.2323720	-0.8433995	1.2317188	1.4993997
## [977,]	1.0090552	-0.4875535	0.6102413	0.5632416	-0.0650566
## [978,]	-0.4776636	-1.2074790	-0.8433995	-0.7737127	1.4993997
## [979,]	1.7524146	0.2323720	-0.1165791	1.2317188	0.7171715
## [980,]	1.7524146	0.2323720	-0.1165791	-0.1052355	1.4993997
## [981,]	-0.4776636	-0.4875535	-0.8433995	1.2317188	-1.6295129
## [982,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	0.7171715
## [983,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	-1.6295129
## [984,]	1.0090552	-0.4875535	-0.8433995	-0.1052355	-0.0650566
## [985,]	1.0090552	-1.2074790	-0.8433995	0.5632416	-0.0650566
## [986,]	0.2656958	-1.2074790	-0.8433995	1.2317188	-0.8472847
## [987,]	0.2656958	-0.4875535	-0.8433995	1.2317188	-0.0650566
## [988,]	-0.4776636	0.2323720	-0.8433995	-1.4421898	0.7171715
## [989,]	1.7524146	1.6722230	2.0638820	1.2317188	0.7171715
## [990,]	0.2656958	0.2323720	0.6102413	1.2317188	1.4993997
## [991,]	0.2656958	-1.2074790	-0.8433995	-0.1052355	0.7171715
## [992,]	-0.4776636	-1.2074790	-0.8433995	-0.7737127	-0.8472847
## [993,]	-1.2210230	0.9522975	1.3370617	-0.7737127	0.7171715
## [994,]	1.0090552	-1.2074790	-0.8433995	-0.1052355	-0.8472847
## [995,]	-1.2210230	0.9522975	-0.8433995	1.2317188	-0.8472847
## [996,]	1.0090552	-1.2074790	-0.1165791	-1.4421898	1.4993997
## [997,]	-0.4776636	-0.4875535	-0.8433995	-1.4421898	0.7171715
## [998,]	0.2656958	-0.4875535	-0.8433995	-1.4421898	0.7171715
## [999,]	-0.4776636	0.2323720	-0.1165791	0.5632416	-0.8472847
## [1000,]	0.2656958	0.9522975	0.6102413	-0.1052355	0.7171715
## [1001,]	-0.4776636	1.6722230	2.0638820	-0.7737127	-0.0650566
## [1002,]	1.0090552	-0.4875535	-0.8433995	-0.1052355	-0.8472847
## [1003,]	-0.4776636	-1.2074790	-0.8433995	-1.4421898	-0.8472847
## [1004,]	1.0090552	0.2323720	-0.1165791	0.5632416	-0.8472847
## [1005,]	0.2656958	0.2323720	-0.1165791	-0.7737127	-0.0650566

## [1006,]	-1.2210230	-0.4875535	-0.8433995	1.2317188	0.7171715
## [1007,]	-0.4776636	-0.4875535	-0.8433995	-1.4421898	-0.8472847
## [1008,]	-1.2210230	-1.2074790	-0.8433995	0.5632416	-1.6295129
## [1009,]	0.2656958	0.2323720	0.6102413	-0.7737127	1.4993997
## [1010,]	-1.2210230	1.6722230	0.6102413	-1.4421898	1.4993997
##	Foreign.languages	Medicine	Law	Cars	Art.exhibitions
## [1,]	1.0693999	0.3491648	-1.0102910	-1.1695589	-1.2050590
## [2,]	1.0693999	-1.0991162	-0.2055639	-0.4751118	-0.4490903
## [3,]	1.0693999	-0.3749757	0.5991631	-1.1695589	1.8188158
## [4,]	0.1919881	-0.3749757	2.2086173	-1.1695589	1.8188158
## [5,]	-0.6854236	0.3491648	-0.2055639	0.2193353	-1.2050590
## [6,]	0.1919881	1.0733052	0.5991631	1.6082294	-0.4490903
## [7,]	0.1919881	1.7974457	0.5991631	0.9137823	-1.2050590
## [8,]	0.1919881	-1.0991162	-0.2055639	-1.1695589	-1.2050590
## [9,]	-2.4402471	-1.0991162	-1.0102910	-1.1695589	-1.2050590
## [10,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	1.0628471
## [11,]	1.0693999	-0.3749757	1.4038902	-0.4751118	-0.4490903
## [12,]	-1.5628354	-1.0991162	0.5991631	-1.1695589	1.8188158
## [13,]	1.0693999	1.7974457	-0.2055639	0.2193353	-1.2050590
## [14,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	0.3068784
## [15,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	1.0628471
## [16,]	0.1919881	-0.3749757	1.4038902	1.6082294	0.3068784
## [17,]	-0.6854236	1.7974457	-1.0102910	-1.1695589	-1.2050590
## [18,]	-1.5628354	0.3491648	-1.0102910	-1.1695589	-1.2050590
## [19,]	0.1919881	-0.3749757	-1.0102910	-0.4751118	-1.2050590
## [20,]	0.1919881	-0.3749757	-1.0102910	0.9137823	-0.4490903
## [21,]	0.1919881	1.0733052	-0.2055639	1.6082294	-0.4490903
## [22,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	-0.4490903
## [23,]	-0.6854236	0.3491648	-0.2055639	-0.4751118	-1.2050590
## [24,]	0.1919881	1.0733052	-0.2055639	0.2193353	-0.4490903
## [25,]	1.0693999	1.0733052	2.2086173	0.2193353	1.0628471
## [26,]	1.0693999	-1.0991162	0.5991631	-1.1695589	-0.4490903
## [27,]	-0.6854236	-0.3749757	-1.0102910	0.9137823	-0.4490903
## [28,]	0.1919881	1.0733052	-1.0102910	-1.1695589	-0.4490903
## [29,]	0.1919881	-0.3749757	0.5991631	1.6082294	-1.2050590
## [30,]	1.0693999	0.3491648	-0.2055639	-0.4751118	1.0628471
## [31,]	0.1919881	1.0733052	1.4038902	0.9137823	-0.4490903
## [32,]	0.1919881	-1.0991162	-1.0102910	0.2193353	1.0628471
## [33,]	-0.6854236	-1.0991162	-0.2055639	0.2193353	1.0628471
## [34,]	1.0693999	1.7974457	1.4038902	-1.1695589	1.8188158
## [35,]	1.0693999	0.3491648	-0.2055639	1.6082294	0.3068784
## [36,]	1.0693999	-1.0991162	2.2086173	0.9137823	-0.4490903
## [37,]	0.1919881	1.7974457	0.5991631	0.9137823	0.3068784
## [38,]	0.1919881	0.3491648	0.5991631	-0.4751118	-0.4490903
## [39,]	1.0693999	1.0733052	0.5991631	-1.1695589	1.0628471
## [40,]	-2.4402471	1.7974457	-1.0102910	0.9137823	-1.2050590
## [41,]	-0.6854236	-0.3749757	-0.2055639	-1.1695589	-1.2050590
## [42,]	-0.6854236	0.3491648	-1.0102910	-1.1695589	-1.2050590
## [43,]	1.0693999	1.0733052	0.5991631	0.2193353	-0.4490903
## [44,]	1.0693999	-1.0991162	-0.2055639	-0.4751118	1.8188158

##	[45,]	-0.6854236	-1.0991162	1.4038902	-1.1695589	0.3068784
##	[46,]	-1.5628354	-0.3749757	-1.0102910	-1.1695589	-1.2050590
##	[47,]	1.0693999	-0.3749757	-1.0102910	1.6082294	1.8188158
##	[48,]	1.0693999	0.3491648	-1.0102910	-0.4751118	-1.2050590
##	[49,]	1.0693999	0.3491648	-0.2055639	-0.4751118	-0.4490903
##	[50,]	0.1919881	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[51,]	0.1919881	1.7974457	-1.0102910	-1.1695589	0.3068784
##	[52,]	0.1919881	1.7974457	-0.2055639	0.9137823	0.3068784
##	[53,]	0.1919881	-0.3749757	-0.2055639	0.2193353	1.0628471
##	[54,]	1.0693999	1.0733052	0.5991631	1.6082294	1.8188158
##	[55,]	0.1919881	0.3491648	-0.2055639	-0.4751118	1.8188158
##	[56,]	1.0693999	0.3491648	0.5991631	-0.4751118	0.3068784
##	[57,]	1.0693999	-0.3749757	1.4038902	0.2193353	1.8188158
##	[58,]	-0.6854236	0.3491648	-0.2055639	-1.1695589	1.8188158
##	[59,]	0.1919881	1.7974457	-1.0102910	-0.4751118	-1.2050590
##	[60,]	-0.6854236	-1.0991162	0.5991631	-1.1695589	1.0628471
##	[61,]	0.1919881	0.3491648	-0.2055639	0.2193353	1.8188158
##	[62,]	-0.6854236	0.3491648	0.5991631	0.9137823	0.3068784
##	[63,]	0.1919881	0.3491648	0.5991631	1.6082294	-0.4490903
##	[64,]	-0.6854236	-0.3749757	1.4038902	1.6082294	0.3068784
##	[65,]	1.0693999	1.7974457	-1.0102910	-1.1695589	-0.4490903
##	[66,]	-0.6854236	0.3491648	-1.0102910	-0.4751118	-1.2050590
##	[67,]	-1.5628354	-1.0991162	-1.0102910	0.9137823	-0.4490903
##	[68,]	0.1919881	0.3491648	0.5991631	-1.1695589	-0.4490903
##	[69,]	0.1919881	-1.0991162	1.4038902	0.2193353	-0.4490903
##	[70,]	-0.6854236	1.0733052	-1.0102910	-0.4751118	0.3068784
##	[71,]	-0.6854236	-1.0991162	2.2086173	1.6082294	-0.4490903
##	[72,]	-1.5628354	-1.0991162	2.2086173	1.6082294	-1.2050590
##	[73,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[74,]	1.0693999	-1.0991162	-0.2055639	1.6082294	-0.4490903
##	[75,]	1.0693999	-1.0991162	0.5991631	1.6082294	0.3068784
##	[76,]	1.0693999	1.7974457	-0.2055639	1.6082294	1.8188158
##	[77,]	-0.6854236	-1.0991162	0.5991631	1.6082294	-1.2050590
##	[78,]	1.0693999	0.3491648	-1.0102910	-1.1695589	1.0628471
##	[79,]	1.0693999	1.0733052	-1.0102910	-1.1695589	1.8188158
##	[80,]	1.0693999	-0.3749757	2.2086173	0.9137823	-0.4490903
##	[81,]	-0.6854236	-0.3749757	2.2086173	0.2193353	-0.4490903
##	[82,]	0.1919881	-1.0991162	1.4038902	1.6082294	0.3068784
##	[83,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[84,]	0.1919881	1.7974457	2.2086173	0.9137823	0.3068784
##	[85,]	1.0693999	0.3491648	0.5991631	0.2193353	0.3068784
##	[86,]	-0.6854236	0.3491648	-0.2055639	0.2193353	1.8188158
##	[87,]	0.1919881	1.0733052	1.4038902	0.9137823	1.8188158
##	[88,]	1.0693999	-1.0991162	1.4038902	-1.1695589	-0.4490903
##	[89,]	1.0693999	-1.0991162	0.5991631	-1.1695589	0.3068784
##	[90,]	0.1919881	-0.3749757	-0.2055639	-1.1695589	1.0628471
##	[91,]	0.1919881	1.0733052	-1.0102910	0.2193353	-1.2050590
##	[92,]	1.0693999	1.7974457	-1.0102910	-1.1695589	-1.2050590
##	[93,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	1.8188158
##	[94,]	-1.5628354	-1.0991162	-0.2055639	1.6082294	0.3068784

##	[95,]	0.1919881	-0.3749757	-0.2055639	0.9137823	-0.4490903
##	[96,]	0.1919881	-1.0991162	-0.2055639	1.6082294	0.3068784
##	[97,]	-2.4402471	1.7974457	-1.0102910	-1.1695589	-1.2050590
##	[98,]	0.1919881	-1.0991162	-0.2055639	-0.4751118	-1.2050590
##	[99,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	0.3068784
##	[100,]	0.1919881	-1.0991162	-1.0102910	-0.4751118	-0.4490903
##	[101,]	0.1919881	1.7974457	-1.0102910	-0.4751118	0.3068784
##	[102,]	-0.6854236	-1.0991162	-0.2055639	0.2193353	-1.2050590
##	[103,]	1.0693999	1.7974457	1.4038902	-0.4751118	1.0628471
##	[104,]	1.0693999	-0.3749757	1.4038902	1.6082294	-0.4490903
##	[105,]	-0.6854236	-0.3749757	2.2086173	0.9137823	1.0628471
##	[106,]	-0.6854236	-1.0991162	0.5991631	0.2193353	-1.2050590
##	[107,]	1.0693999	-1.0991162	-0.2055639	0.2193353	-1.2050590
##	[108,]	-2.4402471	1.7974457	-0.2055639	0.9137823	1.8188158
##	[109,]	0.1919881	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[110,]	-0.6854236	0.3491648	-0.2055639	1.6082294	-0.4490903
##	[111,]	0.1919881	0.3491648	-1.0102910	-1.1695589	-1.2050590
##	[112,]	1.0693999	0.3491648	-0.2055639	-1.1695589	1.8188158
##	[113,]	0.1919881	1.7974457	-0.2055639	-1.1695589	1.0628471
##	[114,]	-2.4402471	-1.0991162	-1.0102910	0.9137823	-0.4490903
##	[115,]	1.0693999	0.3491648	-1.0102910	-0.4751118	1.8188158
##	[116,]	1.0693999	1.0733052	-0.2055639	1.6082294	1.0628471
##	[117,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[118,]	-1.5628354	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[119,]	-0.6854236	-0.3749757	-1.0102910	-0.4751118	1.0628471
##	[120,]	-2.4402471	0.3491648	-1.0102910	-1.1695589	-0.4490903
##	[121,]	0.1919881	0.3491648	0.5991631	-0.4751118	-1.2050590
##	[122,]	-1.5628354	0.3491648	1.4038902	1.6082294	-1.2050590
##	[123,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	1.8188158
##	[124,]	-0.6854236	0.3491648	0.5991631	-0.4751118	1.0628471
##	[125,]	0.1919881	1.0733052	1.4038902	0.9137823	1.8188158
##	[126,]	0.1919881	0.3491648	0.5991631	-1.1695589	1.0628471
##	[127,]	1.0693999	-1.0991162	-1.0102910	0.2193353	-0.4490903
##	[128,]	0.1919881	0.3491648	-0.2055639	0.9137823	0.3068784
##	[129,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[130,]	-0.6854236	1.7974457	-0.2055639	-1.1695589	0.3068784
##	[131,]	0.1919881	-0.3749757	2.2086173	-1.1695589	1.0628471
##	[132,]	0.1919881	-1.0991162	-1.0102910	0.9137823	-1.2050590
##	[133,]	1.0693999	0.3491648	-0.2055639	-1.1695589	-1.2050590
##	[134,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	1.8188158
##	[135,]	-0.6854236	1.0733052	0.5991631	0.2193353	0.3068784
##	[136,]	1.0693999	-0.3749757	2.2086173	0.9137823	1.0628471
##	[137,]	-0.6854236	1.7974457	-0.2055639	-0.4751118	-1.2050590
##	[138,]	1.0693999	0.3491648	-0.2055639	1.6082294	1.0628471
##	[139,]	1.0693999	1.7974457	-1.0102910	-1.1695589	-1.2050590
##	[140,]	0.1919881	-1.0991162	0.5991631	-1.1695589	1.0628471
##	[141,]	1.0693999	-0.3749757	-0.2055639	0.2193353	1.8188158
##	[142,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[143,]	-0.6854236	-1.0991162	-0.2055639	-0.4751118	-1.2050590
##	[144,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	-1.2050590

##	[145,]	-0.6854236	1.7974457	-1.0102910	-1.1695589	1.0628471
##	[146,]	0.1919881	1.0733052	-0.2055639	-1.1695589	-0.4490903
##	[147,]	1.0693999	0.3491648	2.2086173	0.9137823	-0.4490903
##	[148,]	0.1919881	-0.3749757	-0.2055639	-0.4751118	-1.2050590
##	[149,]	0.1919881	0.3491648	0.5991631	-1.1695589	-0.4490903
##	[150,]	-0.6854236	-0.3749757	-1.0102910	-0.4751118	-1.2050590
##	[151,]	0.1919881	-0.3749757	-1.0102910	0.2193353	0.3068784
##	[152,]	-1.5628354	0.3491648	-0.2055639	-0.4751118	0.3068784
##	[153,]	1.0693999	1.7974457	0.5991631	-1.1695589	-1.2050590
##	[154,]	-0.6854236	-0.3749757	-0.2055639	0.9137823	0.3068784
##	[155,]	1.0693999	-0.3749757	1.4038902	-0.4751118	-1.2050590
##	[156,]	1.0693999	1.0733052	2.2086173	-0.4751118	0.3068784
##	[157,]	1.0693999	-1.0991162	2.2086173	-1.1695589	-1.2050590
##	[158,]	-1.5628354	-0.3749757	-0.2055639	-0.4751118	-0.4490903
##	[159,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	1.0628471
##	[160,]	0.1919881	0.3491648	0.5991631	0.2193353	0.3068784
##	[161,]	0.1919881	-1.0991162	-0.2055639	0.9137823	0.3068784
##	[162,]	0.1919881	1.0733052	-1.0102910	-1.1695589	-0.4490903
##	[163,]	1.0693999	-1.0991162	0.5991631	0.9137823	-1.2050590
##	[164,]	-1.5628354	-0.3749757	-1.0102910	-1.1695589	-1.2050590
##	[165,]	0.1919881	-1.0991162	-0.2055639	-1.1695589	0.3068784
##	[166,]	1.0693999	-0.3749757	2.2086173	-0.4751118	1.0628471
##	[167,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	0.3068784
##	[168,]	-2.4402471	-0.3749757	-0.2055639	-0.4751118	-1.2050590
##	[169,]	-0.6854236	-1.0991162	2.2086173	-0.4751118	-1.2050590
##	[170,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	1.0628471
##	[171,]	0.1919881	1.0733052	1.4038902	-1.1695589	-0.4490903
##	[172,]	-0.6854236	-1.0991162	2.2086173	-1.1695589	-1.2050590
##	[173,]	0.1919881	-0.3749757	0.5991631	-0.4751118	-0.4490903
##	[174,]	0.1919881	-0.3749757	-1.0102910	1.6082294	-1.2050590
##	[175,]	-0.6854236	0.3491648	0.5991631	1.6082294	1.8188158
##	[176,]	1.0693999	1.7974457	-1.0102910	1.6082294	-1.2050590
##	[177,]	-0.6854236	-1.0991162	-0.2055639	1.6082294	0.3068784
##	[178,]	-1.5628354	-0.3749757	-1.0102910	-1.1695589	0.3068784
##	[179,]	1.0693999	0.3491648	-1.0102910	-1.1695589	-0.4490903
##	[180,]	0.1919881	0.3491648	0.5991631	-1.1695589	1.0628471
##	[181,]	0.1919881	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[182,]	-0.6854236	0.3491648	0.5991631	1.6082294	0.3068784
##	[183,]	0.1919881	1.7974457	-0.2055639	-0.4751118	0.3068784
##	[184,]	-0.6854236	0.3491648	-1.0102910	-1.1695589	1.0628471
##	[185,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[186,]	-0.6854236	-1.0991162	-0.2055639	-0.4751118	0.3068784
##	[187,]	-1.5628354	-1.0991162	-0.2055639	-1.1695589	-0.4490903
##	[188,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[189,]	-0.6854236	1.7974457	0.5991631	0.2193353	-1.2050590
##	[190,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	-0.4490903
##	[191,]	-0.6854236	1.0733052	-1.0102910	-0.4751118	-1.2050590
##	[192,]	-2.4402471	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[193,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	-0.4490903
##	[194,]	-1.5628354	-0.3749757	-1.0102910	-1.1695589	0.3068784

##	[195,]	0.1919881	-1.0991162	0.5991631	0.2193353	0.3068784
##	[196,]	0.1919881	0.3491648	0.5991631	0.9137823	-0.4490903
##	[197,]	1.0693999	1.0733052	-0.2055639	0.2193353	-0.4490903
##	[198,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[199,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	-1.2050590
##	[200,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	0.3068784
##	[201,]	0.1919881	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[202,]	1.0693999	-1.0991162	2.2086173	-1.1695589	-1.2050590
##	[203,]	1.0693999	0.3491648	-1.0102910	0.9137823	-1.2050590
##	[204,]	0.1919881	1.7974457	0.5991631	0.9137823	0.3068784
##	[205,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[206,]	1.0693999	1.7974457	-1.0102910	-1.1695589	1.0628471
##	[207,]	1.0693999	0.3491648	2.2086173	0.9137823	1.8188158
##	[208,]	0.1919881	0.3491648	2.2086173	0.9137823	-0.4490903
##	[209,]	0.1919881	-0.3749757	-1.0102910	0.2193353	1.8188158
##	[210,]	-0.6854236	-0.3749757	1.4038902	0.2193353	0.3068784
##	[211,]	1.0693999	1.0733052	2.2086173	0.9137823	1.8188158
##	[212,]	1.0693999	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[213,]	0.1919881	0.3491648	1.4038902	0.2193353	1.8188158
##	[214,]	1.0693999	1.7974457	1.4038902	1.6082294	0.3068784
##	[215,]	1.0693999	1.7974457	1.4038902	0.9137823	1.0628471
##	[216,]	-2.4402471	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[217,]	-0.6854236	1.7974457	0.5991631	-1.1695589	-0.4490903
##	[218,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	1.0628471
##	[219,]	1.0693999	1.7974457	0.5991631	0.9137823	-1.2050590
##	[220,]	-0.6854236	-1.0991162	0.5991631	1.6082294	-0.4490903
##	[221,]	1.0693999	0.3491648	-0.2055639	0.9137823	0.3068784
##	[222,]	1.0693999	0.3491648	0.5991631	0.9137823	1.0628471
##	[223,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[224,]	0.1919881	-0.3749757	-0.2055639	-0.4751118	0.3068784
##	[225,]	-1.5628354	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[226,]	0.1919881	0.3491648	-0.2055639	1.6082294	0.3068784
##	[227,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[228,]	1.0693999	1.0733052	0.5991631	0.9137823	1.0628471
##	[229,]	0.1919881	1.0733052	-0.2055639	-1.1695589	1.8188158
##	[230,]	-0.6854236	-0.3749757	-0.2055639	-0.4751118	-0.4490903
##	[231,]	1.0693999	-0.3749757	-1.0102910	-0.4751118	0.3068784
##	[232,]	1.0693999	1.0733052	1.4038902	0.2193353	-0.4490903
##	[233,]	1.0693999	-1.0991162	0.5991631	-1.1695589	-1.2050590
##	[234,]	-0.6854236	0.3491648	-0.2055639	-0.4751118	-0.4490903
##	[235,]	-1.5628354	-1.0991162	0.5991631	0.2193353	-1.2050590
##	[236,]	0.1919881	-1.0991162	2.2086173	-0.4751118	-1.2050590
##	[237,]	1.0693999	-0.3749757	2.2086173	-0.4751118	1.8188158
##	[238,]	1.0693999	-0.3749757	-1.0102910	0.9137823	-0.4490903
##	[239,]	1.0693999	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[240,]	-0.6854236	-0.3749757	0.5991631	-0.4751118	1.0628471
##	[241,]	-0.6854236	-0.3749757	1.4038902	1.6082294	0.3068784
##	[242,]	1.0693999	0.3491648	2.2086173	0.9137823	0.3068784
##	[243,]	1.0693999	-0.3749757	-0.2055639	-1.1695589	1.8188158
##	[244,]	1.0693999	1.7974457	-1.0102910	-1.1695589	-0.4490903

##	[245,]	-0.6854236	0.3491648	-1.0102910	-1.1695589	-1.2050590
##	[246,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[247,]	-2.4402471	-1.0991162	2.2086173	0.2193353	-1.2050590
##	[248,]	1.0693999	1.7974457	0.5991631	-1.1695589	1.0628471
##	[249,]	1.0693999	0.3491648	2.2086173	-1.1695589	0.3068784
##	[250,]	-1.5628354	1.7974457	-1.0102910	-1.1695589	-0.4490903
##	[251,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[252,]	0.1919881	1.0733052	-1.0102910	-0.4751118	0.3068784
##	[253,]	1.0693999	-0.3749757	-1.0102910	-0.4751118	-0.4490903
##	[254,]	-1.5628354	-0.3749757	-1.0102910	1.6082294	-1.2050590
##	[255,]	-1.5628354	1.7974457	0.5991631	0.2193353	-1.2050590
##	[256,]	1.0693999	1.0733052	-1.0102910	-1.1695589	1.0628471
##	[257,]	-1.5628354	-1.0991162	0.5991631	0.2193353	-1.2050590
##	[258,]	0.1919881	-1.0991162	-1.0102910	1.6082294	-0.4490903
##	[259,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[260,]	0.1919881	0.3491648	1.4038902	0.9137823	-0.4490903
##	[261,]	-0.6854236	0.3491648	0.5991631	0.2193353	0.3068784
##	[262,]	1.0693999	-1.0991162	1.4038902	-0.4751118	0.3068784
##	[263,]	1.0693999	0.3491648	0.5991631	-1.1695589	1.0628471
##	[264,]	1.0693999	-0.3749757	1.4038902	0.2193353	0.3068784
##	[265,]	-0.6854236	1.7974457	0.5991631	0.2193353	1.0628471
##	[266,]	-0.6854236	-0.3749757	-0.2055639	-1.1695589	-1.2050590
##	[267,]	1.0693999	-0.3749757	-1.0102910	0.2193353	0.3068784
##	[268,]	0.1919881	-0.3749757	-0.2055639	-1.1695589	0.3068784
##	[269,]	0.1919881	0.3491648	-1.0102910	-1.1695589	-1.2050590
##	[270,]	1.0693999	1.7974457	1.4038902	-1.1695589	-0.4490903
##	[271,]	0.1919881	-0.3749757	-0.2055639	-1.1695589	-0.4490903
##	[272,]	-0.6854236	-0.3749757	-0.2055639	1.6082294	-0.4490903
##	[273,]	0.1919881	1.7974457	-1.0102910	-1.1695589	1.8188158
##	[274,]	1.0693999	0.3491648	1.4038902	-0.4751118	1.0628471
##	[275,]	-1.5628354	-0.3749757	2.2086173	0.9137823	0.3068784
##	[276,]	1.0693999	-0.3749757	0.5991631	0.2193353	1.8188158
##	[277,]	0.1919881	-1.0991162	-0.2055639	-1.1695589	-1.2050590
##	[278,]	1.0693999	-0.3749757	1.4038902	0.2193353	-1.2050590
##	[279,]	0.1919881	0.3491648	-0.2055639	0.9137823	0.3068784
##	[280,]	-1.5628354	-1.0991162	2.2086173	-1.1695589	-1.2050590
##	[281,]	-0.6854236	0.3491648	-0.2055639	-0.4751118	0.3068784
##	[282,]	0.1919881	1.7974457	-1.0102910	0.9137823	0.3068784
##	[283,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	-1.2050590
##	[284,]	0.1919881	0.3491648	-0.2055639	0.2193353	-0.4490903
##	[285,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	-1.2050590
##	[286,]	1.0693999	1.7974457	-1.0102910	-1.1695589	1.0628471
##	[287,]	1.0693999	-0.3749757	-0.2055639	0.9137823	1.8188158
##	[288,]	0.1919881	0.3491648	-0.2055639	-0.4751118	0.3068784
##	[289,]	1.0693999	-0.3749757	-0.2055639	0.9137823	-0.4490903
##	[290,]	0.1919881	0.3491648	2.2086173	0.2193353	-1.2050590
##	[291,]	0.1919881	1.7974457	0.5991631	-1.1695589	1.8188158
##	[292,]	0.1919881	-1.0991162	0.5991631	0.2193353	-0.4490903
##	[293,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	0.3068784
##	[294,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	0.3068784

##	[295,]	1.0693999	-0.3749757	1.4038902	-0.4751118	1.0628471
##	[296,]	0.1919881	-0.3749757	-0.2055639	-0.4751118	-0.4490903
##	[297,]	1.0693999	-1.0991162	-1.0102910	1.6082294	-0.4490903
##	[298,]	-0.6854236	1.7974457	-1.0102910	-0.4751118	0.3068784
##	[299,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	0.3068784
##	[300,]	0.1919881	0.3491648	-0.2055639	0.2193353	0.3068784
##	[301,]	0.1919881	0.3491648	-0.2055639	-1.1695589	1.8188158
##	[302,]	-2.4402471	-0.3749757	-0.2055639	-0.4751118	0.3068784
##	[303,]	1.0693999	0.3491648	1.4038902	0.2193353	0.3068784
##	[304,]	0.1919881	0.3491648	0.5991631	0.9137823	-1.2050590
##	[305,]	0.1919881	-0.3749757	1.4038902	-1.1695589	-1.2050590
##	[306,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	0.3068784
##	[307,]	0.1919881	-1.0991162	0.5991631	1.6082294	-0.4490903
##	[308,]	1.0693999	1.7974457	-1.0102910	-1.1695589	-0.4490903
##	[309,]	0.1919881	1.0733052	1.4038902	0.9137823	-0.4490903
##	[310,]	0.1919881	-0.3749757	-1.0102910	-0.4751118	0.3068784
##	[311,]	-1.5628354	1.7974457	-1.0102910	1.6082294	-1.2050590
##	[312,]	1.0693999	-0.3749757	-0.2055639	0.9137823	0.3068784
##	[313,]	-2.4402471	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[314,]	0.1919881	-1.0991162	-0.2055639	-0.4751118	0.3068784
##	[315,]	1.0693999	0.3491648	0.5991631	1.6082294	1.8188158
##	[316,]	-0.6854236	-1.0991162	-1.0102910	-0.4751118	-0.4490903
##	[317,]	-2.4402471	-0.3749757	0.5991631	-0.4751118	0.3068784
##	[318,]	-0.6854236	-0.3749757	-1.0102910	0.9137823	-1.2050590
##	[319,]	0.1919881	1.7974457	-0.2055639	-1.1695589	-1.2050590
##	[320,]	1.0693999	-0.3749757	-0.2055639	-0.4751118	0.3068784
##	[321,]	0.1919881	-0.3749757	-0.2055639	0.9137823	0.3068784
##	[322,]	0.1919881	1.7974457	0.5991631	-1.1695589	-0.4490903
##	[323,]	-0.6854236	-1.0991162	2.2086173	0.2193353	0.3068784
##	[324,]	-0.6854236	1.7974457	-1.0102910	-1.1695589	-1.2050590
##	[325,]	-0.6854236	1.0733052	-0.2055639	-1.1695589	-0.4490903
##	[326,]	0.1919881	1.7974457	-0.2055639	1.6082294	0.3068784
##	[327,]	-0.6854236	-0.3749757	-0.2055639	-1.1695589	-1.2050590
##	[328,]	0.1919881	-0.3749757	-0.2055639	0.9137823	0.3068784
##	[329,]	1.0693999	-1.0991162	0.5991631	1.6082294	-1.2050590
##	[330,]	-0.6854236	-0.3749757	-1.0102910	0.2193353	-1.2050590
##	[331,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[332,]	-0.6854236	1.7974457	-0.2055639	1.6082294	0.3068784
##	[333,]	-0.6854236	1.7974457	-0.2055639	-0.4751118	-0.4490903
##	[334,]	-0.6854236	0.3491648	-0.2055639	-0.4751118	0.3068784
##	[335,]	1.0693999	-0.3749757	-0.2055639	-1.1695589	-1.2050590
##	[336,]	-1.5628354	-0.3749757	-0.2055639	1.6082294	0.3068784
##	[337,]	-0.6854236	1.0733052	-1.0102910	-0.4751118	-1.2050590
##	[338,]	-2.4402471	-1.0991162	1.4038902	1.6082294	-1.2050590
##	[339,]	-0.6854236	-1.0991162	-0.2055639	-1.1695589	1.0628471
##	[340,]	-0.6854236	-0.3749757	2.2086173	0.2193353	-0.4490903
##	[341,]	0.1919881	-0.3749757	0.5991631	-1.1695589	-1.2050590
##	[342,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	0.3068784
##	[343,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	0.3068784
##	[344,]	0.1919881	-0.3749757	-0.2055639	-1.1695589	0.3068784

##	[345,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[346,]	1.0693999	-1.0991162	0.5991631	0.2193353	0.3068784
##	[347,]	-2.4402471	-1.0991162	-1.0102910	0.9137823	0.3068784
##	[348,]	0.1919881	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[349,]	-1.5628354	0.3491648	-1.0102910	-1.1695589	-0.4490903
##	[350,]	0.1919881	-1.0991162	-1.0102910	0.2193353	-0.4490903
##	[351,]	-2.4402471	-1.0991162	-1.0102910	0.9137823	-1.2050590
##	[352,]	1.0693999	1.7974457	-0.2055639	-0.4751118	-0.4490903
##	[353,]	-0.6854236	1.7974457	-1.0102910	0.2193353	-1.2050590
##	[354,]	1.0693999	-0.3749757	1.4038902	0.2193353	1.0628471
##	[355,]	0.1919881	0.3491648	0.5991631	0.2193353	1.0628471
##	[356,]	0.1919881	-0.3749757	1.4038902	0.9137823	-1.2050590
##	[357,]	0.1919881	-0.3749757	-0.2055639	0.2193353	-1.2050590
##	[358,]	-0.6854236	0.3491648	-0.2055639	0.9137823	-0.4490903
##	[359,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[360,]	1.0693999	-0.3749757	-0.2055639	0.2193353	0.3068784
##	[361,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-0.4490903
##	[362,]	1.0693999	0.3491648	-1.0102910	0.9137823	1.8188158
##	[363,]	1.0693999	0.3491648	-0.2055639	0.9137823	-1.2050590
##	[364,]	1.0693999	-0.3749757	-1.0102910	0.2193353	-1.2050590
##	[365,]	-0.6854236	-1.0991162	-1.0102910	-0.4751118	-0.4490903
##	[366,]	1.0693999	1.0733052	1.4038902	1.6082294	1.0628471
##	[367,]	0.1919881	-1.0991162	-0.2055639	0.2193353	-1.2050590
##	[368,]	0.1919881	-1.0991162	-0.2055639	1.6082294	-1.2050590
##	[369,]	1.0693999	1.0733052	-0.2055639	0.9137823	-1.2050590
##	[370,]	-1.5628354	0.3491648	0.5991631	1.6082294	-0.4490903
##	[371,]	1.0693999	1.7974457	-1.0102910	-0.4751118	-0.4490903
##	[372,]	-0.6854236	1.7974457	-0.2055639	-0.4751118	0.3068784
##	[373,]	0.1919881	-1.0991162	-1.0102910	0.9137823	-0.4490903
##	[374,]	0.1919881	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[375,]	-0.6854236	1.7974457	-1.0102910	-0.4751118	-1.2050590
##	[376,]	-0.6854236	0.3491648	-1.0102910	0.2193353	-1.2050590
##	[377,]	-0.6854236	0.3491648	-1.0102910	-1.1695589	-1.2050590
##	[378,]	1.0693999	1.7974457	0.5991631	0.9137823	1.8188158
##	[379,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	1.0628471
##	[380,]	-0.6854236	-0.3749757	1.4038902	0.2193353	0.3068784
##	[381,]	0.1919881	1.0733052	-1.0102910	-0.4751118	-1.2050590
##	[382,]	0.1919881	-1.0991162	0.5991631	-0.4751118	1.0628471
##	[383,]	0.1919881	1.0733052	-0.2055639	1.6082294	-0.4490903
##	[384,]	-0.6854236	-1.0991162	-1.0102910	-0.4751118	-0.4490903
##	[385,]	1.0693999	0.3491648	-0.2055639	-1.1695589	1.0628471
##	[386,]	0.1919881	0.3491648	0.5991631	0.9137823	0.3068784
##	[387,]	0.1919881	1.0733052	-1.0102910	-0.4751118	-0.4490903
##	[388,]	1.0693999	1.7974457	1.4038902	0.2193353	0.3068784
##	[389,]	1.0693999	0.3491648	-0.2055639	-0.4751118	0.3068784
##	[390,]	1.0693999	0.3491648	-1.0102910	-0.4751118	1.8188158
##	[391,]	1.0693999	0.3491648	0.5991631	0.9137823	-0.4490903
##	[392,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	1.0628471
##	[393,]	-1.5628354	0.3491648	-0.2055639	0.2193353	-0.4490903
##	[394,]	-1.5628354	-1.0991162	-1.0102910	0.2193353	-1.2050590

##	[395,]	-1.5628354	1.0733052	-0.2055639	0.9137823	-0.4490903
##	[396,]	1.0693999	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[397,]	0.1919881	-1.0991162	-1.0102910	-0.4751118	0.3068784
##	[398,]	0.1919881	-1.0991162	-1.0102910	0.2193353	0.3068784
##	[399,]	1.0693999	0.3491648	2.2086173	0.2193353	1.0628471
##	[400,]	0.1919881	-0.3749757	0.5991631	-1.1695589	1.8188158
##	[401,]	-0.6854236	1.0733052	-0.2055639	-1.1695589	1.0628471
##	[402,]	-0.6854236	-0.3749757	-1.0102910	-1.1695589	-1.2050590
##	[403,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[404,]	-0.6854236	-0.3749757	-1.0102910	0.2193353	-0.4490903
##	[405,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	1.0628471
##	[406,]	1.0693999	-0.3749757	1.4038902	-0.4751118	0.3068784
##	[407,]	1.0693999	-1.0991162	-1.0102910	0.9137823	-1.2050590
##	[408,]	1.0693999	0.3491648	1.4038902	-0.4751118	1.8188158
##	[409,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	0.3068784
##	[410,]	-0.6854236	-0.3749757	-1.0102910	0.2193353	1.8188158
##	[411,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[412,]	1.0693999	-0.3749757	2.2086173	1.6082294	-0.4490903
##	[413,]	-0.6854236	-1.0991162	-0.2055639	-1.1695589	-1.2050590
##	[414,]	-1.5628354	-0.3749757	-0.2055639	0.9137823	-0.4490903
##	[415,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	0.3068784
##	[416,]	1.0693999	1.7974457	0.5991631	-1.1695589	-1.2050590
##	[417,]	-1.5628354	-1.0991162	-0.2055639	-0.4751118	0.3068784
##	[418,]	-1.5628354	0.3491648	-0.2055639	-0.4751118	1.0628471
##	[419,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	-0.4490903
##	[420,]	-1.5628354	1.7974457	1.4038902	-1.1695589	0.3068784
##	[421,]	-0.6854236	-0.3749757	1.4038902	-1.1695589	0.3068784
##	[422,]	-0.6854236	0.3491648	0.5991631	-0.4751118	1.8188158
##	[423,]	0.1919881	-0.3749757	-0.2055639	1.6082294	-0.4490903
##	[424,]	1.0693999	1.7974457	0.5991631	0.2193353	1.0628471
##	[425,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[426,]	1.0693999	-1.0991162	0.5991631	0.2193353	1.8188158
##	[427,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[428,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	1.8188158
##	[429,]	-0.6854236	-0.3749757	0.5991631	-1.1695589	1.0628471
##	[430,]	0.1919881	-0.3749757	-0.2055639	-0.4751118	0.3068784
##	[431,]	1.0693999	0.3491648	-0.2055639	-1.1695589	-0.4490903
##	[432,]	0.1919881	-0.3749757	-1.0102910	1.6082294	-0.4490903
##	[433,]	1.0693999	-0.3749757	-0.2055639	-1.1695589	0.3068784
##	[434,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[435,]	0.1919881	1.7974457	0.5991631	1.6082294	0.3068784
##	[436,]	0.1919881	1.7974457	-1.0102910	-1.1695589	-1.2050590
##	[437,]	-1.5628354	1.7974457	-1.0102910	0.9137823	-0.4490903
##	[438,]	-0.6854236	-1.0991162	0.5991631	-1.1695589	-1.2050590
##	[439,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	-1.2050590
##	[440,]	1.0693999	-0.3749757	-0.2055639	0.9137823	-1.2050590
##	[441,]	0.1919881	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[442,]	-2.4402471	1.7974457	-1.0102910	-1.1695589	-1.2050590
##	[443,]	-0.6854236	-0.3749757	-0.2055639	-0.4751118	1.0628471
##	[444,]	1.0693999	-0.3749757	1.4038902	-1.1695589	-1.2050590

##	[445,]	0.1919881	1.0733052	-1.0102910	-0.4751118	1.0628471
##	[446,]	0.1919881	-1.0991162	1.4038902	-1.1695589	-1.2050590
##	[447,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[448,]	1.0693999	1.7974457	1.4038902	-1.1695589	1.8188158
##	[449,]	1.0693999	-1.0991162	1.4038902	0.2193353	-0.4490903
##	[450,]	-0.6854236	1.7974457	-0.2055639	-0.4751118	-1.2050590
##	[451,]	-1.5628354	1.7974457	-0.2055639	0.9137823	-1.2050590
##	[452,]	-0.6854236	1.7974457	-0.2055639	-0.4751118	-0.4490903
##	[453,]	1.0693999	1.7974457	0.5991631	0.9137823	1.8188158
##	[454,]	-0.6854236	1.7974457	-0.2055639	-0.4751118	-1.2050590
##	[455,]	1.0693999	-0.3749757	2.2086173	-1.1695589	0.3068784
##	[456,]	1.0693999	0.3491648	-1.0102910	-0.4751118	1.0628471
##	[457,]	-1.5628354	1.0733052	1.4038902	1.6082294	-1.2050590
##	[458,]	-0.6854236	-0.3749757	-1.0102910	1.6082294	-1.2050590
##	[459,]	1.0693999	1.7974457	2.2086173	1.6082294	1.8188158
##	[460,]	1.0693999	1.7974457	-1.0102910	-1.1695589	1.8188158
##	[461,]	1.0693999	-1.0991162	0.5991631	0.9137823	-1.2050590
##	[462,]	0.1919881	0.3491648	0.5991631	0.9137823	0.3068784
##	[463,]	-0.6854236	0.3491648	0.5991631	-1.1695589	-1.2050590
##	[464,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	1.0628471
##	[465,]	1.0693999	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[466,]	1.0693999	-0.3749757	0.5991631	-1.1695589	-0.4490903
##	[467,]	0.1919881	-1.0991162	1.4038902	1.6082294	-1.2050590
##	[468,]	-0.6854236	-1.0991162	-0.2055639	-1.1695589	-1.2050590
##	[469,]	0.1919881	-0.3749757	-0.2055639	0.2193353	-1.2050590
##	[470,]	0.1919881	0.3491648	-0.2055639	0.2193353	-1.2050590
##	[471,]	-0.6854236	-0.3749757	-1.0102910	0.9137823	-0.4490903
##	[472,]	-1.5628354	-0.3749757	-0.2055639	1.6082294	-1.2050590
##	[473,]	-2.4402471	-0.3749757	-1.0102910	-0.4751118	-1.2050590
##	[474,]	-0.6854236	1.7974457	-0.2055639	0.9137823	0.3068784
##	[475,]	-1.5628354	1.7974457	0.5991631	1.6082294	0.3068784
##	[476,]	-0.6854236	-0.3749757	0.5991631	-1.1695589	-0.4490903
##	[477,]	-0.6854236	1.7974457	-1.0102910	-1.1695589	1.8188158
##	[478,]	-1.5628354	-0.3749757	-1.0102910	-1.1695589	0.3068784
##	[479,]	1.0693999	-0.3749757	-0.2055639	0.9137823	1.0628471
##	[480,]	0.1919881	1.7974457	-0.2055639	-0.4751118	-0.4490903
##	[481,]	1.0693999	1.0733052	-0.2055639	0.2193353	1.0628471
##	[482,]	1.0693999	1.7974457	-1.0102910	-0.4751118	1.8188158
##	[483,]	-2.4402471	-0.3749757	0.5991631	-0.4751118	-0.4490903
##	[484,]	0.1919881	1.7974457	-0.2055639	-1.1695589	-1.2050590
##	[485,]	0.1919881	-1.0991162	0.5991631	-1.1695589	-1.2050590
##	[486,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	-1.2050590
##	[487,]	1.0693999	0.3491648	2.2086173	-1.1695589	1.8188158
##	[488,]	-0.6854236	1.7974457	1.4038902	1.6082294	-0.4490903
##	[489,]	1.0693999	0.3491648	2.2086173	0.9137823	0.3068784
##	[490,]	1.0693999	0.3491648	1.4038902	-1.1695589	-1.2050590
##	[491,]	0.1919881	0.3491648	0.5991631	-1.1695589	-1.2050590
##	[492,]	0.1919881	1.7974457	-1.0102910	-1.1695589	-0.4490903
##	[493,]	1.0693999	1.0733052	-1.0102910	-1.1695589	1.0628471
##	[494,]	-1.5628354	-1.0991162	-1.0102910	1.6082294	-1.2050590

##	[495,]	0.1919881	1.0733052	0.5991631	-0.4751118	1.0628471
##	[496,]	0.1919881	0.3491648	-0.2055639	-1.1695589	0.3068784
##	[497,]	-1.5628354	0.3491648	-0.2055639	-0.4751118	-1.2050590
##	[498,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[499,]	1.0693999	1.0733052	0.5991631	-0.4751118	-0.4490903
##	[500,]	-1.5628354	-1.0991162	-1.0102910	0.2193353	-0.4490903
##	[501,]	0.1919881	1.0733052	-1.0102910	-0.4751118	0.3068784
##	[502,]	1.0693999	-0.3749757	-0.2055639	-0.4751118	-0.4490903
##	[503,]	0.1919881	-1.0991162	-0.2055639	1.6082294	-1.2050590
##	[504,]	0.1919881	1.0733052	-1.0102910	-1.1695589	0.3068784
##	[505,]	0.1919881	0.3491648	-1.0102910	1.6082294	1.0628471
##	[506,]	-1.5628354	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[507,]	-1.5628354	0.3491648	-1.0102910	-0.4751118	-1.2050590
##	[508,]	-1.5628354	0.3491648	-1.0102910	-0.4751118	0.3068784
##	[509,]	1.0693999	-1.0991162	-0.2055639	0.2193353	-1.2050590
##	[510,]	1.0693999	1.7974457	1.4038902	-1.1695589	-1.2050590
##	[511,]	0.1919881	-0.3749757	0.5991631	1.6082294	0.3068784
##	[512,]	1.0693999	0.3491648	-0.2055639	1.6082294	0.3068784
##	[513,]	1.0693999	-1.0991162	2.2086173	0.2193353	0.3068784
##	[514,]	-0.6854236	-0.3749757	-1.0102910	0.9137823	-0.4490903
##	[515,]	-0.6854236	-1.0991162	0.5991631	0.2193353	-0.4490903
##	[516,]	0.1919881	-1.0991162	-1.0102910	0.2193353	1.0628471
##	[517,]	1.0693999	0.3491648	0.5991631	1.6082294	0.3068784
##	[518,]	1.0693999	1.7974457	2.2086173	0.2193353	1.0628471
##	[519,]	0.1919881	1.7974457	-1.0102910	-1.1695589	-0.4490903
##	[520,]	0.1919881	-0.3749757	0.5991631	0.2193353	1.8188158
##	[521,]	1.0693999	0.3491648	0.5991631	-0.4751118	0.3068784
##	[522,]	-0.6854236	1.0733052	0.5991631	-0.4751118	0.3068784
##	[523,]	0.1919881	-0.3749757	0.5991631	-0.4751118	-0.4490903
##	[524,]	0.1919881	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[525,]	-0.6854236	1.7974457	-1.0102910	-1.1695589	0.3068784
##	[526,]	-0.6854236	0.3491648	0.5991631	0.2193353	0.3068784
##	[527,]	-1.5628354	1.7974457	0.5991631	0.9137823	0.3068784
##	[528,]	0.1919881	-0.3749757	0.5991631	-0.4751118	1.0628471
##	[529,]	-0.6854236	0.3491648	0.5991631	1.6082294	-1.2050590
##	[530,]	0.1919881	-0.3749757	2.2086173	-0.4751118	-1.2050590
##	[531,]	0.1919881	1.0733052	0.5991631	-1.1695589	0.3068784
##	[532,]	0.1919881	-1.0991162	-0.2055639	0.2193353	1.0628471
##	[533,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	0.3068784
##	[534,]	1.0693999	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[535,]	-0.6854236	0.3491648	-1.0102910	-1.1695589	-1.2050590
##	[536,]	0.1919881	-0.3749757	-1.0102910	1.6082294	0.3068784
##	[537,]	1.0693999	-1.0991162	2.2086173	1.6082294	-0.4490903
##	[538,]	1.0693999	0.3491648	0.5991631	0.9137823	-0.4490903
##	[539,]	-1.5628354	1.7974457	0.5991631	-0.4751118	-0.4490903
##	[540,]	0.1919881	1.7974457	2.2086173	0.2193353	1.0628471
##	[541,]	-1.5628354	1.7974457	-1.0102910	1.6082294	1.0628471
##	[542,]	-0.6854236	0.3491648	-1.0102910	-0.4751118	-1.2050590
##	[543,]	0.1919881	-0.3749757	-0.2055639	0.9137823	1.0628471
##	[544,]	-1.5628354	-0.3749757	2.2086173	1.6082294	-0.4490903

##	[545,]	-1.5628354	1.7974457	-1.0102910	-0.4751118	0.3068784
##	[546,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	0.3068784
##	[547,]	1.0693999	0.3491648	-0.2055639	1.6082294	1.8188158
##	[548,]	1.0693999	-0.3749757	-0.2055639	-1.1695589	1.0628471
##	[549,]	-0.6854236	0.3491648	-0.2055639	-0.4751118	-1.2050590
##	[550,]	0.1919881	0.3491648	-1.0102910	-1.1695589	-0.4490903
##	[551,]	1.0693999	-0.3749757	0.5991631	-1.1695589	0.3068784
##	[552,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[553,]	1.0693999	0.3491648	2.2086173	-0.4751118	1.8188158
##	[554,]	0.1919881	-0.3749757	1.4038902	0.2193353	-1.2050590
##	[555,]	-0.6854236	0.3491648	0.5991631	1.6082294	0.3068784
##	[556,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	0.3068784
##	[557,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[558,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	0.3068784
##	[559,]	0.1919881	-0.3749757	-0.2055639	-0.4751118	1.8188158
##	[560,]	-1.5628354	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[561,]	0.1919881	1.7974457	2.2086173	1.6082294	1.8188158
##	[562,]	0.1919881	-0.3749757	-0.2055639	-0.4751118	0.3068784
##	[563,]	-0.6854236	-1.0991162	-0.2055639	1.6082294	-0.4490903
##	[564,]	1.0693999	0.3491648	1.4038902	0.9137823	-0.4490903
##	[565,]	1.0693999	-1.0991162	-1.0102910	0.9137823	-1.2050590
##	[566,]	1.0693999	-1.0991162	-0.2055639	1.6082294	1.8188158
##	[567,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	0.3068784
##	[568,]	-1.5628354	-0.3749757	-1.0102910	0.9137823	-0.4490903
##	[569,]	1.0693999	-0.3749757	-1.0102910	-0.4751118	-1.2050590
##	[570,]	0.1919881	0.3491648	2.2086173	-0.4751118	-0.4490903
##	[571,]	1.0693999	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[572,]	1.0693999	0.3491648	1.4038902	1.6082294	-0.4490903
##	[573,]	-0.6854236	1.0733052	-0.2055639	-0.4751118	-1.2050590
##	[574,]	1.0693999	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[575,]	1.0693999	1.0733052	-1.0102910	0.9137823	-1.2050590
##	[576,]	0.1919881	1.7974457	0.5991631	0.2193353	1.0628471
##	[577,]	-0.6854236	-0.3749757	0.5991631	1.6082294	0.3068784
##	[578,]	-0.6854236	0.3491648	-0.2055639	-0.4751118	-0.4490903
##	[579,]	1.0693999	1.0733052	-1.0102910	-1.1695589	-1.2050590
##	[580,]	-0.6854236	-1.0991162	-0.2055639	1.6082294	-1.2050590
##	[581,]	-1.5628354	-1.0991162	0.5991631	0.2193353	-1.2050590
##	[582,]	-1.5628354	-1.0991162	0.5991631	-0.4751118	-0.4490903
##	[583,]	1.0693999	-0.3749757	-0.2055639	-1.1695589	-1.2050590
##	[584,]	-0.6854236	-1.0991162	2.2086173	0.2193353	-1.2050590
##	[585,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[586,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[587,]	1.0693999	-1.0991162	0.5991631	-1.1695589	-1.2050590
##	[588,]	0.1919881	-0.3749757	0.5991631	0.2193353	-1.2050590
##	[589,]	-1.5628354	-0.3749757	-0.2055639	-0.4751118	-0.4490903
##	[590,]	0.1919881	0.3491648	1.4038902	0.2193353	1.8188158
##	[591,]	0.1919881	-0.3749757	0.5991631	0.2193353	1.0628471
##	[592,]	1.0693999	0.3491648	1.4038902	0.9137823	0.3068784
##	[593,]	1.0693999	1.7974457	0.5991631	1.6082294	0.3068784
##	[594,]	-0.6854236	1.7974457	-1.0102910	-0.4751118	-0.4490903

##	[595,]	1.0693999	-1.0991162	-1.0102910	-0.4751118	1.0628471
##	[596,]	0.1919881	1.7974457	-1.0102910	-0.4751118	-1.2050590
##	[597,]	-2.4402471	-1.0991162	-0.2055639	-0.4751118	-0.4490903
##	[598,]	-1.5628354	-0.3749757	-0.2055639	0.9137823	-0.4490903
##	[599,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-0.4490903
##	[600,]	-0.6854236	-0.3749757	-0.2055639	0.9137823	-0.4490903
##	[601,]	-1.5628354	-0.3749757	-0.2055639	0.2193353	0.3068784
##	[602,]	1.0693999	0.3491648	-1.0102910	-1.1695589	1.0628471
##	[603,]	-0.6854236	-1.0991162	-0.2055639	0.2193353	-0.4490903
##	[604,]	0.1919881	-1.0991162	-0.2055639	-0.4751118	0.3068784
##	[605,]	-0.6854236	0.3491648	0.5991631	0.9137823	1.8188158
##	[606,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	0.3068784
##	[607,]	-2.4402471	-0.3749757	-1.0102910	0.9137823	-1.2050590
##	[608,]	-0.6854236	1.7974457	-1.0102910	-0.4751118	-1.2050590
##	[609,]	-1.5628354	1.0733052	-0.2055639	0.9137823	-0.4490903
##	[610,]	0.1919881	-1.0991162	-1.0102910	0.2193353	0.3068784
##	[611,]	1.0693999	1.7974457	-1.0102910	-0.4751118	-1.2050590
##	[612,]	0.1919881	-0.3749757	0.5991631	0.2193353	-1.2050590
##	[613,]	-0.6854236	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[614,]	-0.6854236	-1.0991162	-0.2055639	0.2193353	1.0628471
##	[615,]	0.1919881	-1.0991162	-1.0102910	0.2193353	1.0628471
##	[616,]	1.0693999	0.3491648	-1.0102910	-0.4751118	-0.4490903
##	[617,]	-1.5628354	1.7974457	-0.2055639	1.6082294	-1.2050590
##	[618,]	1.0693999	-1.0991162	2.2086173	1.6082294	1.8188158
##	[619,]	1.0693999	-0.3749757	-0.2055639	1.6082294	-0.4490903
##	[620,]	0.1919881	-0.3749757	0.5991631	0.9137823	-1.2050590
##	[621,]	1.0693999	-1.0991162	-1.0102910	0.9137823	0.3068784
##	[622,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[623,]	1.0693999	-1.0991162	1.4038902	-0.4751118	0.3068784
##	[624,]	-2.4402471	-1.0991162	-0.2055639	0.2193353	-0.4490903
##	[625,]	1.0693999	0.3491648	-0.2055639	-1.1695589	0.3068784
##	[626,]	1.0693999	-0.3749757	-0.2055639	-0.4751118	-1.2050590
##	[627,]	-0.6854236	-0.3749757	-0.2055639	0.9137823	-0.4490903
##	[628,]	-0.6854236	0.3491648	-0.2055639	-1.1695589	-0.4490903
##	[629,]	-0.6854236	-0.3749757	-0.2055639	0.2193353	-1.2050590
##	[630,]	1.0693999	-1.0991162	0.5991631	-1.1695589	1.8188158
##	[631,]	0.1919881	-1.0991162	-0.2055639	0.9137823	-1.2050590
##	[632,]	1.0693999	1.7974457	0.5991631	-0.4751118	0.3068784
##	[633,]	-2.4402471	1.0733052	0.5991631	0.2193353	-0.4490903
##	[634,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	-0.4490903
##	[635,]	0.1919881	-0.3749757	-1.0102910	-1.1695589	1.0628471
##	[636,]	1.0693999	1.7974457	-0.2055639	-1.1695589	-0.4490903
##	[637,]	-0.6854236	-1.0991162	-0.2055639	1.6082294	0.3068784
##	[638,]	0.1919881	-0.3749757	-1.0102910	-0.4751118	1.0628471
##	[639,]	0.1919881	1.0733052	0.5991631	-1.1695589	-0.4490903
##	[640,]	0.1919881	-0.3749757	-1.0102910	0.9137823	-1.2050590
##	[641,]	1.0693999	1.7974457	-1.0102910	-0.4751118	-0.4490903
##	[642,]	-1.5628354	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[643,]	-2.4402471	1.7974457	-1.0102910	-0.4751118	1.0628471
##	[644,]	1.0693999	-0.3749757	-0.2055639	-0.4751118	1.0628471

##	[645,]	1.0693999	1.0733052	-0.2055639	-0.4751118	1.0628471
##	[646,]	-1.5628354	-0.3749757	0.5991631	1.6082294	1.0628471
##	[647,]	-0.6854236	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[648,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[649,]	-0.6854236	1.7974457	-0.2055639	-0.4751118	-0.4490903
##	[650,]	1.0693999	-0.3749757	0.5991631	-0.4751118	-0.4490903
##	[651,]	-1.5628354	-0.3749757	-1.0102910	0.9137823	1.0628471
##	[652,]	1.0693999	-1.0991162	1.4038902	0.9137823	-1.2050590
##	[653,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[654,]	1.0693999	1.0733052	1.4038902	-0.4751118	-1.2050590
##	[655,]	-1.5628354	0.3491648	0.5991631	1.6082294	-0.4490903
##	[656,]	1.0693999	0.3491648	-1.0102910	-1.1695589	0.3068784
##	[657,]	1.0693999	1.7974457	0.5991631	0.2193353	1.8188158
##	[658,]	0.1919881	0.3491648	-1.0102910	-1.1695589	0.3068784
##	[659,]	-0.6854236	-1.0991162	1.4038902	0.9137823	-0.4490903
##	[660,]	0.1919881	-0.3749757	0.5991631	-1.1695589	0.3068784
##	[661,]	1.0693999	0.3491648	-0.2055639	-1.1695589	1.0628471
##	[662,]	-0.6854236	0.3491648	-0.2055639	0.2193353	0.3068784
##	[663,]	0.1919881	0.3491648	-1.0102910	0.2193353	-0.4490903
##	[664,]	-1.5628354	-0.3749757	-1.0102910	-1.1695589	1.0628471
##	[665,]	0.1919881	1.7974457	-1.0102910	0.2193353	-0.4490903
##	[666,]	0.1919881	-1.0991162	-0.2055639	-0.4751118	1.8188158
##	[667,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[668,]	-0.6854236	-0.3749757	-0.2055639	-0.4751118	0.3068784
##	[669,]	0.1919881	1.7974457	-1.0102910	-1.1695589	1.0628471
##	[670,]	0.1919881	-0.3749757	-0.2055639	0.9137823	1.0628471
##	[671,]	0.1919881	-0.3749757	0.5991631	0.2193353	-0.4490903
##	[672,]	0.1919881	0.3491648	0.5991631	0.9137823	1.0628471
##	[673,]	0.1919881	0.3491648	0.5991631	0.2193353	1.0628471
##	[674,]	0.1919881	-0.3749757	-0.2055639	-1.1695589	0.3068784
##	[675,]	-0.6854236	-1.0991162	0.5991631	0.2193353	-1.2050590
##	[676,]	-2.4402471	-0.3749757	-0.2055639	-0.4751118	0.3068784
##	[677,]	0.1919881	-1.0991162	2.2086173	-0.4751118	0.3068784
##	[678,]	-0.6854236	-0.3749757	1.4038902	0.9137823	-0.4490903
##	[679,]	0.1919881	0.3491648	-0.2055639	-0.4751118	1.8188158
##	[680,]	1.0693999	0.3491648	-1.0102910	-1.1695589	1.8188158
##	[681,]	0.1919881	1.7974457	0.5991631	0.9137823	-0.4490903
##	[682,]	1.0693999	1.7974457	0.5991631	0.9137823	1.0628471
##	[683,]	-0.6854236	-0.3749757	-0.2055639	0.9137823	-0.4490903
##	[684,]	-0.6854236	1.7974457	1.4038902	0.2193353	-1.2050590
##	[685,]	-0.6854236	0.3491648	-0.2055639	0.2193353	0.3068784
##	[686,]	0.1919881	1.7974457	1.4038902	0.2193353	1.0628471
##	[687,]	-0.6854236	0.3491648	0.5991631	0.2193353	0.3068784
##	[688,]	1.0693999	-1.0991162	-0.2055639	1.6082294	1.0628471
##	[689,]	-0.6854236	0.3491648	-1.0102910	-1.1695589	0.3068784
##	[690,]	1.0693999	-0.3749757	1.4038902	1.6082294	1.0628471
##	[691,]	1.0693999	0.3491648	-0.2055639	1.6082294	0.3068784
##	[692,]	1.0693999	-1.0991162	-1.0102910	1.6082294	-0.4490903
##	[693,]	0.1919881	1.0733052	-0.2055639	-0.4751118	1.0628471
##	[694,]	-1.5628354	-1.0991162	1.4038902	0.2193353	-0.4490903

##	[695,]	1.0693999	-1.0991162	0.5991631	0.9137823	0.3068784
##	[696,]	0.1919881	-0.3749757	0.5991631	-0.4751118	1.0628471
##	[697,]	1.0693999	0.3491648	0.5991631	-1.1695589	-1.2050590
##	[698,]	1.0693999	-1.0991162	0.5991631	-0.4751118	-0.4490903
##	[699,]	1.0693999	0.3491648	-0.2055639	-1.1695589	-0.4490903
##	[700,]	0.1919881	0.3491648	-1.0102910	-0.4751118	-0.4490903
##	[701,]	-1.5628354	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[702,]	-0.6854236	1.7974457	-1.0102910	-0.4751118	-0.4490903
##	[703,]	-0.6854236	0.3491648	-1.0102910	1.6082294	-0.4490903
##	[704,]	-0.6854236	0.3491648	0.5991631	0.2193353	-0.4490903
##	[705,]	1.0693999	0.3491648	-0.2055639	-0.4751118	-1.2050590
##	[706,]	1.0693999	1.7974457	0.5991631	0.9137823	1.8188158
##	[707,]	0.1919881	-1.0991162	-1.0102910	0.9137823	-1.2050590
##	[708,]	-1.5628354	1.0733052	-0.2055639	-0.4751118	1.0628471
##	[709,]	-0.6854236	-0.3749757	1.4038902	1.6082294	-0.4490903
##	[710,]	1.0693999	-1.0991162	-1.0102910	1.6082294	0.3068784
##	[711,]	-0.6854236	-0.3749757	-0.2055639	-1.1695589	-0.4490903
##	[712,]	-0.6854236	-1.0991162	-1.0102910	-0.4751118	-0.4490903
##	[713,]	1.0693999	0.3491648	-1.0102910	-1.1695589	1.0628471
##	[714,]	1.0693999	-0.3749757	0.5991631	-0.4751118	1.0628471
##	[715,]	1.0693999	1.0733052	0.5991631	0.2193353	0.3068784
##	[716,]	-0.6854236	0.3491648	-0.2055639	0.2193353	-1.2050590
##	[717,]	0.1919881	1.0733052	2.2086173	0.2193353	-0.4490903
##	[718,]	1.0693999	-1.0991162	-1.0102910	-0.4751118	1.8188158
##	[719,]	1.0693999	1.0733052	-0.2055639	0.2193353	0.3068784
##	[720,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[721,]	-0.6854236	-0.3749757	-1.0102910	-0.4751118	1.0628471
##	[722,]	1.0693999	1.7974457	-1.0102910	-0.4751118	1.8188158
##	[723,]	1.0693999	-1.0991162	-0.2055639	-0.4751118	1.0628471
##	[724,]	1.0693999	-0.3749757	2.2086173	-0.4751118	0.3068784
##	[725,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[726,]	1.0693999	-1.0991162	1.4038902	0.2193353	-0.4490903
##	[727,]	-1.5628354	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[728,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[729,]	0.1919881	-1.0991162	-1.0102910	0.2193353	0.3068784
##	[730,]	0.1919881	1.7974457	0.5991631	0.2193353	-0.4490903
##	[731,]	1.0693999	1.7974457	-0.2055639	0.2193353	1.8188158
##	[732,]	1.0693999	-0.3749757	0.5991631	-0.4751118	-0.4490903
##	[733,]	1.0693999	-0.3749757	0.5991631	-1.1695589	-0.4490903
##	[734,]	1.0693999	0.3491648	1.4038902	-1.1695589	0.3068784
##	[735,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	0.3068784
##	[736,]	-2.4402471	-1.0991162	-0.2055639	-1.1695589	0.3068784
##	[737,]	-0.6854236	0.3491648	2.2086173	0.2193353	1.0628471
##	[738,]	1.0693999	0.3491648	-0.2055639	-1.1695589	1.0628471
##	[739,]	1.0693999	-1.0991162	-0.2055639	1.6082294	-1.2050590
##	[740,]	1.0693999	1.0733052	1.4038902	0.9137823	-0.4490903
##	[741,]	0.1919881	0.3491648	1.4038902	1.6082294	0.3068784
##	[742,]	1.0693999	1.0733052	-0.2055639	-1.1695589	1.8188158
##	[743,]	1.0693999	1.0733052	1.4038902	-0.4751118	0.3068784
##	[744,]	-0.6854236	-0.3749757	-0.2055639	-0.4751118	-0.4490903

##	[745,]	0.1919881	1.7974457	-1.0102910	0.9137823	0.3068784
##	[746,]	-0.6854236	-0.3749757	-0.2055639	1.6082294	-0.4490903
##	[747,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[748,]	-0.6854236	-0.3749757	-1.0102910	-0.4751118	1.8188158
##	[749,]	-1.5628354	-0.3749757	-0.2055639	-0.4751118	1.0628471
##	[750,]	1.0693999	0.3491648	1.4038902	-1.1695589	0.3068784
##	[751,]	-1.5628354	1.7974457	0.5991631	1.6082294	1.8188158
##	[752,]	0.1919881	-0.3749757	-0.2055639	-1.1695589	1.8188158
##	[753,]	1.0693999	1.0733052	1.4038902	-1.1695589	0.3068784
##	[754,]	1.0693999	0.3491648	-1.0102910	-1.1695589	-0.4490903
##	[755,]	1.0693999	-0.3749757	-0.2055639	0.9137823	0.3068784
##	[756,]	1.0693999	1.7974457	-1.0102910	-1.1695589	-1.2050590
##	[757,]	0.1919881	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[758,]	1.0693999	1.7974457	-1.0102910	-1.1695589	1.0628471
##	[759,]	0.1919881	-0.3749757	-1.0102910	1.6082294	-1.2050590
##	[760,]	-0.6854236	1.7974457	-0.2055639	0.9137823	1.8188158
##	[761,]	1.0693999	0.3491648	1.4038902	-1.1695589	-0.4490903
##	[762,]	-0.6854236	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[763,]	1.0693999	1.0733052	1.4038902	1.6082294	-0.4490903
##	[764,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[765,]	1.0693999	1.7974457	-1.0102910	-1.1695589	-0.4490903
##	[766,]	1.0693999	1.0733052	0.5991631	1.6082294	-0.4490903
##	[767,]	1.0693999	1.7974457	-0.2055639	1.6082294	-0.4490903
##	[768,]	0.1919881	1.7974457	0.5991631	0.2193353	0.3068784
##	[769,]	-0.6854236	-0.3749757	1.4038902	0.2193353	-1.2050590
##	[770,]	0.1919881	1.0733052	1.4038902	0.9137823	1.0628471
##	[771,]	-0.6854236	-0.3749757	-1.0102910	-0.4751118	0.3068784
##	[772,]	-0.6854236	-0.3749757	-0.2055639	1.6082294	-0.4490903
##	[773,]	0.1919881	-1.0991162	-0.2055639	0.2193353	-0.4490903
##	[774,]	-0.6854236	0.3491648	0.5991631	0.2193353	-0.4490903
##	[775,]	1.0693999	-1.0991162	-0.2055639	-0.4751118	0.3068784
##	[776,]	1.0693999	0.3491648	0.5991631	0.2193353	1.8188158
##	[777,]	1.0693999	0.3491648	-0.2055639	1.6082294	0.3068784
##	[778,]	-0.6854236	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[779,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	0.3068784
##	[780,]	0.1919881	-0.3749757	-0.2055639	-0.4751118	1.8188158
##	[781,]	1.0693999	0.3491648	1.4038902	0.9137823	0.3068784
##	[782,]	-0.6854236	0.3491648	-1.0102910	-1.1695589	1.0628471
##	[783,]	1.0693999	1.7974457	0.5991631	0.2193353	1.8188158
##	[784,]	-1.5628354	0.3491648	-0.2055639	0.9137823	0.3068784
##	[785,]	0.1919881	1.7974457	-0.2055639	1.6082294	1.0628471
##	[786,]	1.0693999	0.3491648	2.2086173	0.9137823	0.3068784
##	[787,]	-0.6854236	1.7974457	1.4038902	1.6082294	-0.4490903
##	[788,]	-0.6854236	-0.3749757	2.2086173	0.9137823	0.3068784
##	[789,]	0.1919881	0.3491648	1.4038902	-1.1695589	-0.4490903
##	[790,]	0.1919881	-1.0991162	0.5991631	0.2193353	1.8188158
##	[791,]	0.1919881	1.0733052	-1.0102910	-1.1695589	-0.4490903
##	[792,]	-0.6854236	1.7974457	-0.2055639	-1.1695589	1.0628471
##	[793,]	-1.5628354	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[794,]	0.1919881	-0.3749757	1.4038902	0.2193353	1.0628471

##	[795,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[796,]	0.1919881	1.0733052	1.4038902	1.6082294	0.3068784
##	[797,]	0.1919881	0.3491648	1.4038902	0.9137823	1.8188158
##	[798,]	-0.6854236	-0.3749757	-0.2055639	1.6082294	-1.2050590
##	[799,]	1.0693999	1.0733052	2.2086173	0.9137823	-0.4490903
##	[800,]	0.1919881	0.3491648	-0.2055639	0.2193353	1.0628471
##	[801,]	-0.6854236	1.7974457	-1.0102910	-1.1695589	-1.2050590
##	[802,]	-1.5628354	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[803,]	1.0693999	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[804,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	0.3068784
##	[805,]	1.0693999	-1.0991162	-1.0102910	0.9137823	1.0628471
##	[806,]	1.0693999	0.3491648	-0.2055639	-1.1695589	1.8188158
##	[807,]	0.1919881	-1.0991162	0.5991631	1.6082294	-1.2050590
##	[808,]	0.1919881	-1.0991162	1.4038902	1.6082294	-0.4490903
##	[809,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[810,]	1.0693999	-1.0991162	-0.2055639	1.6082294	-1.2050590
##	[811,]	-0.6854236	0.3491648	0.5991631	-0.4751118	1.8188158
##	[812,]	0.1919881	1.0733052	0.5991631	-0.4751118	1.0628471
##	[813,]	-1.5628354	-1.0991162	2.2086173	1.6082294	-1.2050590
##	[814,]	-1.5628354	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[815,]	1.0693999	0.3491648	-1.0102910	1.6082294	1.8188158
##	[816,]	1.0693999	1.7974457	-0.2055639	1.6082294	-1.2050590
##	[817,]	1.0693999	-0.3749757	1.4038902	0.9137823	0.3068784
##	[818,]	-2.4402471	1.0733052	-1.0102910	-1.1695589	0.3068784
##	[819,]	1.0693999	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[820,]	0.1919881	1.7974457	0.5991631	1.6082294	-0.4490903
##	[821,]	1.0693999	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[822,]	1.0693999	0.3491648	-1.0102910	0.2193353	0.3068784
##	[823,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[824,]	-0.6854236	-1.0991162	-0.2055639	-0.4751118	-0.4490903
##	[825,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[826,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	1.0628471
##	[827,]	1.0693999	0.3491648	-1.0102910	-1.1695589	1.8188158
##	[828,]	0.1919881	0.3491648	-0.2055639	-1.1695589	1.8188158
##	[829,]	0.1919881	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[830,]	1.0693999	0.3491648	2.2086173	-1.1695589	1.0628471
##	[831,]	1.0693999	1.7974457	2.2086173	-1.1695589	0.3068784
##	[832,]	1.0693999	0.3491648	2.2086173	1.6082294	1.8188158
##	[833,]	1.0693999	1.0733052	-1.0102910	-1.1695589	1.8188158
##	[834,]	0.1919881	-0.3749757	1.4038902	-1.1695589	1.0628471
##	[835,]	1.0693999	1.0733052	0.5991631	0.9137823	0.3068784
##	[836,]	-0.6854236	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[837,]	0.1919881	-0.3749757	-0.2055639	1.6082294	-1.2050590
##	[838,]	1.0693999	1.7974457	-1.0102910	-1.1695589	1.0628471
##	[839,]	-0.6854236	-1.0991162	1.4038902	-0.4751118	0.3068784
##	[840,]	0.1919881	0.3491648	2.2086173	0.2193353	-0.4490903
##	[841,]	-1.5628354	-0.3749757	-0.2055639	0.2193353	-1.2050590
##	[842,]	1.0693999	-0.3749757	-0.2055639	0.2193353	-1.2050590
##	[843,]	-0.6854236	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[844,]	1.0693999	1.0733052	2.2086173	1.6082294	0.3068784

##	[845,]	1.0693999	0.3491648	0.5991631	0.9137823	1.8188158
##	[846,]	1.0693999	-1.0991162	0.5991631	0.2193353	0.3068784
##	[847,]	1.0693999	-0.3749757	-1.0102910	0.2193353	-0.4490903
##	[848,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	1.8188158
##	[849,]	-0.6854236	-1.0991162	-0.2055639	-1.1695589	-0.4490903
##	[850,]	-1.5628354	0.3491648	-1.0102910	-1.1695589	1.0628471
##	[851,]	1.0693999	1.0733052	0.5991631	-0.4751118	-1.2050590
##	[852,]	0.1919881	1.0733052	0.5991631	1.6082294	1.8188158
##	[853,]	0.1919881	-0.3749757	1.4038902	1.6082294	-0.4490903
##	[854,]	-0.6854236	0.3491648	0.5991631	0.2193353	0.3068784
##	[855,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	0.3068784
##	[856,]	-0.6854236	-0.3749757	0.5991631	1.6082294	0.3068784
##	[857,]	1.0693999	-0.3749757	0.5991631	-1.1695589	0.3068784
##	[858,]	0.1919881	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[859,]	1.0693999	-0.3749757	0.5991631	0.9137823	-1.2050590
##	[860,]	0.1919881	-1.0991162	-0.2055639	1.6082294	-0.4490903
##	[861,]	0.1919881	-0.3749757	1.4038902	1.6082294	0.3068784
##	[862,]	1.0693999	0.3491648	0.5991631	0.2193353	1.0628471
##	[863,]	1.0693999	-1.0991162	0.5991631	1.6082294	-0.4490903
##	[864,]	0.1919881	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[865,]	0.1919881	0.3491648	0.5991631	0.2193353	-0.4490903
##	[866,]	-0.6854236	0.3491648	-0.2055639	0.2193353	0.3068784
##	[867,]	0.1919881	1.7974457	0.5991631	-0.4751118	0.3068784
##	[868,]	-0.6854236	1.0733052	-0.2055639	0.9137823	-1.2050590
##	[869,]	0.1919881	-0.3749757	-1.0102910	0.2193353	-0.4490903
##	[870,]	1.0693999	1.0733052	-1.0102910	-1.1695589	-0.4490903
##	[871,]	0.1919881	-0.3749757	2.2086173	-0.4751118	0.3068784
##	[872,]	0.1919881	1.0733052	2.2086173	1.6082294	1.8188158
##	[873,]	-1.5628354	1.7974457	-1.0102910	1.6082294	0.3068784
##	[874,]	0.1919881	-0.3749757	-1.0102910	0.9137823	0.3068784
##	[875,]	-0.6854236	-0.3749757	0.5991631	-0.4751118	-1.2050590
##	[876,]	-2.4402471	1.7974457	-1.0102910	1.6082294	0.3068784
##	[877,]	-0.6854236	1.7974457	-1.0102910	1.6082294	0.3068784
##	[878,]	1.0693999	0.3491648	0.5991631	0.9137823	0.3068784
##	[879,]	0.1919881	1.7974457	2.2086173	0.9137823	1.8188158
##	[880,]	-0.6854236	-0.3749757	1.4038902	1.6082294	-0.4490903
##	[881,]	-0.6854236	-0.3749757	1.4038902	0.2193353	-1.2050590
##	[882,]	1.0693999	1.0733052	-1.0102910	-0.4751118	1.0628471
##	[883,]	0.1919881	1.0733052	-1.0102910	-1.1695589	0.3068784
##	[884,]	1.0693999	-0.3749757	1.4038902	-1.1695589	-0.4490903
##	[885,]	1.0693999	-1.0991162	-1.0102910	1.6082294	1.8188158
##	[886,]	0.1919881	1.7974457	2.2086173	0.9137823	-0.4490903
##	[887,]	0.1919881	-1.0991162	-0.2055639	1.6082294	-1.2050590
##	[888,]	-0.6854236	1.0733052	-0.2055639	0.2193353	0.3068784
##	[889,]	0.1919881	1.7974457	0.5991631	-1.1695589	0.3068784
##	[890,]	1.0693999	1.0733052	-0.2055639	0.9137823	1.0628471
##	[891,]	-0.6854236	-1.0991162	1.4038902	1.6082294	-1.2050590
##	[892,]	-0.6854236	-0.3749757	-0.2055639	0.9137823	0.3068784
##	[893,]	0.1919881	-1.0991162	-1.0102910	1.6082294	-0.4490903
##	[894,]	0.1919881	0.3491648	-0.2055639	0.2193353	-0.4490903

##	[895,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	1.0628471
##	[896,]	-0.6854236	-0.3749757	-1.0102910	-0.4751118	-0.4490903
##	[897,]	0.1919881	-1.0991162	-0.2055639	-0.4751118	1.0628471
##	[898,]	-0.6854236	-0.3749757	1.4038902	0.2193353	-0.4490903
##	[899,]	-0.6854236	-0.3749757	-1.0102910	-1.1695589	1.8188158
##	[900,]	-0.6854236	-1.0991162	1.4038902	0.9137823	-1.2050590
##	[901,]	0.1919881	-0.3749757	2.2086173	-0.4751118	-0.4490903
##	[902,]	-1.5628354	-1.0991162	0.5991631	-1.1695589	-0.4490903
##	[903,]	-2.4402471	-0.3749757	1.4038902	-1.1695589	-1.2050590
##	[904,]	0.1919881	0.3491648	-1.0102910	0.2193353	-0.4490903
##	[905,]	1.0693999	-0.3749757	-0.2055639	0.2193353	1.8188158
##	[906,]	1.0693999	0.3491648	2.2086173	1.6082294	0.3068784
##	[907,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	-0.4490903
##	[908,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	1.0628471
##	[909,]	-0.6854236	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[910,]	1.0693999	1.0733052	1.4038902	0.2193353	0.3068784
##	[911,]	1.0693999	0.3491648	1.4038902	0.9137823	1.8188158
##	[912,]	-0.6854236	-1.0991162	1.4038902	0.9137823	-0.4490903
##	[913,]	-0.6854236	0.3491648	-0.2055639	0.9137823	-0.4490903
##	[914,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	1.8188158
##	[915,]	1.0693999	0.3491648	1.4038902	-0.4751118	1.0628471
##	[916,]	0.1919881	-1.0991162	-0.2055639	0.2193353	0.3068784
##	[917,]	-1.5628354	-1.0991162	1.4038902	0.9137823	-0.4490903
##	[918,]	0.1919881	-1.0991162	-1.0102910	0.9137823	0.3068784
##	[919,]	-0.6854236	-1.0991162	-0.2055639	-1.1695589	1.8188158
##	[920,]	0.1919881	-0.3749757	2.2086173	-1.1695589	1.8188158
##	[921,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[922,]	-1.5628354	0.3491648	-0.2055639	0.9137823	0.3068784
##	[923,]	1.0693999	0.3491648	1.4038902	1.6082294	-0.4490903
##	[924,]	1.0693999	0.3491648	-1.0102910	-1.1695589	1.8188158
##	[925,]	1.0693999	-0.3749757	-1.0102910	-0.4751118	1.8188158
##	[926,]	0.1919881	-0.3749757	-1.0102910	-0.4751118	0.3068784
##	[927,]	-0.6854236	-1.0991162	-1.0102910	1.6082294	-0.4490903
##	[928,]	0.1919881	0.3491648	-0.2055639	1.6082294	0.3068784
##	[929,]	0.1919881	0.3491648	-0.2055639	-1.1695589	0.3068784
##	[930,]	-2.4402471	0.3491648	1.4038902	-1.1695589	1.0628471
##	[931,]	-0.6854236	0.3491648	-0.2055639	0.9137823	0.3068784
##	[932,]	0.1919881	-0.3749757	-0.2055639	0.2193353	0.3068784
##	[933,]	-0.6854236	0.3491648	-0.2055639	0.2193353	0.3068784
##	[934,]	0.1919881	0.3491648	0.5991631	-1.1695589	-0.4490903
##	[935,]	1.0693999	-0.3749757	-0.2055639	0.2193353	-0.4490903
##	[936,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[937,]	0.1919881	-0.3749757	-1.0102910	-0.4751118	-0.4490903
##	[938,]	0.1919881	0.3491648	-0.2055639	0.2193353	0.3068784
##	[939,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	1.8188158
##	[940,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	1.0628471
##	[941,]	-0.6854236	-1.0991162	-1.0102910	-1.1695589	-0.4490903
##	[942,]	1.0693999	0.3491648	-0.2055639	-1.1695589	1.8188158
##	[943,]	1.0693999	-1.0991162	-0.2055639	-1.1695589	-1.2050590
##	[944,]	-0.6854236	-0.3749757	2.2086173	1.6082294	-0.4490903

##	[945,]	-1.5628354	0.3491648	-0.2055639	0.9137823	0.3068784
##	[946,]	0.1919881	-1.0991162	0.5991631	0.2193353	-1.2050590
##	[947,]	1.0693999	0.3491648	0.5991631	1.6082294	-0.4490903
##	[948,]	-0.6854236	-0.3749757	-0.2055639	-1.1695589	0.3068784
##	[949,]	0.1919881	1.7974457	-1.0102910	-0.4751118	0.3068784
##	[950,]	-0.6854236	-1.0991162	-1.0102910	0.9137823	-0.4490903
##	[951,]	-0.6854236	-1.0991162	0.5991631	0.2193353	-1.2050590
##	[952,]	-1.5628354	-1.0991162	-0.2055639	1.6082294	-1.2050590
##	[953,]	1.0693999	-1.0991162	-1.0102910	0.2193353	-1.2050590
##	[954,]	1.0693999	1.7974457	0.5991631	0.2193353	-1.2050590
##	[955,]	0.1919881	0.3491648	0.5991631	-0.4751118	0.3068784
##	[956,]	-2.4402471	-0.3749757	1.4038902	-1.1695589	-0.4490903
##	[957,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[958,]	-2.4402471	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[959,]	1.0693999	1.7974457	-1.0102910	-0.4751118	-0.4490903
##	[960,]	0.1919881	0.3491648	-1.0102910	-1.1695589	-1.2050590
##	[961,]	1.0693999	-0.3749757	1.4038902	0.2193353	1.0628471
##	[962,]	-0.6854236	1.7974457	1.4038902	0.9137823	-0.4490903
##	[963,]	1.0693999	0.3491648	-1.0102910	0.2193353	0.3068784
##	[964,]	-1.5628354	-0.3749757	0.5991631	1.6082294	-0.4490903
##	[965,]	0.1919881	0.3491648	0.5991631	0.2193353	0.3068784
##	[966,]	1.0693999	-1.0991162	-0.2055639	-0.4751118	0.3068784
##	[967,]	1.0693999	1.7974457	2.2086173	-1.1695589	1.8188158
##	[968,]	-0.6854236	0.3491648	-0.2055639	0.9137823	1.8188158
##	[969,]	-1.5628354	-0.3749757	-1.0102910	0.2193353	-1.2050590
##	[970,]	0.1919881	-1.0991162	-0.2055639	-0.4751118	-1.2050590
##	[971,]	1.0693999	-1.0991162	-1.0102910	1.6082294	1.0628471
##	[972,]	1.0693999	-0.3749757	-0.2055639	0.9137823	0.3068784
##	[973,]	1.0693999	1.7974457	0.5991631	0.2193353	1.0628471
##	[974,]	-2.4402471	-1.0991162	-1.0102910	-1.1695589	1.0628471
##	[975,]	1.0693999	0.3491648	0.5991631	-0.4751118	0.3068784
##	[976,]	1.0693999	0.3491648	-0.2055639	-1.1695589	1.8188158
##	[977,]	1.0693999	0.3491648	-0.2055639	0.9137823	-0.4490903
##	[978,]	0.1919881	-1.0991162	-1.0102910	0.2193353	-0.4490903
##	[979,]	0.1919881	-0.3749757	0.5991631	-1.1695589	0.3068784
##	[980,]	1.0693999	0.3491648	2.2086173	0.9137823	0.3068784
##	[981,]	-1.5628354	-1.0991162	0.5991631	-0.4751118	1.0628471
##	[982,]	-1.5628354	-1.0991162	-1.0102910	-1.1695589	1.0628471
##	[983,]	0.1919881	-0.3749757	-1.0102910	0.9137823	0.3068784
##	[984,]	-1.5628354	-1.0991162	-0.2055639	-1.1695589	0.3068784
##	[985,]	-1.5628354	-1.0991162	-1.0102910	-0.4751118	0.3068784
##	[986,]	0.1919881	-1.0991162	-1.0102910	-1.1695589	1.0628471
##	[987,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	1.0628471
##	[988,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	1.0628471
##	[989,]	1.0693999	1.7974457	0.5991631	-0.4751118	0.3068784
##	[990,]	1.0693999	1.0733052	0.5991631	0.2193353	1.0628471
##	[991,]	-0.6854236	-0.3749757	-0.2055639	0.9137823	-1.2050590
##	[992,]	0.1919881	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[993,]	-1.5628354	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[994,]	1.0693999	-1.0991162	1.4038902	-1.1695589	-0.4490903

##	[995,]	-0.6854236	0.3491648	0.5991631	-0.4751118	1.0628471
##	[996,]	1.0693999	-1.0991162	1.4038902	0.9137823	-0.4490903
##	[997,]	-0.6854236	-0.3749757	-1.0102910	-1.1695589	-0.4490903
##	[998,]	1.0693999	0.3491648	0.5991631	0.2193353	1.8188158
##	[999,]	1.0693999	0.3491648	-0.2055639	-1.1695589	-1.2050590
##	[1000,]	1.0693999	0.3491648	-0.2055639	0.2193353	0.3068784
##	[1001,]	-1.5628354	0.3491648	-0.2055639	-1.1695589	-1.2050590
##	[1002,]	-2.4402471	-1.0991162	0.5991631	-0.4751118	-0.4490903
##	[1003,]	-0.6854236	-1.0991162	-1.0102910	-0.4751118	-1.2050590
##	[1004,]	0.1919881	-0.3749757	-0.2055639	-1.1695589	-1.2050590
##	[1005,]	0.1919881	0.3491648	-0.2055639	-0.4751118	0.3068784
##	[1006,]	1.0693999	-0.3749757	-1.0102910	-1.1695589	1.8188158
##	[1007,]	-1.5628354	-1.0991162	-1.0102910	1.6082294	-1.2050590
##	[1008,]	1.0693999	-1.0991162	-1.0102910	-1.1695589	-1.2050590
##	[1009,]	1.0693999	0.3491648	-1.0102910	-1.1695589	1.8188158
##	[1010,]	0.1919881	1.7974457	-1.0102910	0.2193353	-1.2050590
##		Religion	Countryside..outdoors	Dancing	Musical.instruments	
##	[1,]	-0.9652426	1.0942820	0.3673575	0.4472073	
##	[2,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263	
##	[3,]	2.0600329	1.0942820	1.7440961	1.7698410	
##	[4,]	1.3037140	-2.2498173	-1.0093811	-0.8754263	
##	[5,]	1.3037140	0.2582572	-1.0093811	0.4472073	
##	[6,]	-0.2089237	1.0942820	-1.0093811	1.7698410	
##	[7,]	-0.9652426	0.2582572	0.3673575	-0.2141095	
##	[8,]	-0.2089237	-1.4137925	-1.0093811	-0.8754263	
##	[9,]	-0.2089237	0.2582572	-1.0093811	-0.2141095	
##	[10,]	1.3037140	0.2582572	1.7440961	0.4472073	
##	[11,]	-0.2089237	0.2582572	-1.0093811	-0.8754263	
##	[12,]	-0.9652426	1.0942820	-1.0093811	-0.8754263	
##	[13,]	-0.9652426	1.0942820	0.3673575	1.1085242	
##	[14,]	-0.9652426	1.0942820	0.3673575	0.4472073	
##	[15,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263	
##	[16,]	-0.9652426	1.0942820	-1.0093811	1.7698410	
##	[17,]	-0.2089237	1.0942820	-0.3210118	-0.2141095	
##	[18,]	-0.9652426	1.0942820	0.3673575	-0.8754263	
##	[19,]	-0.9652426	-0.5777676	0.3673575	-0.8754263	
##	[20,]	-0.9652426	0.2582572	-1.0093811	1.7698410	
##	[21,]	-0.9652426	1.0942820	-1.0093811	1.7698410	
##	[22,]	-0.9652426	0.2582572	-1.0093811	-0.2141095	
##	[23,]	1.3037140	0.2582572	0.3673575	-0.2141095	
##	[24,]	-0.2089237	-0.5777676	1.7440961	1.7698410	
##	[25,]	-0.2089237	1.0942820	1.7440961	1.1085242	
##	[26,]	-0.9652426	-1.4137925	1.0557268	-0.8754263	
##	[27,]	1.3037140	1.0942820	0.3673575	-0.2141095	
##	[28,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263	
##	[29,]	-0.9652426	-0.5777676	0.3673575	-0.8754263	
##	[30,]	-0.2089237	1.0942820	1.0557268	-0.2141095	
##	[31,]	-0.2089237	0.2582572	-1.0093811	-0.8754263	
##	[32,]	-0.9652426	1.0942820	1.0557268	-0.8754263	
##	[33,]	-0.2089237	-1.4137925	-1.0093811	-0.2141095	

##	[34,]	-0.9652426	1.0942820	0.3673575	0.4472073
##	[35,]	2.0600329	1.0942820	-0.3210118	0.4472073
##	[36,]	0.5473952	-0.5777676	1.0557268	-0.8754263
##	[37,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
##	[38,]	2.0600329	1.0942820	-1.0093811	1.7698410
##	[39,]	-0.2089237	0.2582572	1.7440961	0.4472073
##	[40,]	0.5473952	1.0942820	-1.0093811	-0.2141095
##	[41,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[42,]	2.0600329	1.0942820	-0.3210118	1.1085242
##	[43,]	-0.2089237	-0.5777676	-1.0093811	-0.2141095
##	[44,]	-0.9652426	-0.5777676	-0.3210118	-0.2141095
##	[45,]	1.3037140	-0.5777676	0.3673575	-0.8754263
##	[46,]	1.3037140	-1.4137925	1.7440961	1.7698410
##	[47,]	1.3037140	1.0942820	0.3673575	1.1085242
##	[48,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[49,]	-0.2089237	0.2582572	1.7440961	-0.2141095
##	[50,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[51,]	1.3037140	-0.5777676	-1.0093811	-0.8754263
##	[52,]	0.5473952	-0.5777676	1.7440961	-0.2141095
##	[53,]	-0.2089237	1.0942820	1.7440961	1.7698410
##	[54,]	2.0600329	0.2582572	1.7440961	1.1085242
##	[55,]	-0.2089237	1.0942820	1.0557268	1.1085242
##	[56,]	-0.2089237	0.2582572	1.0557268	-0.2141095
##	[57,]	-0.2089237	-0.5777676	-0.3210118	-0.8754263
##	[58,]	1.3037140	1.0942820	-0.3210118	-0.2141095
##	[59,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[60,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[61,]	1.3037140	0.2582572	-0.3210118	1.7698410
##	[62,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[63,]	-0.9652426	0.2582572	-1.0093811	-0.2141095
##	[64,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[65,]	-0.9652426	-2.2498173	-0.3210118	-0.8754263
##	[66,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[67,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[68,]	-0.2089237	-0.5777676	1.7440961	-0.2141095
##	[69,]	2.0600329	0.2582572	-1.0093811	-0.2141095
##	[70,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
##	[71,]	-0.9652426	1.0942820	-0.3210118	-0.8754263
##	[72,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[73,]	-0.2089237	1.0942820	0.3673575	0.4472073
##	[74,]	2.0600329	1.0942820	1.7440961	0.4472073
##	[75,]	-0.2089237	1.0942820	-1.0093811	1.7698410
##	[76,]	2.0600329	1.0942820	-0.3210118	1.7698410
##	[77,]	-0.2089237	-0.5777676	0.3673575	-0.8754263
##	[78,]	-0.9652426	1.0942820	1.7440961	-0.8754263
##	[79,]	-0.9652426	1.0942820	1.7440961	-0.2141095
##	[80,]	-0.9652426	0.2582572	0.3673575	-0.2141095
##	[81,]	-0.9652426	0.2582572	1.7440961	-0.2141095
##	[82,]	-0.2089237	-0.5777676	1.7440961	-0.8754263
##	[83,]	1.3037140	1.0942820	-1.0093811	0.4472073

##	[84,]	-0.9652426	1.0942820	0.3673575	-0.8754263
##	[85,]	0.5473952	1.0942820	-1.0093811	-0.8754263
##	[86,]	-0.9652426	1.0942820	-0.3210118	1.1085242
##	[87,]	2.0600329	1.0942820	1.0557268	1.1085242
##	[88,]	-0.2089237	-0.5777676	1.7440961	-0.8754263
##	[89,]	2.0600329	-0.5777676	1.0557268	-0.8754263
##	[90,]	0.5473952	-0.5777676	-0.3210118	-0.8754263
##	[91,]	1.3037140	0.2582572	-1.0093811	0.4472073
##	[92,]	-0.9652426	1.0942820	1.7440961	-0.8754263
##	[93,]	1.3037140	1.0942820	0.3673575	-0.2141095
##	[94,]	-0.9652426	0.2582572	-1.0093811	-0.2141095
##	[95,]	-0.2089237	0.2582572	-1.0093811	-0.2141095
##	[96,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[97,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[98,]	1.3037140	0.2582572	-1.0093811	-0.8754263
##	[99,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[100,]	-0.2089237	1.0942820	0.3673575	-0.8754263
##	[101,]	1.3037140	0.2582572	-1.0093811	1.1085242
##	[102,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[103,]	-0.2089237	1.0942820	1.0557268	1.1085242
##	[104,]	2.0600329	0.2582572	1.0557268	1.1085242
##	[105,]	0.5473952	-0.5777676	-0.3210118	-0.2141095
##	[106,]	0.5473952	1.0942820	-1.0093811	-0.8754263
##	[107,]	-0.2089237	0.2582572	-0.3210118	-0.8754263
##	[108,]	1.3037140	0.2582572	-0.3210118	-0.8754263
##	[109,]	-0.9652426	-2.2498173	-1.0093811	1.7698410
##	[110,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[111,]	-0.2089237	1.0942820	-1.0093811	-0.8754263
##	[112,]	0.5473952	1.0942820	0.3673575	-0.2141095
##	[113,]	0.5473952	0.2582572	1.7440961	-0.2141095
##	[114,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[115,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[116,]	-0.2089237	0.2582572	1.7440961	0.4472073
##	[117,]	-0.2089237	-0.5777676	-1.0093811	1.7698410
##	[118,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[119,]	-0.9652426	1.0942820	-1.0093811	-0.2141095
##	[120,]	-0.2089237	0.2582572	-1.0093811	0.4472073
##	[121,]	-0.2089237	1.0942820	1.0557268	0.4472073
##	[122,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[123,]	0.5473952	0.2582572	-0.3210118	-0.2141095
##	[124,]	1.3037140	0.2582572	-1.0093811	1.7698410
##	[125,]	0.5473952	1.0942820	-0.3210118	1.7698410
##	[126,]	-0.2089237	1.0942820	1.0557268	1.7698410
##	[127,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[128,]	1.3037140	0.2582572	-1.0093811	-0.8754263
##	[129,]	2.0600329	1.0942820	1.7440961	1.7698410
##	[130,]	2.0600329	-0.5777676	-0.3210118	-0.8754263
##	[131,]	0.5473952	0.2582572	-0.3210118	-0.8754263
##	[132,]	-0.9652426	1.0942820	-0.3210118	-0.8754263
##	[133,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263

## [134,]	2.0600329	1.0942820	1.7440961	1.7698410
## [135,]	-0.9652426	-0.5777676	0.3673575	-0.2141095
## [136,]	-0.2089237	0.2582572	-1.0093811	0.4472073
## [137,]	2.0600329	-0.5777676	1.0557268	-0.8754263
## [138,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
## [139,]	2.0600329	1.0942820	-0.3210118	1.7698410
## [140,]	0.5473952	1.0942820	1.7440961	1.7698410
## [141,]	2.0600329	1.0942820	-1.0093811	1.1085242
## [142,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
## [143,]	-0.9652426	1.0942820	1.7440961	-0.8754263
## [144,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
## [145,]	-0.9652426	1.0942820	0.3673575	0.4472073
## [146,]	0.5473952	-1.4137925	-1.0093811	-0.2141095
## [147,]	2.0600329	1.0942820	-1.0093811	-0.8754263
## [148,]	0.5473952	1.0942820	-1.0093811	-0.8754263
## [149,]	2.0600329	0.2582572	0.3673575	-0.2141095
## [150,]	0.5473952	0.2582572	-1.0093811	-0.8754263
## [151,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
## [152,]	1.3037140	-1.4137925	-1.0093811	-0.8754263
## [153,]	-0.2089237	-2.2498173	-1.0093811	-0.8754263
## [154,]	1.3037140	-0.5777676	-1.0093811	-0.8754263
## [155,]	-0.2089237	-0.5777676	-1.0093811	0.4472073
## [156,]	-0.9652426	-0.5777676	1.0557268	1.7698410
## [157,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
## [158,]	1.3037140	1.0942820	-1.0093811	-0.8754263
## [159,]	-0.9652426	1.0942820	-0.3210118	1.7698410
## [160,]	1.3037140	1.0942820	0.3673575	1.1085242
## [161,]	-0.9652426	-1.4137925	1.0557268	1.7698410
## [162,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
## [163,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
## [164,]	2.0600329	-2.2498173	-0.3210118	-0.8754263
## [165,]	-0.2089237	-2.2498173	-1.0093811	-0.8754263
## [166,]	0.5473952	1.0942820	1.0557268	1.1085242
## [167,]	-0.9652426	0.2582572	-1.0093811	0.4472073
## [168,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
## [169,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
## [170,]	-0.2089237	-0.5777676	-1.0093811	1.1085242
## [171,]	0.5473952	1.0942820	-0.3210118	1.7698410
## [172,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
## [173,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
## [174,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
## [175,]	2.0600329	1.0942820	1.7440961	1.7698410
## [176,]	-0.9652426	0.2582572	-1.0093811	1.7698410
## [177,]	-0.9652426	1.0942820	-0.3210118	-0.2141095
## [178,]	-0.9652426	1.0942820	-1.0093811	0.4472073
## [179,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
## [180,]	1.3037140	1.0942820	0.3673575	1.1085242
## [181,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
## [182,]	1.3037140	-0.5777676	-0.3210118	-0.2141095
## [183,]	-0.2089237	0.2582572	-1.0093811	-0.8754263

##	[184,]	-0.9652426	1.0942820	0.3673575	-0.8754263
##	[185,]	0.5473952	-2.2498173	-0.3210118	-0.8754263
##	[186,]	2.0600329	1.0942820	-1.0093811	-0.2141095
##	[187,]	0.5473952	0.2582572	0.3673575	-0.2141095
##	[188,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[189,]	2.0600329	1.0942820	-0.3210118	-0.2141095
##	[190,]	-0.2089237	0.2582572	0.3673575	-0.8754263
##	[191,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[192,]	-0.9652426	-0.5777676	1.0557268	1.7698410
##	[193,]	-0.9652426	-0.5777676	1.0557268	-0.8754263
##	[194,]	0.5473952	0.2582572	-1.0093811	0.4472073
##	[195,]	-0.9652426	-0.5777676	-1.0093811	1.7698410
##	[196,]	-0.2089237	-0.5777676	-0.3210118	-0.2141095
##	[197,]	-0.9652426	1.0942820	0.3673575	-0.8754263
##	[198,]	-0.9652426	1.0942820	1.7440961	-0.8754263
##	[199,]	-0.9652426	0.2582572	-1.0093811	0.4472073
##	[200,]	-0.9652426	0.2582572	1.0557268	-0.2141095
##	[201,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[202,]	-0.9652426	1.0942820	-1.0093811	1.7698410
##	[203,]	-0.9652426	-1.4137925	1.7440961	-0.2141095
##	[204,]	-0.2089237	-0.5777676	1.7440961	-0.8754263
##	[205,]	-0.9652426	-0.5777676	-1.0093811	0.4472073
##	[206,]	1.3037140	0.2582572	1.0557268	0.4472073
##	[207,]	0.5473952	0.2582572	-1.0093811	0.4472073
##	[208,]	-0.2089237	0.2582572	-0.3210118	-0.8754263
##	[209,]	-0.9652426	0.2582572	-0.3210118	0.4472073
##	[210,]	1.3037140	0.2582572	-1.0093811	-0.8754263
##	[211,]	1.3037140	1.0942820	1.0557268	-0.2141095
##	[212,]	-0.9652426	-0.5777676	1.7440961	-0.8754263
##	[213,]	-0.9652426	1.0942820	-0.3210118	1.7698410
##	[214,]	0.5473952	1.0942820	-0.3210118	-0.8754263
##	[215,]	-0.2089237	-1.4137925	-1.0093811	-0.8754263
##	[216,]	-0.9652426	-0.5777676	1.7440961	-0.8754263
##	[217,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[218,]	0.5473952	0.2582572	0.3673575	1.1085242
##	[219,]	-0.2089237	0.2582572	1.7440961	1.7698410
##	[220,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[221,]	-0.2089237	0.2582572	-0.3210118	1.7698410
##	[222,]	-0.9652426	1.0942820	-1.0093811	1.7698410
##	[223,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
##	[224,]	0.5473952	0.2582572	1.7440961	1.1085242
##	[225,]	0.5473952	-2.2498173	-1.0093811	-0.8754263
##	[226,]	0.5473952	0.2582572	0.3673575	0.4472073
##	[227,]	-0.2089237	1.0942820	1.0557268	-0.8754263
##	[228,]	1.3037140	0.2582572	-1.0093811	-0.8754263
##	[229,]	0.5473952	1.0942820	1.0557268	1.1085242
##	[230,]	-0.2089237	1.0942820	-0.3210118	1.1085242
##	[231,]	0.5473952	0.2582572	1.7440961	-0.8754263
##	[232,]	-0.9652426	1.0942820	1.7440961	1.1085242
##	[233,]	-0.9652426	1.0942820	-0.3210118	1.7698410

## [234,]	-0.2089237	0.2582572	1.0557268	-0.8754263
## [235,]	-0.9652426	-1.4137925	-0.3210118	-0.8754263
## [236,]	2.0600329	-1.4137925	-1.0093811	-0.8754263
## [237,]	-0.2089237	-1.4137925	-0.3210118	-0.2141095
## [238,]	-0.9652426	0.2582572	1.0557268	-0.2141095
## [239,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
## [240,]	-0.2089237	-0.5777676	0.3673575	-0.2141095
## [241,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
## [242,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
## [243,]	1.3037140	-0.5777676	-0.3210118	-0.2141095
## [244,]	-0.2089237	-1.4137925	-1.0093811	-0.8754263
## [245,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
## [246,]	-0.9652426	1.0942820	-0.3210118	-0.8754263
## [247,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
## [248,]	-0.9652426	1.0942820	1.7440961	-0.2141095
## [249,]	-0.9652426	-1.4137925	0.3673575	1.1085242
## [250,]	2.0600329	1.0942820	0.3673575	0.4472073
## [251,]	-0.2089237	0.2582572	0.3673575	-0.8754263
## [252,]	-0.2089237	0.2582572	-1.0093811	0.4472073
## [253,]	-0.2089237	0.2582572	0.3673575	0.4472073
## [254,]	2.0600329	1.0942820	-0.3210118	-0.8754263
## [255,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
## [256,]	2.0600329	1.0942820	0.3673575	1.7698410
## [257,]	-0.9652426	-1.4137925	0.3673575	-0.2141095
## [258,]	1.3037140	1.0942820	-0.3210118	-0.2141095
## [259,]	0.5473952	1.0942820	-1.0093811	0.4472073
## [260,]	0.5473952	1.0942820	1.7440961	-0.2141095
## [261,]	0.5473952	-0.5777676	0.3673575	0.4472073
## [262,]	-0.2089237	1.0942820	1.7440961	1.1085242
## [263,]	-0.2089237	1.0942820	0.3673575	1.7698410
## [264,]	-0.9652426	-1.4137925	-0.3210118	-0.8754263
## [265,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
## [266,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
## [267,]	-0.9652426	0.2582572	0.3673575	-0.2141095
## [268,]	1.3037140	1.0942820	1.0557268	1.1085242
## [269,]	-0.9652426	0.2582572	1.7440961	-0.8754263
## [270,]	2.0600329	0.2582572	-1.0093811	-0.2141095
## [271,]	-0.9652426	-1.4137925	-0.3210118	-0.8754263
## [272,]	-0.9652426	0.2582572	0.3673575	-0.8754263
## [273,]	0.5473952	1.0942820	-1.0093811	-0.8754263
## [274,]	-0.9652426	0.2582572	0.3673575	0.4472073
## [275,]	-0.9652426	1.0942820	1.0557268	-0.2141095
## [276,]	0.5473952	-1.4137925	0.3673575	-0.2141095
## [277,]	0.5473952	0.2582572	-0.3210118	1.1085242
## [278,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
## [279,]	-0.2089237	1.0942820	-0.3210118	-0.8754263
## [280,]	0.5473952	-1.4137925	-1.0093811	-0.2141095
## [281,]	0.5473952	0.2582572	1.7440961	1.1085242
## [282,]	-0.9652426	0.2582572	0.3673575	1.7698410
## [283,]	-0.9652426	0.2582572	-1.0093811	-0.8754263

## [284,]	-0.9652426	0.2582572	-0.3210118	-0.2141095
## [285,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
## [286,]	1.3037140	-1.4137925	0.3673575	-0.8754263
## [287,]	-0.9652426	1.0942820	-0.3210118	-0.8754263
## [288,]	-0.2089237	-0.5777676	-0.3210118	-0.2141095
## [289,]	1.3037140	1.0942820	-0.3210118	-0.8754263
## [290,]	-0.9652426	0.2582572	-1.0093811	-0.2141095
## [291,]	2.0600329	-0.5777676	0.3673575	-0.8754263
## [292,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
## [293,]	-0.9652426	-1.4137925	0.3673575	-0.8754263
## [294,]	-0.9652426	0.2582572	-1.0093811	0.4472073
## [295,]	-0.9652426	-0.5777676	1.0557268	-0.8754263
## [296,]	1.3037140	1.0942820	-0.3210118	-0.8754263
## [297,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
## [298,]	1.3037140	-0.5777676	-1.0093811	-0.2141095
## [299,]	-0.2089237	1.0942820	1.7440961	-0.8754263
## [300,]	-0.9652426	-0.5777676	-0.3210118	0.4472073
## [301,]	2.0600329	0.2582572	-1.0093811	1.1085242
## [302,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
## [303,]	2.0600329	0.2582572	1.0557268	-0.2141095
## [304,]	-0.9652426	0.2582572	1.0557268	-0.8754263
## [305,]	-0.2089237	-2.2498173	0.3673575	-0.8754263
## [306,]	0.5473952	1.0942820	1.0557268	1.7698410
## [307,]	-0.2089237	-0.5777676	1.0557268	1.1085242
## [308,]	-0.2089237	1.0942820	-1.0093811	1.7698410
## [309,]	-0.2089237	0.2582572	1.0557268	-0.8754263
## [310,]	-0.9652426	-0.5777676	1.7440961	-0.8754263
## [311,]	-0.2089237	-1.4137925	-0.3210118	-0.8754263
## [312,]	0.5473952	-0.5777676	0.3673575	0.4472073
## [313,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
## [314,]	1.3037140	0.2582572	1.7440961	-0.2141095
## [315,]	1.3037140	1.0942820	-0.3210118	1.7698410
## [316,]	0.5473952	-1.4137925	-0.3210118	-0.8754263
## [317,]	-0.9652426	0.2582572	1.0557268	-0.8754263
## [318,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
## [319,]	2.0600329	-0.5777676	1.7440961	-0.8754263
## [320,]	2.0600329	1.0942820	0.3673575	-0.8754263
## [321,]	0.5473952	1.0942820	0.3673575	1.1085242
## [322,]	0.5473952	0.2582572	1.7440961	1.1085242
## [323,]	-0.2089237	0.2582572	-0.3210118	1.7698410
## [324,]	1.3037140	-0.5777676	-1.0093811	0.4472073
## [325,]	1.3037140	0.2582572	-0.3210118	-0.2141095
## [326,]	0.5473952	0.2582572	0.3673575	0.4472073
## [327,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
## [328,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
## [329,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
## [330,]	-0.2089237	0.2582572	0.3673575	-0.8754263
## [331,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
## [332,]	0.5473952	-0.5777676	1.7440961	0.4472073
## [333,]	2.0600329	1.0942820	1.0557268	-0.8754263

##	[334,]	0.5473952	-0.5777676	-0.3210118	1.7698410
##	[335,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[336,]	1.3037140	0.2582572	1.0557268	1.1085242
##	[337,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[338,]	0.5473952	1.0942820	-0.3210118	-0.8754263
##	[339,]	2.0600329	1.0942820	1.7440961	1.7698410
##	[340,]	-0.2089237	0.2582572	-0.3210118	1.7698410
##	[341,]	2.0600329	-0.5777676	-1.0093811	-0.2141095
##	[342,]	-0.9652426	-0.5777676	1.7440961	0.4472073
##	[343,]	-0.9652426	-1.4137925	1.0557268	-0.2141095
##	[344,]	-0.9652426	1.0942820	1.7440961	-0.2141095
##	[345,]	-0.9652426	0.2582572	-1.0093811	0.4472073
##	[346,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[347,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[348,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[349,]	-0.9652426	1.0942820	1.7440961	1.7698410
##	[350,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[351,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[352,]	0.5473952	1.0942820	0.3673575	1.1085242
##	[353,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[354,]	-0.2089237	-1.4137925	-0.3210118	1.1085242
##	[355,]	2.0600329	1.0942820	0.3673575	1.7698410
##	[356,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[357,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[358,]	-0.9652426	-0.5777676	-1.0093811	0.4472073
##	[359,]	-0.2089237	0.2582572	-0.3210118	-0.2141095
##	[360,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[361,]	-0.9652426	-0.5777676	1.0557268	-0.8754263
##	[362,]	2.0600329	1.0942820	1.0557268	1.7698410
##	[363,]	-0.9652426	-1.4137925	-0.3210118	1.1085242
##	[364,]	-0.2089237	-1.4137925	-0.3210118	1.7698410
##	[365,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[366,]	1.3037140	1.0942820	-1.0093811	0.4472073
##	[367,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[368,]	0.5473952	0.2582572	-0.3210118	-0.8754263
##	[369,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[370,]	-0.9652426	1.0942820	-1.0093811	-0.2141095
##	[371,]	-0.9652426	1.0942820	1.0557268	-0.2141095
##	[372,]	2.0600329	1.0942820	1.7440961	1.7698410
##	[373,]	0.5473952	1.0942820	-1.0093811	-0.8754263
##	[374,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[375,]	-0.9652426	0.2582572	0.3673575	-0.8754263
##	[376,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[377,]	-0.9652426	-0.5777676	1.0557268	-0.8754263
##	[378,]	1.3037140	0.2582572	-0.3210118	1.1085242
##	[379,]	-0.9652426	1.0942820	1.7440961	-0.2141095
##	[380,]	1.3037140	0.2582572	1.7440961	1.7698410
##	[381,]	-0.2089237	-0.5777676	1.0557268	1.7698410
##	[382,]	-0.9652426	-2.2498173	-0.3210118	-0.8754263
##	[383,]	-0.9652426	0.2582572	1.7440961	-0.8754263

##	[384,]	-0.9652426	-1.4137925	-1.0093811	-0.2141095
##	[385,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[386,]	-0.9652426	1.0942820	0.3673575	0.4472073
##	[387,]	0.5473952	-1.4137925	-0.3210118	0.4472073
##	[388,]	0.5473952	-0.5777676	0.3673575	-0.2141095
##	[389,]	2.0600329	0.2582572	0.3673575	1.7698410
##	[390,]	-0.9652426	0.2582572	-0.3210118	1.1085242
##	[391,]	1.3037140	0.2582572	-0.3210118	-0.2141095
##	[392,]	0.5473952	1.0942820	0.3673575	-0.8754263
##	[393,]	-0.2089237	-0.5777676	0.3673575	-0.8754263
##	[394,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[395,]	-0.2089237	-0.5777676	-1.0093811	1.1085242
##	[396,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[397,]	-0.9652426	-0.5777676	-1.0093811	1.7698410
##	[398,]	1.3037140	-0.5777676	-0.3210118	0.4472073
##	[399,]	1.3037140	1.0942820	1.7440961	-0.8754263
##	[400,]	2.0600329	1.0942820	0.3673575	1.7698410
##	[401,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[402,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[403,]	0.5473952	1.0942820	-1.0093811	-0.8754263
##	[404,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[405,]	2.0600329	1.0942820	-1.0093811	1.7698410
##	[406,]	2.0600329	1.0942820	-0.3210118	-0.2141095
##	[407,]	2.0600329	1.0942820	0.3673575	1.7698410
##	[408,]	0.5473952	0.2582572	1.0557268	-0.8754263
##	[409,]	2.0600329	1.0942820	0.3673575	1.7698410
##	[410,]	-0.2089237	1.0942820	1.7440961	-0.2141095
##	[411,]	-0.9652426	-1.4137925	-1.0093811	1.7698410
##	[412,]	0.5473952	0.2582572	1.0557268	1.7698410
##	[413,]	0.5473952	1.0942820	-1.0093811	-0.8754263
##	[414,]	0.5473952	0.2582572	-1.0093811	-0.8754263
##	[415,]	0.5473952	-1.4137925	-1.0093811	-0.8754263
##	[416,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
##	[417,]	0.5473952	0.2582572	1.0557268	1.1085242
##	[418,]	1.3037140	0.2582572	-1.0093811	-0.8754263
##	[419,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[420,]	2.0600329	-1.4137925	1.0557268	-0.2141095
##	[421,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[422,]	-0.2089237	0.2582572	1.7440961	-0.8754263
##	[423,]	-0.9652426	1.0942820	1.7440961	-0.2141095
##	[424,]	1.3037140	1.0942820	-0.3210118	-0.8754263
##	[425,]	-0.9652426	1.0942820	0.3673575	-0.8754263
##	[426,]	0.5473952	1.0942820	1.7440961	-0.8754263
##	[427,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[428,]	0.5473952	0.2582572	-1.0093811	-0.8754263
##	[429,]	-0.2089237	0.2582572	1.0557268	1.7698410
##	[430,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[431,]	2.0600329	1.0942820	1.0557268	-0.2141095
##	[432,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
##	[433,]	-0.9652426	0.2582572	-1.0093811	1.7698410

##	[434,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[435,]	-0.9652426	0.2582572	1.7440961	-0.8754263
##	[436,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
##	[437,]	0.5473952	-0.5777676	1.7440961	-0.8754263
##	[438,]	-0.9652426	-2.2498173	-0.3210118	-0.2141095
##	[439,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[440,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[441,]	-0.9652426	-0.5777676	1.0557268	-0.2141095
##	[442,]	-0.9652426	0.2582572	1.7440961	-0.8754263
##	[443,]	0.5473952	-0.5777676	-0.3210118	1.7698410
##	[444,]	2.0600329	-0.5777676	-0.3210118	-0.8754263
##	[445,]	-0.2089237	1.0942820	0.3673575	-0.8754263
##	[446,]	-0.9652426	0.2582572	1.7440961	-0.8754263
##	[447,]	-0.9652426	-2.2498173	-1.0093811	0.4472073
##	[448,]	2.0600329	0.2582572	-1.0093811	1.1085242
##	[449,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[450,]	-0.2089237	0.2582572	0.3673575	-0.8754263
##	[451,]	-0.2089237	-2.2498173	-0.3210118	-0.8754263
##	[452,]	-0.2089237	0.2582572	1.0557268	-0.8754263
##	[453,]	0.5473952	1.0942820	1.7440961	-0.8754263
##	[454,]	-0.2089237	0.2582572	0.3673575	-0.8754263
##	[455,]	-0.9652426	0.2582572	-0.3210118	1.7698410
##	[456,]	0.5473952	0.2582572	1.0557268	0.4472073
##	[457,]	1.3037140	-1.4137925	-1.0093811	-0.8754263
##	[458,]	0.5473952	0.2582572	-0.3210118	-0.2141095
##	[459,]	2.0600329	1.0942820	1.7440961	1.7698410
##	[460,]	1.3037140	0.2582572	-0.3210118	1.1085242
##	[461,]	2.0600329	-2.2498173	-1.0093811	-0.8754263
##	[462,]	0.5473952	0.2582572	0.3673575	-0.2141095
##	[463,]	-0.9652426	0.2582572	-1.0093811	0.4472073
##	[464,]	2.0600329	1.0942820	-1.0093811	-0.8754263
##	[465,]	0.5473952	1.0942820	-1.0093811	-0.8754263
##	[466,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[467,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[468,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[469,]	1.3037140	-0.5777676	-1.0093811	-0.8754263
##	[470,]	0.5473952	1.0942820	0.3673575	-0.8754263
##	[471,]	1.3037140	-0.5777676	-1.0093811	0.4472073
##	[472,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[473,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[474,]	0.5473952	0.2582572	-1.0093811	1.1085242
##	[475,]	0.5473952	-0.5777676	-1.0093811	1.7698410
##	[476,]	-0.2089237	0.2582572	-0.3210118	1.7698410
##	[477,]	-0.2089237	-0.5777676	-0.3210118	-0.8754263
##	[478,]	-0.9652426	-0.5777676	-0.3210118	1.1085242
##	[479,]	1.3037140	-0.5777676	1.0557268	0.4472073
##	[480,]	-0.2089237	-0.5777676	-0.3210118	1.1085242
##	[481,]	-0.2089237	0.2582572	1.0557268	0.4472073
##	[482,]	0.5473952	0.2582572	-1.0093811	1.1085242
##	[483,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263

##	[484,]	-0.2089237	-2.2498173	-0.3210118	-0.2141095
##	[485,]	-0.9652426	-0.5777676	-1.0093811	0.4472073
##	[486,]	0.5473952	1.0942820	-1.0093811	-0.8754263
##	[487,]	-0.2089237	-0.5777676	1.0557268	-0.8754263
##	[488,]	2.0600329	1.0942820	1.7440961	-0.2141095
##	[489,]	-0.9652426	1.0942820	-1.0093811	1.1085242
##	[490,]	-0.2089237	-1.4137925	0.3673575	-0.8754263
##	[491,]	0.5473952	-1.4137925	1.0557268	-0.8754263
##	[492,]	-0.2089237	-0.5777676	1.7440961	0.4472073
##	[493,]	1.3037140	0.2582572	1.7440961	1.1085242
##	[494,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
##	[495,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
##	[496,]	-0.2089237	-0.5777676	0.3673575	0.4472073
##	[497,]	0.5473952	1.0942820	-0.3210118	-0.2141095
##	[498,]	0.5473952	-1.4137925	0.3673575	1.7698410
##	[499,]	0.5473952	1.0942820	1.0557268	1.1085242
##	[500,]	-0.9652426	-0.5777676	-1.0093811	0.4472073
##	[501,]	2.0600329	0.2582572	1.0557268	1.7698410
##	[502,]	1.3037140	0.2582572	0.3673575	1.7698410
##	[503,]	-0.9652426	-1.4137925	-1.0093811	0.4472073
##	[504,]	2.0600329	1.0942820	-1.0093811	1.7698410
##	[505,]	-0.9652426	1.0942820	1.7440961	0.4472073
##	[506,]	-0.9652426	-1.4137925	-0.3210118	-0.8754263
##	[507,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[508,]	-0.2089237	0.2582572	1.7440961	1.7698410
##	[509,]	-0.2089237	1.0942820	-1.0093811	1.7698410
##	[510,]	-0.9652426	0.2582572	1.7440961	1.7698410
##	[511,]	-0.9652426	1.0942820	1.7440961	-0.8754263
##	[512,]	-0.9652426	1.0942820	-1.0093811	-0.2141095
##	[513,]	0.5473952	1.0942820	1.7440961	1.7698410
##	[514,]	-0.9652426	-1.4137925	-0.3210118	-0.8754263
##	[515,]	-0.2089237	0.2582572	-1.0093811	1.7698410
##	[516,]	1.3037140	1.0942820	-1.0093811	-0.2141095
##	[517,]	0.5473952	1.0942820	1.7440961	-0.2141095
##	[518,]	-0.2089237	-0.5777676	1.7440961	-0.8754263
##	[519,]	0.5473952	0.2582572	1.0557268	-0.8754263
##	[520,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[521,]	0.5473952	0.2582572	1.0557268	-0.8754263
##	[522,]	0.5473952	0.2582572	0.3673575	1.7698410
##	[523,]	-0.2089237	0.2582572	0.3673575	-0.8754263
##	[524,]	0.5473952	0.2582572	-0.3210118	-0.8754263
##	[525,]	0.5473952	1.0942820	-0.3210118	-0.8754263
##	[526,]	0.5473952	1.0942820	1.0557268	0.4472073
##	[527,]	-0.2089237	0.2582572	-0.3210118	1.1085242
##	[528,]	0.5473952	0.2582572	1.0557268	1.1085242
##	[529,]	0.5473952	-1.4137925	-1.0093811	-0.8754263
##	[530,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[531,]	2.0600329	0.2582572	1.7440961	-0.2141095
##	[532,]	1.3037140	1.0942820	-0.3210118	-0.8754263
##	[533,]	-0.9652426	0.2582572	1.7440961	-0.2141095

##	[534,]	-0.2089237	0.2582572	-0.3210118	-0.2141095
##	[535,]	-0.9652426	0.2582572	-0.3210118	-0.2141095
##	[536,]	2.0600329	1.0942820	0.3673575	0.4472073
##	[537,]	-0.2089237	-2.2498173	-1.0093811	0.4472073
##	[538,]	0.5473952	1.0942820	-1.0093811	1.1085242
##	[539,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[540,]	-0.2089237	-2.2498173	-1.0093811	1.7698410
##	[541,]	1.3037140	1.0942820	-1.0093811	1.7698410
##	[542,]	-0.2089237	-1.4137925	-0.3210118	-0.8754263
##	[543,]	0.5473952	0.2582572	1.0557268	1.7698410
##	[544,]	-0.2089237	-1.4137925	-1.0093811	-0.8754263
##	[545,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[546,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
##	[547,]	1.3037140	1.0942820	0.3673575	1.7698410
##	[548,]	1.3037140	-0.5777676	-1.0093811	1.7698410
##	[549,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[550,]	-0.9652426	-1.4137925	0.3673575	-0.8754263
##	[551,]	0.5473952	1.0942820	1.7440961	1.7698410
##	[552,]	2.0600329	1.0942820	-1.0093811	1.7698410
##	[553,]	1.3037140	0.2582572	1.7440961	1.7698410
##	[554,]	0.5473952	0.2582572	1.7440961	1.1085242
##	[555,]	1.3037140	1.0942820	1.0557268	0.4472073
##	[556,]	-0.2089237	1.0942820	-0.3210118	-0.8754263
##	[557,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[558,]	-0.9652426	0.2582572	0.3673575	0.4472073
##	[559,]	0.5473952	0.2582572	-0.3210118	-0.8754263
##	[560,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[561,]	1.3037140	1.0942820	1.7440961	1.7698410
##	[562,]	1.3037140	1.0942820	-0.3210118	0.4472073
##	[563,]	-0.9652426	1.0942820	0.3673575	0.4472073
##	[564,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[565,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[566,]	-0.9652426	1.0942820	1.7440961	-0.8754263
##	[567,]	0.5473952	0.2582572	1.7440961	1.7698410
##	[568,]	-0.9652426	-0.5777676	-0.3210118	0.4472073
##	[569,]	-0.9652426	1.0942820	1.0557268	-0.2141095
##	[570,]	-0.2089237	-0.5777676	1.0557268	1.7698410
##	[571,]	-0.9652426	1.0942820	-1.0093811	-0.2141095
##	[572,]	0.5473952	0.2582572	0.3673575	-0.2141095
##	[573,]	-0.9652426	1.0942820	0.3673575	0.4472073
##	[574,]	0.5473952	0.2582572	-1.0093811	-0.8754263
##	[575,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
##	[576,]	-0.2089237	1.0942820	1.0557268	0.4472073
##	[577,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[578,]	-0.9652426	-2.2498173	1.0557268	1.1085242
##	[579,]	-0.9652426	1.0942820	0.3673575	-0.2141095
##	[580,]	-0.9652426	-1.4137925	-1.0093811	-0.2141095
##	[581,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[582,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
##	[583,]	-0.2089237	1.0942820	-0.3210118	-0.8754263

##	[584,]	0.5473952	-0.5777676	0.3673575	0.4472073
##	[585,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[586,]	-0.9652426	-2.2498173	-1.0093811	0.4472073
##	[587,]	2.0600329	0.2582572	-1.0093811	1.7698410
##	[588,]	-0.9652426	1.0942820	-1.0093811	-0.2141095
##	[589,]	-0.9652426	1.0942820	1.7440961	0.4472073
##	[590,]	-0.9652426	1.0942820	0.3673575	1.1085242
##	[591,]	0.5473952	0.2582572	1.7440961	-0.8754263
##	[592,]	-0.2089237	1.0942820	1.7440961	-0.2141095
##	[593,]	-0.9652426	0.2582572	1.7440961	-0.8754263
##	[594,]	-0.9652426	1.0942820	0.3673575	0.4472073
##	[595,]	-0.2089237	0.2582572	-1.0093811	1.7698410
##	[596,]	2.0600329	1.0942820	-1.0093811	-0.8754263
##	[597,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[598,]	-0.2089237	1.0942820	-0.3210118	-0.2141095
##	[599,]	-0.9652426	1.0942820	0.3673575	-0.2141095
##	[600,]	0.5473952	0.2582572	0.3673575	-0.2141095
##	[601,]	-0.9652426	-1.4137925	0.3673575	-0.8754263
##	[602,]	2.0600329	1.0942820	1.7440961	1.7698410
##	[603,]	0.5473952	0.2582572	0.3673575	-0.8754263
##	[604,]	-0.2089237	0.2582572	0.3673575	-0.8754263
##	[605,]	0.5473952	-0.5777676	1.0557268	-0.2141095
##	[606,]	-0.9652426	1.0942820	-1.0093811	1.7698410
##	[607,]	1.3037140	0.2582572	-1.0093811	-0.8754263
##	[608,]	0.5473952	-2.2498173	-0.3210118	-0.8754263
##	[609,]	1.3037140	-1.4137925	1.0557268	-0.2141095
##	[610,]	2.0600329	0.2582572	-1.0093811	0.4472073
##	[611,]	-0.9652426	-2.2498173	-1.0093811	1.1085242
##	[612,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
##	[613,]	-0.9652426	-1.4137925	-1.0093811	1.7698410
##	[614,]	-0.9652426	-1.4137925	-0.3210118	1.1085242
##	[615,]	-0.9652426	1.0942820	0.3673575	-0.8754263
##	[616,]	2.0600329	0.2582572	-1.0093811	1.7698410
##	[617,]	-0.9652426	-2.2498173	-1.0093811	-0.2141095
##	[618,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[619,]	-0.2089237	1.0942820	-1.0093811	1.7698410
##	[620,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[621,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[622,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[623,]	-0.9652426	-0.5777676	0.3673575	-0.2141095
##	[624,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[625,]	-0.9652426	-1.4137925	1.7440961	-0.2141095
##	[626,]	1.3037140	-1.4137925	1.7440961	1.7698410
##	[627,]	-0.2089237	0.2582572	-0.3210118	-0.2141095
##	[628,]	-0.2089237	0.2582572	-0.3210118	0.4472073
##	[629,]	-0.9652426	-2.2498173	-1.0093811	0.4472073
##	[630,]	-0.9652426	1.0942820	0.3673575	-0.8754263
##	[631,]	0.5473952	-0.5777676	1.0557268	1.1085242
##	[632,]	2.0600329	1.0942820	1.7440961	1.7698410
##	[633,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263

##	[634,]	-0.2089237	-0.5777676	-0.3210118	0.4472073
##	[635,]	1.3037140	0.2582572	1.7440961	0.4472073
##	[636,]	-0.2089237	-0.5777676	1.7440961	-0.8754263
##	[637,]	1.3037140	0.2582572	1.7440961	0.4472073
##	[638,]	1.3037140	1.0942820	-0.3210118	-0.8754263
##	[639,]	-0.2089237	1.0942820	-1.0093811	-0.8754263
##	[640,]	-0.9652426	0.2582572	-1.0093811	1.7698410
##	[641,]	-0.2089237	-0.5777676	0.3673575	-0.8754263
##	[642,]	-0.9652426	-0.5777676	-1.0093811	-0.2141095
##	[643,]	-0.9652426	1.0942820	-0.3210118	0.4472073
##	[644,]	0.5473952	1.0942820	1.7440961	0.4472073
##	[645,]	1.3037140	1.0942820	0.3673575	1.7698410
##	[646,]	0.5473952	1.0942820	-0.3210118	-0.2141095
##	[647,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[648,]	0.5473952	1.0942820	0.3673575	-0.8754263
##	[649,]	-0.2089237	1.0942820	1.7440961	1.1085242
##	[650,]	-0.9652426	0.2582572	1.7440961	1.1085242
##	[651,]	-0.9652426	0.2582572	0.3673575	-0.8754263
##	[652,]	-0.2089237	1.0942820	-1.0093811	-0.8754263
##	[653,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[654,]	1.3037140	1.0942820	0.3673575	-0.8754263
##	[655,]	0.5473952	0.2582572	-0.3210118	-0.8754263
##	[656,]	-0.9652426	-0.5777676	-1.0093811	0.4472073
##	[657,]	0.5473952	1.0942820	1.7440961	1.1085242
##	[658,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[659,]	-0.9652426	1.0942820	1.0557268	1.1085242
##	[660,]	-0.9652426	1.0942820	0.3673575	1.7698410
##	[661,]	-0.2089237	1.0942820	-0.3210118	-0.8754263
##	[662,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
##	[663,]	1.3037140	0.2582572	-0.3210118	-0.8754263
##	[664,]	0.5473952	0.2582572	0.3673575	0.4472073
##	[665,]	0.5473952	1.0942820	1.7440961	-0.8754263
##	[666,]	-0.9652426	1.0942820	-0.3210118	-0.2141095
##	[667,]	-0.9652426	1.0942820	-1.0093811	0.4472073
##	[668,]	2.0600329	1.0942820	-0.3210118	0.4472073
##	[669,]	1.3037140	1.0942820	-1.0093811	1.7698410
##	[670,]	-0.2089237	0.2582572	-0.3210118	-0.2141095
##	[671,]	-0.2089237	0.2582572	1.0557268	-0.8754263
##	[672,]	-0.2089237	1.0942820	1.7440961	1.1085242
##	[673,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[674,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[675,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[676,]	-0.2089237	0.2582572	1.7440961	-0.2141095
##	[677,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[678,]	-0.2089237	-0.5777676	0.3673575	-0.2141095
##	[679,]	-0.2089237	1.0942820	-0.3210118	-0.8754263
##	[680,]	1.3037140	1.0942820	-0.3210118	1.1085242
##	[681,]	-0.9652426	1.0942820	1.7440961	-0.8754263
##	[682,]	0.5473952	1.0942820	0.3673575	-0.8754263
##	[683,]	1.3037140	0.2582572	-1.0093811	-0.8754263

##	[684,]	1.3037140	1.0942820	0.3673575	0.4472073
##	[685,]	1.3037140	1.0942820	1.0557268	0.4472073
##	[686,]	-0.2089237	-0.5777676	1.0557268	1.7698410
##	[687,]	0.5473952	-0.5777676	0.3673575	0.4472073
##	[688,]	-0.9652426	0.2582572	0.3673575	0.4472073
##	[689,]	0.5473952	-0.5777676	-0.3210118	-0.8754263
##	[690,]	-0.2089237	-1.4137925	0.3673575	-0.2141095
##	[691,]	-0.9652426	0.2582572	0.3673575	0.4472073
##	[692,]	-0.9652426	-0.5777676	1.0557268	-0.8754263
##	[693,]	1.3037140	0.2582572	-0.3210118	1.7698410
##	[694,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
##	[695,]	2.0600329	0.2582572	0.3673575	1.7698410
##	[696,]	-0.9652426	0.2582572	1.0557268	-0.8754263
##	[697,]	0.5473952	1.0942820	1.7440961	-0.2141095
##	[698,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[699,]	-0.2089237	1.0942820	1.7440961	-0.8754263
##	[700,]	-0.2089237	-0.5777676	1.7440961	-0.2141095
##	[701,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[702,]	-0.2089237	1.0942820	0.3673575	-0.8754263
##	[703,]	2.0600329	-0.5777676	0.3673575	1.1085242
##	[704,]	-0.2089237	0.2582572	-1.0093811	1.1085242
##	[705,]	0.5473952	1.0942820	1.7440961	-0.8754263
##	[706,]	0.5473952	1.0942820	1.0557268	1.7698410
##	[707,]	-0.2089237	0.2582572	0.3673575	-0.8754263
##	[708,]	-0.2089237	1.0942820	-0.3210118	0.4472073
##	[709,]	-0.9652426	-1.4137925	-0.3210118	-0.8754263
##	[710,]	-0.2089237	0.2582572	0.3673575	-0.8754263
##	[711,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[712,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
##	[713,]	2.0600329	0.2582572	-1.0093811	0.4472073
##	[714,]	0.5473952	0.2582572	1.7440961	1.1085242
##	[715,]	0.5473952	1.0942820	1.0557268	-0.8754263
##	[716,]	-0.9652426	-1.4137925	-1.0093811	-0.2141095
##	[717,]	0.5473952	1.0942820	0.3673575	1.1085242
##	[718,]	-0.9652426	1.0942820	0.3673575	-0.2141095
##	[719,]	-0.2089237	1.0942820	-0.3210118	1.7698410
##	[720,]	0.5473952	-2.2498173	-1.0093811	-0.8754263
##	[721,]	2.0600329	1.0942820	-0.3210118	1.1085242
##	[722,]	0.5473952	1.0942820	1.7440961	1.7698410
##	[723,]	-0.9652426	1.0942820	0.3673575	0.4472073
##	[724,]	-0.2089237	0.2582572	-0.3210118	-0.8754263
##	[725,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
##	[726,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
##	[727,]	-0.9652426	-1.4137925	1.7440961	-0.8754263
##	[728,]	-0.9652426	-2.2498173	-1.0093811	1.7698410
##	[729,]	-0.9652426	1.0942820	-0.3210118	-0.8754263
##	[730,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[731,]	0.5473952	1.0942820	0.3673575	1.7698410
##	[732,]	0.5473952	-2.2498173	1.0557268	-0.8754263
##	[733,]	-0.2089237	1.0942820	1.7440961	-0.8754263

##	[734,]	0.5473952	1.0942820	1.7440961	1.7698410
##	[735,]	2.0600329	0.2582572	1.0557268	1.7698410
##	[736,]	2.0600329	0.2582572	-0.3210118	-0.2141095
##	[737,]	1.3037140	0.2582572	1.0557268	0.4472073
##	[738,]	-0.2089237	1.0942820	1.7440961	1.7698410
##	[739,]	0.5473952	-0.5777676	1.0557268	-0.8754263
##	[740,]	2.0600329	0.2582572	0.3673575	0.4472073
##	[741,]	1.3037140	0.2582572	0.3673575	0.4472073
##	[742,]	1.3037140	1.0942820	0.3673575	1.7698410
##	[743,]	2.0600329	1.0942820	1.0557268	0.4472073
##	[744,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[745,]	2.0600329	1.0942820	-1.0093811	1.7698410
##	[746,]	1.3037140	-0.5777676	0.3673575	-0.8754263
##	[747,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[748,]	2.0600329	1.0942820	0.3673575	1.7698410
##	[749,]	0.5473952	0.2582572	1.0557268	1.7698410
##	[750,]	-0.9652426	1.0942820	-1.0093811	1.7698410
##	[751,]	2.0600329	-1.4137925	1.7440961	-0.8754263
##	[752,]	-0.2089237	1.0942820	-0.3210118	1.7698410
##	[753,]	-0.2089237	-2.2498173	1.7440961	-0.8754263
##	[754,]	0.5473952	1.0942820	1.0557268	1.7698410
##	[755,]	1.3037140	-0.5777676	0.3673575	0.4472073
##	[756,]	-0.9652426	0.2582572	0.3673575	-0.8754263
##	[757,]	0.5473952	1.0942820	0.3673575	-0.2141095
##	[758,]	2.0600329	-2.2498173	1.7440961	-0.8754263
##	[759,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[760,]	2.0600329	1.0942820	1.0557268	1.7698410
##	[761,]	1.3037140	1.0942820	1.7440961	-0.8754263
##	[762,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[763,]	0.5473952	0.2582572	-1.0093811	0.4472073
##	[764,]	0.5473952	1.0942820	-0.3210118	1.7698410
##	[765,]	-0.9652426	-1.4137925	0.3673575	-0.2141095
##	[766,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[767,]	-0.2089237	-0.5777676	1.7440961	1.1085242
##	[768,]	0.5473952	0.2582572	1.7440961	1.7698410
##	[769,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[770,]	1.3037140	0.2582572	1.0557268	1.1085242
##	[771,]	1.3037140	1.0942820	1.0557268	0.4472073
##	[772,]	0.5473952	-1.4137925	-1.0093811	-0.8754263
##	[773,]	0.5473952	0.2582572	1.0557268	0.4472073
##	[774,]	-0.2089237	0.2582572	1.0557268	-0.2141095
##	[775,]	0.5473952	1.0942820	1.7440961	-0.8754263
##	[776,]	0.5473952	1.0942820	1.7440961	1.1085242
##	[777,]	0.5473952	1.0942820	0.3673575	1.7698410
##	[778,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[779,]	-0.9652426	0.2582572	-0.3210118	-0.2141095
##	[780,]	1.3037140	1.0942820	1.7440961	-0.8754263
##	[781,]	-0.2089237	-1.4137925	0.3673575	-0.2141095
##	[782,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[783,]	-0.9652426	-0.5777676	-1.0093811	-0.2141095

##	[784,]	0.5473952	0.2582572	-1.0093811	-0.8754263
##	[785,]	-0.9652426	1.0942820	1.7440961	0.4472073
##	[786,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[787,]	0.5473952	1.0942820	-0.3210118	-0.8754263
##	[788,]	0.5473952	0.2582572	-0.3210118	-0.8754263
##	[789,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
##	[790,]	0.5473952	-1.4137925	1.7440961	-0.8754263
##	[791,]	-0.2089237	-0.5777676	1.0557268	0.4472073
##	[792,]	2.0600329	-1.4137925	0.3673575	0.4472073
##	[793,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[794,]	-0.2089237	0.2582572	0.3673575	1.1085242
##	[795,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[796,]	-0.2089237	1.0942820	1.7440961	0.4472073
##	[797,]	0.5473952	1.0942820	1.0557268	1.1085242
##	[798,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[799,]	0.5473952	-1.4137925	1.7440961	1.1085242
##	[800,]	-0.2089237	0.2582572	-0.3210118	0.4472073
##	[801,]	1.3037140	1.0942820	-1.0093811	-0.8754263
##	[802,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[803,]	-0.9652426	0.2582572	1.7440961	-0.2141095
##	[804,]	-0.2089237	0.2582572	-1.0093811	1.1085242
##	[805,]	-0.2089237	0.2582572	-0.3210118	1.7698410
##	[806,]	0.5473952	0.2582572	1.0557268	1.7698410
##	[807,]	-0.2089237	1.0942820	1.0557268	-0.8754263
##	[808,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[809,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[810,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
##	[811,]	0.5473952	1.0942820	0.3673575	1.7698410
##	[812,]	0.5473952	0.2582572	-0.3210118	0.4472073
##	[813,]	-0.9652426	1.0942820	0.3673575	-0.8754263
##	[814,]	-0.2089237	1.0942820	0.3673575	-0.8754263
##	[815,]	1.3037140	1.0942820	1.7440961	0.4472073
##	[816,]	2.0600329	1.0942820	-0.3210118	0.4472073
##	[817,]	1.3037140	1.0942820	0.3673575	1.7698410
##	[818,]	-0.9652426	-0.5777676	0.3673575	1.1085242
##	[819,]	0.5473952	1.0942820	-1.0093811	-0.8754263
##	[820,]	-0.2089237	0.2582572	0.3673575	-0.8754263
##	[821,]	-0.9652426	0.2582572	0.3673575	-0.8754263
##	[822,]	1.3037140	1.0942820	-1.0093811	1.7698410
##	[823,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[824,]	-0.9652426	-1.4137925	-1.0093811	1.1085242
##	[825,]	-0.9652426	-1.4137925	-1.0093811	0.4472073
##	[826,]	-0.9652426	1.0942820	-1.0093811	1.7698410
##	[827,]	0.5473952	0.2582572	-0.3210118	1.7698410
##	[828,]	-0.9652426	0.2582572	-0.3210118	0.4472073
##	[829,]	1.3037140	-0.5777676	-1.0093811	-0.8754263
##	[830,]	2.0600329	-0.5777676	1.7440961	-0.2141095
##	[831,]	0.5473952	1.0942820	1.7440961	1.7698410
##	[832,]	1.3037140	0.2582572	0.3673575	-0.2141095
##	[833,]	1.3037140	0.2582572	-1.0093811	-0.2141095

##	[834,]	-0.9652426	0.2582572	-1.0093811	-0.2141095
##	[835,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[836,]	-0.9652426	1.0942820	-0.3210118	-0.8754263
##	[837,]	-0.9652426	0.2582572	-1.0093811	1.7698410
##	[838,]	1.3037140	1.0942820	1.7440961	1.7698410
##	[839,]	-0.9652426	0.2582572	1.7440961	-0.2141095
##	[840,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
##	[841,]	-0.9652426	-0.5777676	0.3673575	0.4472073
##	[842,]	-0.9652426	-2.2498173	1.7440961	1.7698410
##	[843,]	-0.9652426	-0.5777676	-0.3210118	-0.2141095
##	[844,]	2.0600329	1.0942820	1.0557268	-0.8754263
##	[845,]	2.0600329	1.0942820	1.0557268	1.1085242
##	[846,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[847,]	-0.2089237	-0.5777676	1.7440961	-0.2141095
##	[848,]	0.5473952	0.2582572	1.0557268	-0.8754263
##	[849,]	-0.9652426	-1.4137925	-0.3210118	-0.2141095
##	[850,]	0.5473952	0.2582572	0.3673575	1.1085242
##	[851,]	1.3037140	-0.5777676	-1.0093811	-0.8754263
##	[852,]	0.5473952	1.0942820	0.3673575	-0.2141095
##	[853,]	-0.2089237	-0.5777676	-0.3210118	-0.8754263
##	[854,]	0.5473952	1.0942820	0.3673575	0.4472073
##	[855,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
##	[856,]	0.5473952	1.0942820	-0.3210118	-0.8754263
##	[857,]	-0.9652426	-0.5777676	-1.0093811	-0.2141095
##	[858,]	-0.9652426	0.2582572	0.3673575	0.4472073
##	[859,]	-0.9652426	0.2582572	-0.3210118	1.7698410
##	[860,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[861,]	0.5473952	-0.5777676	-1.0093811	-0.8754263
##	[862,]	-0.9652426	0.2582572	0.3673575	-0.8754263
##	[863,]	-0.9652426	0.2582572	0.3673575	-0.8754263
##	[864,]	-0.2089237	0.2582572	0.3673575	0.4472073
##	[865,]	-0.9652426	-1.4137925	-0.3210118	-0.8754263
##	[866,]	-0.2089237	-0.5777676	0.3673575	-0.8754263
##	[867,]	1.3037140	-1.4137925	-1.0093811	-0.8754263
##	[868,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[869,]	-0.9652426	-0.5777676	0.3673575	-0.2141095
##	[870,]	-0.9652426	1.0942820	0.3673575	0.4472073
##	[871,]	-0.2089237	-0.5777676	-0.3210118	-0.8754263
##	[872,]	0.5473952	0.2582572	-1.0093811	-0.8754263
##	[873,]	0.5473952	-1.4137925	-1.0093811	1.7698410
##	[874,]	-0.9652426	1.0942820	-0.3210118	-0.8754263
##	[875,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[876,]	-0.9652426	1.0942820	-0.3210118	-0.8754263
##	[877,]	-0.9652426	-1.4137925	0.3673575	1.7698410
##	[878,]	2.0600329	1.0942820	1.7440961	1.7698410
##	[879,]	1.3037140	0.2582572	-0.3210118	1.1085242
##	[880,]	-0.2089237	-2.2498173	-0.3210118	-0.2141095
##	[881,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
##	[882,]	-0.9652426	1.0942820	-0.3210118	1.7698410
##	[883,]	-0.2089237	-0.5777676	-1.0093811	0.4472073

## [884,]	-0.9652426	-0.5777676	-0.3210118	-0.8754263
## [885,]	-0.9652426	-0.5777676	0.3673575	-0.8754263
## [886,]	0.5473952	1.0942820	-1.0093811	-0.8754263
## [887,]	0.5473952	-2.2498173	-1.0093811	1.1085242
## [888,]	0.5473952	-1.4137925	0.3673575	-0.2141095
## [889,]	-0.2089237	0.2582572	1.7440961	-0.8754263
## [890,]	-0.2089237	0.2582572	1.0557268	1.7698410
## [891,]	-0.9652426	-0.5777676	-1.0093811	-0.2141095
## [892,]	-0.2089237	-0.5777676	0.3673575	-0.8754263
## [893,]	-0.9652426	-1.4137925	0.3673575	-0.2141095
## [894,]	0.5473952	-1.4137925	-0.3210118	-0.2141095
## [895,]	-0.9652426	1.0942820	1.7440961	-0.8754263
## [896,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
## [897,]	-0.9652426	0.2582572	-1.0093811	-0.2141095
## [898,]	0.5473952	-1.4137925	0.3673575	1.1085242
## [899,]	0.5473952	0.2582572	0.3673575	-0.8754263
## [900,]	0.5473952	-1.4137925	-1.0093811	-0.8754263
## [901,]	1.3037140	-1.4137925	-1.0093811	-0.8754263
## [902,]	-0.2089237	0.2582572	-1.0093811	-0.8754263
## [903,]	0.5473952	1.0942820	-1.0093811	-0.8754263
## [904,]	-0.9652426	-0.5777676	-0.3210118	1.7698410
## [905,]	0.5473952	0.2582572	1.0557268	-0.8754263
## [906,]	-0.2089237	-1.4137925	-1.0093811	-0.8754263
## [907,]	-0.2089237	-0.5777676	0.3673575	-0.8754263
## [908,]	0.5473952	-2.2498173	-0.3210118	-0.8754263
## [909,]	1.3037140	-0.5777676	0.3673575	1.1085242
## [910,]	2.0600329	0.2582572	-0.3210118	1.1085242
## [911,]	-0.2089237	-1.4137925	-1.0093811	1.1085242
## [912,]	-0.9652426	0.2582572	-1.0093811	-0.2141095
## [913,]	0.5473952	0.2582572	-0.3210118	0.4472073
## [914,]	0.5473952	0.2582572	1.0557268	1.1085242
## [915,]	1.3037140	0.2582572	1.7440961	-0.2141095
## [916,]	0.5473952	-1.4137925	-1.0093811	-0.8754263
## [917,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
## [918,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
## [919,]	0.5473952	0.2582572	-0.3210118	-0.8754263
## [920,]	-0.2089237	-1.4137925	1.7440961	1.7698410
## [921,]	-0.2089237	-1.4137925	-1.0093811	-0.8754263
## [922,]	-0.2089237	-0.5777676	-0.3210118	1.1085242
## [923,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
## [924,]	-0.9652426	-0.5777676	0.3673575	0.4472073
## [925,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
## [926,]	-0.9652426	-0.5777676	1.7440961	-0.2141095
## [927,]	0.5473952	0.2582572	-1.0093811	-0.8754263
## [928,]	0.5473952	-0.5777676	1.0557268	-0.8754263
## [929,]	-0.2089237	0.2582572	-0.3210118	0.4472073
## [930,]	-0.2089237	-0.5777676	1.0557268	1.1085242
## [931,]	0.5473952	0.2582572	-0.3210118	1.1085242
## [932,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
## [933,]	-0.9652426	1.0942820	0.3673575	-0.8754263

##	[934,]	-0.2089237	-1.4137925	-0.3210118	1.1085242
##	[935,]	-0.9652426	-1.4137925	-1.0093811	-0.8754263
##	[936,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[937,]	-0.2089237	-0.5777676	0.3673575	0.4472073
##	[938,]	0.5473952	-1.4137925	-0.3210118	1.7698410
##	[939,]	1.3037140	1.0942820	-1.0093811	-0.8754263
##	[940,]	-0.9652426	1.0942820	0.3673575	0.4472073
##	[941,]	1.3037140	1.0942820	-1.0093811	1.7698410
##	[942,]	0.5473952	-0.5777676	-1.0093811	1.7698410
##	[943,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[944,]	-0.2089237	0.2582572	-0.3210118	-0.8754263
##	[945,]	-0.9652426	1.0942820	-0.3210118	-0.2141095
##	[946,]	-0.2089237	1.0942820	-1.0093811	-0.8754263
##	[947,]	-0.9652426	-0.5777676	-1.0093811	1.7698410
##	[948,]	-0.9652426	-1.4137925	0.3673575	1.1085242
##	[949,]	-0.9652426	0.2582572	1.7440961	-0.8754263
##	[950,]	-0.9652426	1.0942820	-1.0093811	-0.2141095
##	[951,]	-0.2089237	0.2582572	-1.0093811	1.7698410
##	[952,]	-0.9652426	1.0942820	-1.0093811	-0.8754263
##	[953,]	-0.9652426	1.0942820	-0.3210118	1.7698410
##	[954,]	-0.9652426	-2.2498173	1.7440961	0.4472073
##	[955,]	0.5473952	0.2582572	1.7440961	1.7698410
##	[956,]	-0.9652426	1.0942820	1.0557268	-0.8754263
##	[957,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[958,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[959,]	0.5473952	1.0942820	1.7440961	1.1085242
##	[960,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[961,]	0.5473952	-0.5777676	0.3673575	-0.8754263
##	[962,]	2.0600329	1.0942820	-0.3210118	-0.8754263
##	[963,]	-0.2089237	-2.2498173	-1.0093811	-0.2141095
##	[964,]	2.0600329	-2.2498173	-1.0093811	-0.8754263
##	[965,]	0.5473952	0.2582572	-0.3210118	1.1085242
##	[966,]	-0.9652426	-1.4137925	1.0557268	-0.2141095
##	[967,]	-0.9652426	-2.2498173	1.7440961	1.7698410
##	[968,]	-0.2089237	1.0942820	-0.3210118	1.1085242
##	[969,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##	[970,]	-0.9652426	0.2582572	1.7440961	-0.8754263
##	[971,]	-0.9652426	-2.2498173	-1.0093811	1.7698410
##	[972,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[973,]	-0.9652426	-0.5777676	-0.3210118	-0.2141095
##	[974,]	-0.9652426	1.0942820	-1.0093811	0.4472073
##	[975,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[976,]	0.5473952	1.0942820	1.7440961	1.7698410
##	[977,]	-0.2089237	0.2582572	1.7440961	1.1085242
##	[978,]	-0.2089237	-0.5777676	-1.0093811	-0.8754263
##	[979,]	-0.9652426	0.2582572	-1.0093811	-0.8754263
##	[980,]	-0.2089237	-1.4137925	-0.3210118	-0.8754263
##	[981,]	0.5473952	-2.2498173	-1.0093811	0.4472073
##	[982,]	-0.2089237	0.2582572	0.3673575	0.4472073
##	[983,]	-0.9652426	-0.5777676	-1.0093811	-0.2141095

##	[984,]	-0.9652426	0.2582572	1.7440961	-0.2141095
##	[985,]	-0.2089237	-1.4137925	0.3673575	-0.8754263
##	[986,]	-0.9652426	0.2582572	-0.3210118	1.1085242
##	[987,]	2.0600329	1.0942820	-1.0093811	1.7698410
##	[988,]	-0.2089237	0.2582572	-1.0093811	1.7698410
##	[989,]	2.0600329	1.0942820	1.7440961	1.1085242
##	[990,]	0.5473952	1.0942820	1.7440961	1.7698410
##	[991,]	-0.9652426	-0.5777676	-1.0093811	0.4472073
##	[992,]	-0.9652426	-0.5777676	-1.0093811	-0.8754263
##	[993,]	-0.9652426	-2.2498173	-1.0093811	-0.8754263
##	[994,]	-0.9652426	-1.4137925	0.3673575	-0.8754263
##	[995,]	1.3037140	0.2582572	-1.0093811	-0.8754263
##	[996,]	-0.2089237	-1.4137925	-0.3210118	-0.8754263
##	[997,]	-0.9652426	-0.5777676	-1.0093811	1.1085242
##	[998,]	0.5473952	1.0942820	1.0557268	0.4472073
##	[999,]	0.5473952	1.0942820	-1.0093811	0.4472073
##	[1000,]	1.3037140	1.0942820	1.7440961	1.7698410
##	[1001,]	-0.9652426	0.2582572	1.7440961	-0.2141095
##	[1002,]	-0.9652426	-1.4137925	0.3673575	-0.8754263
##	[1003,]	-0.9652426	-2.2498173	-1.0093811	1.7698410
##	[1004,]	0.5473952	0.2582572	0.3673575	-0.2141095
##	[1005,]	-0.9652426	-0.5777676	0.3673575	1.1085242
##	[1006,]	-0.9652426	-1.4137925	-0.3210118	0.4472073
##	[1007,]	2.0600329	1.0942820	1.7440961	1.7698410
##	[1008,]	-0.9652426	-2.2498173	-1.0093811	-0.2141095
##	[1009,]	-0.9652426	1.0942820	1.0557268	-0.8754263
##	[1010,]	-0.9652426	0.2582572	-0.3210118	-0.8754263
##		Writing	Passive.sport	Active.sport	Gardening Celebrities
##	[1,]	0.07616101	-1.7010481	1.1349430	2.62648423 -1.0700304
##	[2,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911 -0.2828995
##	[3,]	2.40714959	1.1505014	-0.8609231	-0.77120911 -1.0700304
##	[4,]	0.85315721	-1.7010481	-1.5262117	-0.77120911 -0.2828995
##	[5,]	-0.70083518	-0.2752733	-1.5262117	1.77706090 0.5042314
##	[6,]	-0.70083518	1.1505014	0.4696543	0.07821423 -1.0700304
##	[7,]	-0.70083518	1.1505014	-0.1956344	0.92763756 -1.0700304
##	[8,]	-0.70083518	0.4376140	1.1349430	-0.77120911 0.5042314
##	[9,]	-0.70083518	0.4376140	-1.5262117	-0.77120911 2.0784931
##	[10,]	-0.70083518	0.4376140	0.4696543	-0.77120911 -0.2828995
##	[11,]	-0.70083518	1.1505014	-1.5262117	0.92763756 -0.2828995
##	[12,]	-0.70083518	1.1505014	-0.1956344	-0.77120911 -0.2828995
##	[13,]	-0.70083518	1.1505014	-0.1956344	1.77706090 0.5042314
##	[14,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911 2.0784931
##	[15,]	2.40714959	-0.2752733	-1.5262117	2.62648423 2.0784931
##	[16,]	0.07616101	1.1505014	-0.1956344	0.92763756 -1.0700304
##	[17,]	-0.70083518	1.1505014	-1.5262117	-0.77120911 0.5042314
##	[18,]	0.07616101	-1.7010481	-0.1956344	0.92763756 0.5042314
##	[19,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911 -1.0700304
##	[20,]	-0.70083518	0.4376140	-0.8609231	-0.77120911 0.5042314
##	[21,]	0.85315721	1.1505014	1.1349430	0.07821423 -0.2828995
##	[22,]	1.63015340	1.1505014	-0.1956344	0.92763756 -1.0700304

##	[23,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[24,]	0.85315721	-0.9881607	0.4696543	0.92763756	0.5042314
##	[25,]	0.85315721	0.4376140	1.1349430	0.92763756	1.2913622
##	[26,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	2.0784931
##	[27,]	0.07616101	0.4376140	1.1349430	2.62648423	1.2913622
##	[28,]	-0.70083518	-0.2752733	0.4696543	0.07821423	-0.2828995
##	[29,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[30,]	0.07616101	1.1505014	0.4696543	0.92763756	1.2913622
##	[31,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-0.2828995
##	[32,]	0.07616101	-0.2752733	-1.5262117	0.92763756	-1.0700304
##	[33,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	1.2913622
##	[34,]	-0.70083518	1.1505014	0.4696543	1.77706090	0.5042314
##	[35,]	0.07616101	1.1505014	-0.1956344	-0.77120911	-1.0700304
##	[36,]	-0.70083518	-0.2752733	-0.1956344	0.92763756	0.5042314
##	[37,]	-0.70083518	-0.9881607	-1.5262117	0.07821423	1.2913622
##	[38,]	-0.70083518	-0.2752733	1.1349430	2.62648423	-0.2828995
##	[39,]	2.40714959	-0.2752733	0.4696543	1.77706090	-0.2828995
##	[40,]	-0.70083518	1.1505014	1.1349430	0.07821423	-0.2828995
##	[41,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	2.0784931
##	[42,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-1.0700304
##	[43,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[44,]	2.40714959	0.4376140	-0.1956344	-0.77120911	0.5042314
##	[45,]	0.85315721	0.4376140	-0.8609231	0.07821423	2.0784931
##	[46,]	-0.70083518	0.4376140	1.1349430	-0.77120911	1.2913622
##	[47,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	1.2913622
##	[48,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	-0.2828995
##	[49,]	-0.70083518	-0.2752733	0.4696543	0.07821423	-0.2828995
##	[50,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[51,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	1.2913622
##	[52,]	-0.70083518	1.1505014	1.1349430	0.07821423	-0.2828995
##	[53,]	2.40714959	1.1505014	1.1349430	0.92763756	-1.0700304
##	[54,]	-0.70083518	1.1505014	1.1349430	0.92763756	-1.0700304
##	[55,]	0.07616101	1.1505014	0.4696543	-0.77120911	-1.0700304
##	[56,]	-0.70083518	-1.7010481	-0.1956344	-0.77120911	0.5042314
##	[57,]	0.85315721	1.1505014	-1.5262117	0.07821423	-0.2828995
##	[58,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	2.0784931
##	[59,]	-0.70083518	1.1505014	-0.1956344	0.92763756	-0.2828995
##	[60,]	0.85315721	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[61,]	2.40714959	-0.2752733	0.4696543	0.07821423	-1.0700304
##	[62,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-0.2828995
##	[63,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[64,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[65,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	0.5042314
##	[66,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-0.2828995
##	[67,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[68,]	0.07616101	-1.7010481	-0.1956344	1.77706090	0.5042314
##	[69,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-1.0700304
##	[70,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	2.0784931
##	[71,]	-0.70083518	-1.7010481	1.1349430	0.07821423	-0.2828995
##	[72,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	1.2913622

##	[73,]	-0.70083518	0.4376140	-0.1956344	0.07821423	-0.2828995
##	[74,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[75,]	0.85315721	-0.9881607	1.1349430	-0.77120911	-1.0700304
##	[76,]	0.07616101	1.1505014	1.1349430	-0.77120911	0.5042314
##	[77,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[78,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[79,]	0.85315721	-1.7010481	1.1349430	2.62648423	-1.0700304
##	[80,]	-0.70083518	0.4376140	-0.1956344	0.07821423	-1.0700304
##	[81,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[82,]	-0.70083518	0.4376140	1.1349430	-0.77120911	-0.2828995
##	[83,]	0.07616101	1.1505014	-1.5262117	1.77706090	-1.0700304
##	[84,]	-0.70083518	-0.2752733	-1.5262117	0.92763756	-1.0700304
##	[85,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-1.0700304
##	[86,]	-0.70083518	0.4376140	0.4696543	0.07821423	-0.2828995
##	[87,]	1.63015340	1.1505014	1.1349430	0.07821423	-1.0700304
##	[88,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	-0.2828995
##	[89,]	2.40714959	-1.7010481	-1.5262117	0.07821423	2.0784931
##	[90,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	0.5042314
##	[91,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-1.0700304
##	[92,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	0.5042314
##	[93,]	1.63015340	-0.9881607	-0.8609231	-0.77120911	-0.2828995
##	[94,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-1.0700304
##	[95,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[96,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	0.5042314
##	[97,]	-0.70083518	-1.7010481	0.4696543	-0.77120911	-1.0700304
##	[98,]	-0.70083518	-1.7010481	1.1349430	0.07821423	-1.0700304
##	[99,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[100,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	-1.0700304
##	[101,]	-0.70083518	0.4376140	-1.5262117	0.92763756	0.5042314
##	[102,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-0.2828995
##	[103,]	0.07616101	-1.7010481	1.1349430	0.07821423	-1.0700304
##	[104,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	1.2913622
##	[105,]	0.85315721	-0.2752733	-0.1956344	0.07821423	-1.0700304
##	[106,]	-0.70083518	0.4376140	1.1349430	0.92763756	-1.0700304
##	[107,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-0.2828995
##	[108,]	1.63015340	-0.9881607	1.1349430	0.07821423	-1.0700304
##	[109,]	1.63015340	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[110,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	-1.0700304
##	[111,]	0.85315721	-0.9881607	0.4696543	-0.77120911	-1.0700304
##	[112,]	1.63015340	-1.7010481	-0.1956344	0.07821423	-0.2828995
##	[113,]	-0.70083518	-0.2752733	-0.8609231	0.92763756	-1.0700304
##	[114,]	-0.70083518	1.1505014	1.1349430	2.62648423	1.2913622
##	[115,]	1.63015340	-1.7010481	-1.5262117	0.07821423	-0.2828995
##	[116,]	0.85315721	-0.2752733	0.4696543	0.92763756	-1.0700304
##	[117,]	2.40714959	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[118,]	-0.70083518	-1.7010481	-1.5262117	0.07821423	1.2913622
##	[119,]	0.07616101	0.4376140	-1.5262117	0.07821423	-1.0700304
##	[120,]	0.85315721	-0.9881607	-1.5262117	0.07821423	-1.0700304
##	[121,]	0.07616101	-1.7010481	0.4696543	-0.77120911	-1.0700304
##	[122,]	-0.70083518	-0.2752733	-0.8609231	-0.77120911	0.5042314

##	[123,]	0.85315721	0.4376140	-0.8609231	0.07821423	-0.2828995
##	[124,]	1.63015340	-0.9881607	0.4696543	1.77706090	-1.0700304
##	[125,]	0.85315721	0.4376140	1.1349430	-0.77120911	-1.0700304
##	[126,]	2.40714959	0.4376140	-0.1956344	1.77706090	-1.0700304
##	[127,]	0.07616101	-1.7010481	-1.5262117	0.07821423	0.5042314
##	[128,]	0.85315721	0.4376140	-1.5262117	0.07821423	-1.0700304
##	[129,]	2.40714959	-1.7010481	-0.1956344	2.62648423	-1.0700304
##	[130,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[131,]	1.63015340	1.1505014	-0.1956344	0.07821423	1.2913622
##	[132,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-0.2828995
##	[133,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	0.5042314
##	[134,]	0.85315721	-0.2752733	0.4696543	0.92763756	-1.0700304
##	[135,]	-0.70083518	-1.7010481	-0.1956344	0.92763756	-0.2828995
##	[136,]	-0.70083518	0.4376140	0.4696543	0.07821423	0.5042314
##	[137,]	0.07616101	1.1505014	1.1349430	1.77706090	-1.0700304
##	[138,]	1.63015340	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[139,]	0.85315721	-0.9881607	0.4696543	-0.77120911	-0.2828995
##	[140,]	0.85315721	-0.9881607	0.4696543	0.07821423	1.2913622
##	[141,]	0.85315721	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[142,]	-0.70083518	-1.7010481	-0.1956344	-0.77120911	-1.0700304
##	[143,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	0.5042314
##	[144,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-0.2828995
##	[145,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-1.0700304
##	[146,]	1.63015340	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[147,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[148,]	0.85315721	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[149,]	0.85315721	-0.2752733	0.4696543	-0.77120911	-0.2828995
##	[150,]	-0.70083518	-0.9881607	-0.1956344	-0.77120911	-1.0700304
##	[151,]	-0.70083518	1.1505014	0.4696543	-0.77120911	-0.2828995
##	[152,]	-0.70083518	0.4376140	1.1349430	-0.77120911	1.2913622
##	[153,]	2.40714959	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[154,]	-0.70083518	-0.2752733	-0.1956344	0.07821423	1.2913622
##	[155,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[156,]	1.63015340	-0.2752733	-0.1956344	0.92763756	-0.2828995
##	[157,]	-0.70083518	-0.2752733	-0.8609231	-0.77120911	-1.0700304
##	[158,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[159,]	1.63015340	1.1505014	1.1349430	0.92763756	1.2913622
##	[160,]	0.07616101	1.1505014	0.4696543	0.92763756	-0.2828995
##	[161,]	1.63015340	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[162,]	1.63015340	0.4376140	-0.8609231	0.92763756	1.2913622
##	[163,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-1.0700304
##	[164,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[165,]	1.63015340	-1.7010481	-0.1956344	0.07821423	2.0784931
##	[166,]	0.07616101	-0.9881607	-0.8609231	-0.77120911	-0.2828995
##	[167,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	-1.0700304
##	[168,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-1.0700304
##	[169,]	1.63015340	0.4376140	0.4696543	-0.77120911	0.5042314
##	[170,]	1.63015340	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[171,]	0.85315721	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[172,]	1.63015340	0.4376140	0.4696543	-0.77120911	1.2913622

##	[173,]	2.40714959	1.1505014	-0.8609231	-0.77120911	-1.0700304
##	[174,]	0.07616101	0.4376140	-0.1956344	-0.77120911	-1.0700304
##	[175,]	2.40714959	1.1505014	-0.1956344	2.62648423	0.5042314
##	[176,]	-0.70083518	1.1505014	0.4696543	0.07821423	0.5042314
##	[177,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-1.0700304
##	[178,]	1.63015340	0.4376140	0.4696543	1.77706090	0.5042314
##	[179,]	1.63015340	-1.7010481	-1.5262117	0.92763756	-0.2828995
##	[180,]	0.07616101	-0.9881607	-0.1956344	0.07821423	-1.0700304
##	[181,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[182,]	0.07616101	-0.2752733	-0.1956344	0.07821423	-0.2828995
##	[183,]	-0.70083518	-0.2752733	0.4696543	0.07821423	-0.2828995
##	[184,]	0.85315721	-0.2752733	1.1349430	0.92763756	-1.0700304
##	[185,]	2.40714959	-0.9881607	-0.8609231	-0.77120911	-1.0700304
##	[186,]	-0.70083518	1.1505014	-0.1956344	2.62648423	-1.0700304
##	[187,]	-0.70083518	-0.2752733	0.4696543	1.77706090	0.5042314
##	[188,]	0.85315721	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[189,]	0.85315721	-0.2752733	-0.1956344	0.92763756	-0.2828995
##	[190,]	-0.70083518	-0.9881607	-0.1956344	-0.77120911	-1.0700304
##	[191,]	-0.70083518	0.4376140	1.1349430	1.77706090	-1.0700304
##	[192,]	-0.70083518	-0.9881607	-0.8609231	1.77706090	0.5042314
##	[193,]	2.40714959	-0.9881607	0.4696543	-0.77120911	2.0784931
##	[194,]	1.63015340	0.4376140	0.4696543	1.77706090	-1.0700304
##	[195,]	0.85315721	1.1505014	-0.8609231	-0.77120911	-1.0700304
##	[196,]	0.85315721	0.4376140	0.4696543	0.92763756	1.2913622
##	[197,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[198,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-0.2828995
##	[199,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	-1.0700304
##	[200,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[201,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-1.0700304
##	[202,]	2.40714959	0.4376140	0.4696543	-0.77120911	1.2913622
##	[203,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	0.5042314
##	[204,]	-0.70083518	0.4376140	-0.1956344	0.92763756	-1.0700304
##	[205,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[206,]	2.40714959	-1.7010481	0.4696543	1.77706090	-1.0700304
##	[207,]	0.85315721	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[208,]	0.07616101	1.1505014	1.1349430	0.07821423	0.5042314
##	[209,]	0.07616101	-0.2752733	1.1349430	-0.77120911	1.2913622
##	[210,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[211,]	0.85315721	-0.9881607	1.1349430	2.62648423	2.0784931
##	[212,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	2.0784931
##	[213,]	2.40714959	1.1505014	-1.5262117	1.77706090	-1.0700304
##	[214,]	-0.70083518	-0.2752733	-0.1956344	0.92763756	1.2913622
##	[215,]	0.07616101	-0.9881607	-0.1956344	0.07821423	1.2913622
##	[216,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[217,]	-0.70083518	-1.7010481	-0.1956344	-0.77120911	-1.0700304
##	[218,]	0.85315721	-0.2752733	-0.8609231	0.07821423	-0.2828995
##	[219,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	0.5042314
##	[220,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[221,]	-0.70083518	1.1505014	1.1349430	0.92763756	-1.0700304
##	[222,]	0.85315721	-0.2752733	1.1349430	0.92763756	-1.0700304

##	[223,]	0.07616101	0.4376140	-0.8609231	0.92763756	0.5042314
##	[224,]	1.63015340	1.1505014	1.1349430	0.07821423	-0.2828995
##	[225,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[226,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	-1.0700304
##	[227,]	-0.70083518	1.1505014	-0.1956344	2.62648423	2.0784931
##	[228,]	0.07616101	0.4376140	-0.8609231	-0.77120911	-1.0700304
##	[229,]	-0.70083518	0.4376140	-0.8609231	1.77706090	-1.0700304
##	[230,]	-0.70083518	1.1505014	-0.1956344	0.07821423	-1.0700304
##	[231,]	-0.70083518	1.1505014	0.4696543	-0.77120911	0.5042314
##	[232,]	0.85315721	0.4376140	-0.8609231	1.77706090	2.0784931
##	[233,]	-0.70083518	1.1505014	-0.8609231	0.92763756	-0.2828995
##	[234,]	0.85315721	1.1505014	1.1349430	0.92763756	0.5042314
##	[235,]	-0.70083518	0.4376140	-0.8609231	0.92763756	0.5042314
##	[236,]	0.85315721	1.1505014	-1.5262117	0.92763756	-1.0700304
##	[237,]	0.07616101	0.4376140	0.4696543	0.92763756	-0.2828995
##	[238,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-0.2828995
##	[239,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	0.5042314
##	[240,]	0.85315721	-0.9881607	0.4696543	0.92763756	-1.0700304
##	[241,]	-0.70083518	1.1505014	1.1349430	0.07821423	0.5042314
##	[242,]	0.07616101	1.1505014	-0.1956344	-0.77120911	2.0784931
##	[243,]	0.07616101	-0.9881607	-0.8609231	0.07821423	-0.2828995
##	[244,]	1.63015340	-0.9881607	-1.5262117	1.77706090	0.5042314
##	[245,]	-0.70083518	-0.9881607	-0.1956344	-0.77120911	2.0784931
##	[246,]	2.40714959	1.1505014	1.1349430	0.07821423	-0.2828995
##	[247,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-1.0700304
##	[248,]	-0.70083518	-0.9881607	1.1349430	0.92763756	0.5042314
##	[249,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	-1.0700304
##	[250,]	0.85315721	1.1505014	-0.1956344	0.07821423	-1.0700304
##	[251,]	0.07616101	1.1505014	-0.1956344	-0.77120911	1.2913622
##	[252,]	-0.70083518	1.1505014	0.4696543	0.92763756	-1.0700304
##	[253,]	2.40714959	1.1505014	-0.1956344	2.62648423	0.5042314
##	[254,]	-0.70083518	1.1505014	-0.8609231	2.62648423	-0.2828995
##	[255,]	-0.70083518	0.4376140	-1.5262117	0.92763756	2.0784931
##	[256,]	2.40714959	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[257,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	2.0784931
##	[258,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[259,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	-1.0700304
##	[260,]	0.07616101	1.1505014	-0.8609231	-0.77120911	-1.0700304
##	[261,]	0.85315721	-0.2752733	-1.5262117	0.92763756	0.5042314
##	[262,]	2.40714959	-0.9881607	1.1349430	1.77706090	1.2913622
##	[263,]	2.40714959	0.4376140	-1.5262117	1.77706090	-1.0700304
##	[264,]	0.85315721	1.1505014	0.4696543	0.07821423	-0.2828995
##	[265,]	-0.70083518	-1.7010481	1.1349430	0.92763756	0.5042314
##	[266,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	0.5042314
##	[267,]	-0.70083518	-0.9881607	0.4696543	0.92763756	0.5042314
##	[268,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[269,]	-0.70083518	1.1505014	-0.8609231	1.77706090	-0.2828995
##	[270,]	0.07616101	-1.7010481	-1.5262117	0.07821423	-1.0700304
##	[271,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	2.0784931
##	[272,]	-0.70083518	0.4376140	1.1349430	-0.77120911	1.2913622

##	[273,]	0.07616101	-1.7010481	-0.8609231	0.07821423	-1.0700304
##	[274,]	0.07616101	0.4376140	0.4696543	-0.77120911	-0.2828995
##	[275,]	1.63015340	-0.9881607	0.4696543	2.62648423	-1.0700304
##	[276,]	2.40714959	0.4376140	-0.8609231	0.07821423	1.2913622
##	[277,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-0.2828995
##	[278,]	-0.70083518	0.4376140	1.1349430	-0.77120911	-1.0700304
##	[279,]	-0.70083518	-1.7010481	1.1349430	2.62648423	0.5042314
##	[280,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[281,]	2.40714959	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[282,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-1.0700304
##	[283,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[284,]	-0.70083518	1.1505014	1.1349430	0.92763756	-0.2828995
##	[285,]	-0.70083518	1.1505014	1.1349430	0.92763756	-0.2828995
##	[286,]	0.07616101	0.4376140	-0.8609231	-0.77120911	-0.2828995
##	[287,]	-0.70083518	-0.2752733	1.1349430	0.07821423	0.5042314
##	[288,]	-0.70083518	-0.2752733	0.4696543	0.07821423	-0.2828995
##	[289,]	0.07616101	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[290,]	-0.70083518	1.1505014	0.4696543	-0.77120911	-0.2828995
##	[291,]	2.40714959	-0.2752733	0.4696543	-0.77120911	-1.0700304
##	[292,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[293,]	1.63015340	-1.7010481	-0.8609231	-0.77120911	2.0784931
##	[294,]	0.85315721	-1.7010481	-0.8609231	-0.77120911	-1.0700304
##	[295,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	-1.0700304
##	[296,]	-0.70083518	0.4376140	1.1349430	-0.77120911	-0.2828995
##	[297,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[298,]	0.85315721	0.4376140	-1.5262117	0.92763756	-1.0700304
##	[299,]	2.40714959	-1.7010481	1.1349430	0.07821423	-0.2828995
##	[300,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-0.2828995
##	[301,]	0.85315721	-1.7010481	-0.1956344	0.92763756	-1.0700304
##	[302,]	0.07616101	-0.9881607	-1.5262117	0.07821423	-1.0700304
##	[303,]	-0.70083518	-0.9881607	-0.1956344	-0.77120911	0.5042314
##	[304,]	-0.70083518	1.1505014	0.4696543	1.77706090	1.2913622
##	[305,]	-0.70083518	-0.9881607	-0.1956344	0.92763756	-1.0700304
##	[306,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[307,]	-0.70083518	1.1505014	1.1349430	0.07821423	-0.2828995
##	[308,]	2.40714959	1.1505014	0.4696543	0.07821423	-1.0700304
##	[309,]	-0.70083518	1.1505014	1.1349430	0.07821423	0.5042314
##	[310,]	-0.70083518	-0.9881607	0.4696543	2.62648423	-1.0700304
##	[311,]	-0.70083518	-0.2752733	-0.1956344	0.07821423	-0.2828995
##	[312,]	0.07616101	1.1505014	0.4696543	0.07821423	0.5042314
##	[313,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[314,]	-0.70083518	0.4376140	0.4696543	-0.77120911	1.2913622
##	[315,]	1.63015340	1.1505014	1.1349430	0.07821423	0.5042314
##	[316,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	1.2913622
##	[317,]	-0.70083518	0.4376140	0.4696543	1.77706090	1.2913622
##	[318,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[319,]	0.07616101	1.1505014	-0.1956344	2.62648423	0.5042314
##	[320,]	0.85315721	0.4376140	-1.5262117	-0.77120911	1.2913622
##	[321,]	0.85315721	0.4376140	-0.1956344	0.92763756	1.2913622
##	[322,]	0.07616101	-0.2752733	0.4696543	0.07821423	0.5042314

##	[323,]	-0.70083518	0.4376140	1.1349430	0.07821423	0.5042314
##	[324,]	-0.70083518	1.1505014	0.4696543	1.77706090	0.5042314
##	[325,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	1.2913622
##	[326,]	0.07616101	1.1505014	1.1349430	2.62648423	-0.2828995
##	[327,]	-0.70083518	0.4376140	-0.1956344	0.92763756	0.5042314
##	[328,]	0.85315721	0.4376140	-0.8609231	0.07821423	2.0784931
##	[329,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[330,]	-0.70083518	1.1505014	-0.1956344	0.07821423	2.0784931
##	[331,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	1.2913622
##	[332,]	1.63015340	-1.7010481	1.1349430	1.77706090	0.5042314
##	[333,]	1.63015340	1.1505014	-0.1956344	0.92763756	-1.0700304
##	[334,]	1.63015340	1.1505014	1.1349430	0.92763756	-0.2828995
##	[335,]	-0.70083518	-0.2752733	-0.8609231	0.07821423	-0.2828995
##	[336,]	0.07616101	-0.2752733	1.1349430	0.07821423	-0.2828995
##	[337,]	-0.70083518	-1.7010481	-1.5262117	0.07821423	0.5042314
##	[338,]	-0.70083518	-1.7010481	1.1349430	1.77706090	1.2913622
##	[339,]	0.07616101	0.4376140	-0.8609231	-0.77120911	1.2913622
##	[340,]	-0.70083518	0.4376140	1.1349430	0.07821423	0.5042314
##	[341,]	2.40714959	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[342,]	1.63015340	1.1505014	1.1349430	0.92763756	1.2913622
##	[343,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	-0.2828995
##	[344,]	-0.70083518	-0.2752733	0.4696543	2.62648423	-0.2828995
##	[345,]	-0.70083518	1.1505014	-0.8609231	1.77706090	2.0784931
##	[346,]	-0.70083518	1.1505014	-0.8609231	0.92763756	0.5042314
##	[347,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	-0.2828995
##	[348,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	0.5042314
##	[349,]	-0.70083518	-1.7010481	1.1349430	2.62648423	-1.0700304
##	[350,]	-0.70083518	0.4376140	1.1349430	-0.77120911	0.5042314
##	[351,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	-1.0700304
##	[352,]	-0.70083518	1.1505014	1.1349430	1.77706090	1.2913622
##	[353,]	-0.70083518	1.1505014	-1.5262117	0.92763756	-1.0700304
##	[354,]	0.85315721	-1.7010481	-0.1956344	0.07821423	-0.2828995
##	[355,]	1.63015340	-1.7010481	0.4696543	0.92763756	1.2913622
##	[356,]	0.07616101	1.1505014	1.1349430	-0.77120911	0.5042314
##	[357,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	0.5042314
##	[358,]	-0.70083518	1.1505014	1.1349430	0.07821423	-1.0700304
##	[359,]	-0.70083518	-0.2752733	0.4696543	0.07821423	0.5042314
##	[360,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	0.5042314
##	[361,]	0.07616101	1.1505014	1.1349430	-0.77120911	1.2913622
##	[362,]	1.63015340	-0.2752733	1.1349430	0.07821423	-1.0700304
##	[363,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	-0.2828995
##	[364,]	0.07616101	-1.7010481	0.4696543	-0.77120911	-0.2828995
##	[365,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[366,]	0.07616101	0.4376140	-0.1956344	-0.77120911	-1.0700304
##	[367,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	0.5042314
##	[368,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[369,]	-0.70083518	1.1505014	-0.8609231	0.92763756	2.0784931
##	[370,]	-0.70083518	-0.2752733	1.1349430	0.92763756	0.5042314
##	[371,]	-0.70083518	-0.2752733	-0.1956344	0.92763756	-1.0700304
##	[372,]	0.85315721	-0.9881607	1.1349430	0.92763756	-1.0700304

##	[373,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[374,]	-0.70083518	1.1505014	0.4696543	-0.77120911	0.5042314
##	[375,]	-0.70083518	1.1505014	0.4696543	-0.77120911	0.5042314
##	[376,]	-0.70083518	1.1505014	1.1349430	0.07821423	-0.2828995
##	[377,]	-0.70083518	0.4376140	1.1349430	0.07821423	0.5042314
##	[378,]	0.85315721	1.1505014	-0.1956344	0.07821423	-1.0700304
##	[379,]	-0.70083518	1.1505014	-0.8609231	0.07821423	-1.0700304
##	[380,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[381,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	1.2913622
##	[382,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[383,]	0.07616101	-0.2752733	1.1349430	-0.77120911	2.0784931
##	[384,]	-0.70083518	-1.7010481	0.4696543	-0.77120911	-1.0700304
##	[385,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[386,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	0.5042314
##	[387,]	2.40714959	1.1505014	-0.1956344	-0.77120911	-1.0700304
##	[388,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	2.0784931
##	[389,]	2.40714959	-0.9881607	0.4696543	0.92763756	-1.0700304
##	[390,]	1.63015340	1.1505014	1.1349430	0.92763756	-0.2828995
##	[391,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	-0.2828995
##	[392,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	-0.2828995
##	[393,]	-0.70083518	-0.9881607	-1.5262117	0.07821423	0.5042314
##	[394,]	-0.70083518	-1.7010481	1.1349430	0.07821423	-1.0700304
##	[395,]	0.07616101	1.1505014	-0.1956344	-0.77120911	2.0784931
##	[396,]	-0.70083518	0.4376140	1.1349430	-0.77120911	-1.0700304
##	[397,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[398,]	0.07616101	0.4376140	-0.8609231	-0.77120911	2.0784931
##	[399,]	0.85315721	1.1505014	0.4696543	-0.77120911	1.2913622
##	[400,]	0.07616101	0.4376140	-0.8609231	0.92763756	-0.2828995
##	[401,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[402,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[403,]	-0.70083518	-0.2752733	-0.1956344	0.07821423	0.5042314
##	[404,]	0.07616101	-0.9881607	-0.1956344	0.07821423	-0.2828995
##	[405,]	-0.70083518	1.1505014	-0.1956344	0.07821423	-1.0700304
##	[406,]	0.85315721	-1.7010481	-0.1956344	0.07821423	-0.2828995
##	[407,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-1.0700304
##	[408,]	0.85315721	-1.7010481	-0.1956344	-0.77120911	0.5042314
##	[409,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-1.0700304
##	[410,]	0.07616101	-1.7010481	1.1349430	-0.77120911	2.0784931
##	[411,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[412,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-0.2828995
##	[413,]	-0.70083518	-1.7010481	-0.8609231	-0.77120911	-1.0700304
##	[414,]	-0.70083518	1.1505014	0.4696543	-0.77120911	0.5042314
##	[415,]	2.40714959	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[416,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	2.0784931
##	[417,]	0.07616101	1.1505014	-0.8609231	0.07821423	-0.2828995
##	[418,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	-1.0700304
##	[419,]	-0.70083518	-1.7010481	-0.1956344	0.92763756	0.5042314
##	[420,]	0.07616101	-0.2752733	-1.5262117	-0.77120911	-1.0700304
##	[421,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[422,]	2.40714959	1.1505014	-0.8609231	0.92763756	1.2913622

##	[423,]	0.07616101	1.1505014	1.1349430	1.77706090	2.0784931
##	[424,]	0.07616101	-0.2752733	-1.5262117	0.92763756	0.5042314
##	[425,]	-0.70083518	-0.9881607	-1.5262117	0.07821423	-1.0700304
##	[426,]	-0.70083518	-1.7010481	1.1349430	1.77706090	2.0784931
##	[427,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[428,]	2.40714959	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[429,]	0.07616101	1.1505014	-0.1956344	0.07821423	2.0784931
##	[430,]	1.63015340	-0.2752733	1.1349430	-0.77120911	1.2913622
##	[431,]	-0.70083518	-1.7010481	1.1349430	0.92763756	-1.0700304
##	[432,]	-0.70083518	0.4376140	-1.5262117	0.92763756	-0.2828995
##	[433,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	-1.0700304
##	[434,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	0.5042314
##	[435,]	-0.70083518	0.4376140	1.1349430	-0.77120911	-0.2828995
##	[436,]	-0.70083518	-0.2752733	-0.8609231	0.07821423	0.5042314
##	[437,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	-0.2828995
##	[438,]	0.07616101	0.4376140	-0.8609231	-0.77120911	-0.2828995
##	[439,]	1.63015340	-0.9881607	-1.5262117	0.92763756	1.2913622
##	[440,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[441,]	-0.70083518	-0.2752733	-0.1956344	0.07821423	1.2913622
##	[442,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	-0.2828995
##	[443,]	0.07616101	-0.2752733	0.4696543	0.07821423	1.2913622
##	[444,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[445,]	0.07616101	-0.2752733	0.4696543	-0.77120911	-1.0700304
##	[446,]	-0.70083518	0.4376140	1.1349430	0.92763756	2.0784931
##	[447,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	-1.0700304
##	[448,]	2.40714959	-1.7010481	-1.5262117	0.92763756	-1.0700304
##	[449,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	0.5042314
##	[450,]	-0.70083518	-0.9881607	-1.5262117	0.07821423	-0.2828995
##	[451,]	-0.70083518	1.1505014	0.4696543	1.77706090	2.0784931
##	[452,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[453,]	-0.70083518	1.1505014	1.1349430	0.07821423	0.5042314
##	[454,]	-0.70083518	-0.9881607	-1.5262117	0.07821423	-0.2828995
##	[455,]	-0.70083518	0.4376140	-1.5262117	0.07821423	2.0784931
##	[456,]	0.07616101	-0.2752733	1.1349430	1.77706090	1.2913622
##	[457,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[458,]	0.07616101	1.1505014	-0.1956344	-0.77120911	-1.0700304
##	[459,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[460,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[461,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[462,]	0.85315721	-0.2752733	-0.1956344	0.92763756	0.5042314
##	[463,]	-0.70083518	0.4376140	-0.8609231	0.92763756	-1.0700304
##	[464,]	-0.70083518	-0.2752733	-1.5262117	0.92763756	-1.0700304
##	[465,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	0.5042314
##	[466,]	-0.70083518	-1.7010481	-0.1956344	-0.77120911	-0.2828995
##	[467,]	-0.70083518	-1.7010481	1.1349430	0.07821423	2.0784931
##	[468,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	-0.2828995
##	[469,]	-0.70083518	-0.9881607	0.4696543	0.07821423	0.5042314
##	[470,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[471,]	-0.70083518	0.4376140	-1.5262117	0.07821423	0.5042314
##	[472,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	-1.0700304

##	[473,]	0.85315721	1.1505014	-0.8609231	-0.77120911	-1.0700304
##	[474,]	0.85315721	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[475,]	1.63015340	-0.9881607	1.1349430	-0.77120911	-0.2828995
##	[476,]	0.85315721	-0.2752733	-0.1956344	-0.77120911	1.2913622
##	[477,]	1.63015340	-0.9881607	-0.1956344	0.07821423	-0.2828995
##	[478,]	0.07616101	-0.9881607	-0.1956344	-0.77120911	-1.0700304
##	[479,]	2.40714959	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[480,]	-0.70083518	-0.2752733	-0.8609231	0.92763756	-0.2828995
##	[481,]	-0.70083518	1.1505014	-0.1956344	1.77706090	-0.2828995
##	[482,]	2.40714959	-1.7010481	-0.8609231	-0.77120911	-1.0700304
##	[483,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	-0.2828995
##	[484,]	0.07616101	0.4376140	-0.8609231	-0.77120911	0.5042314
##	[485,]	-0.70083518	0.4376140	-0.1956344	0.92763756	-0.2828995
##	[486,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	1.2913622
##	[487,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	2.0784931
##	[488,]	-0.70083518	1.1505014	1.1349430	-0.77120911	2.0784931
##	[489,]	0.07616101	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[490,]	0.85315721	1.1505014	1.1349430	-0.77120911	0.5042314
##	[491,]	-0.70083518	1.1505014	1.1349430	-0.77120911	1.2913622
##	[492,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	0.5042314
##	[493,]	2.40714959	-1.7010481	-0.8609231	0.07821423	1.2913622
##	[494,]	-0.70083518	1.1505014	-0.1956344	0.07821423	-0.2828995
##	[495,]	-0.70083518	-0.2752733	-0.1956344	0.07821423	0.5042314
##	[496,]	-0.70083518	1.1505014	-1.5262117	2.62648423	1.2913622
##	[497,]	-0.70083518	-1.7010481	-1.5262117	0.92763756	-0.2828995
##	[498,]	0.85315721	0.4376140	0.4696543	-0.77120911	-1.0700304
##	[499,]	-0.70083518	1.1505014	-1.5262117	0.92763756	-1.0700304
##	[500,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	-1.0700304
##	[501,]	0.07616101	1.1505014	-1.5262117	0.07821423	0.5042314
##	[502,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[503,]	-0.70083518	-0.9881607	-0.1956344	-0.77120911	-1.0700304
##	[504,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	0.5042314
##	[505,]	-0.70083518	1.1505014	-0.1956344	2.62648423	2.0784931
##	[506,]	-0.70083518	0.4376140	1.1349430	-0.77120911	0.5042314
##	[507,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[508,]	-0.70083518	-0.9881607	1.1349430	0.92763756	-0.2828995
##	[509,]	0.85315721	1.1505014	-0.8609231	-0.77120911	-0.2828995
##	[510,]	-0.70083518	0.4376140	1.1349430	-0.77120911	-1.0700304
##	[511,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[512,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	-1.0700304
##	[513,]	2.40714959	-1.7010481	-1.5262117	0.92763756	2.0784931
##	[514,]	-0.70083518	1.1505014	1.1349430	0.92763756	0.5042314
##	[515,]	0.07616101	-0.9881607	-1.5262117	-0.77120911	0.5042314
##	[516,]	-0.70083518	1.1505014	-1.5262117	0.92763756	0.5042314
##	[517,]	0.85315721	1.1505014	1.1349430	0.92763756	-1.0700304
##	[518,]	1.63015340	-1.7010481	1.1349430	-0.77120911	2.0784931
##	[519,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	0.5042314
##	[520,]	-0.70083518	-0.2752733	1.1349430	2.62648423	-1.0700304
##	[521,]	-0.70083518	0.4376140	0.4696543	0.92763756	0.5042314
##	[522,]	0.85315721	-0.2752733	-1.5262117	-0.77120911	1.2913622

##	[523,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	-0.2828995
##	[524,]	0.85315721	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[525,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	2.0784931
##	[526,]	0.85315721	-0.9881607	1.1349430	0.92763756	-0.2828995
##	[527,]	-0.70083518	1.1505014	1.1349430	0.92763756	-0.2828995
##	[528,]	0.85315721	0.4376140	1.1349430	0.07821423	-0.2828995
##	[529,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[530,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-0.2828995
##	[531,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-0.2828995
##	[532,]	0.07616101	1.1505014	-0.1956344	0.07821423	-1.0700304
##	[533,]	0.85315721	1.1505014	-0.1956344	0.07821423	0.5042314
##	[534,]	0.07616101	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[535,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[536,]	1.63015340	0.4376140	0.4696543	0.92763756	0.5042314
##	[537,]	-0.70083518	1.1505014	1.1349430	-0.77120911	2.0784931
##	[538,]	-0.70083518	1.1505014	0.4696543	-0.77120911	-1.0700304
##	[539,]	-0.70083518	-0.2752733	-1.5262117	0.07821423	0.5042314
##	[540,]	1.63015340	-0.2752733	0.4696543	0.07821423	0.5042314
##	[541,]	1.63015340	1.1505014	-0.1956344	0.92763756	0.5042314
##	[542,]	-0.70083518	-0.9881607	-1.5262117	0.07821423	0.5042314
##	[543,]	0.07616101	0.4376140	1.1349430	0.07821423	1.2913622
##	[544,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[545,]	-0.70083518	-1.7010481	-0.1956344	0.92763756	-1.0700304
##	[546,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	-0.2828995
##	[547,]	0.07616101	1.1505014	1.1349430	0.92763756	-1.0700304
##	[548,]	1.63015340	1.1505014	1.1349430	0.07821423	-1.0700304
##	[549,]	-0.70083518	-0.2752733	-0.8609231	0.07821423	0.5042314
##	[550,]	-0.70083518	-0.9881607	-1.5262117	0.92763756	-0.2828995
##	[551,]	0.85315721	0.4376140	-0.8609231	0.07821423	-0.2828995
##	[552,]	-0.70083518	1.1505014	-0.1956344	0.92763756	1.2913622
##	[553,]	2.40714959	1.1505014	0.4696543	0.07821423	2.0784931
##	[554,]	0.07616101	0.4376140	-0.1956344	-0.77120911	-1.0700304
##	[555,]	0.07616101	0.4376140	1.1349430	0.07821423	0.5042314
##	[556,]	-0.70083518	-0.2752733	-0.8609231	0.07821423	2.0784931
##	[557,]	0.07616101	0.4376140	0.4696543	-0.77120911	0.5042314
##	[558,]	1.63015340	-0.2752733	-1.5262117	-0.77120911	-1.0700304
##	[559,]	1.63015340	-0.9881607	-0.1956344	-0.77120911	-0.2828995
##	[560,]	-0.70083518	-0.2752733	-0.8609231	-0.77120911	1.2913622
##	[561,]	2.40714959	-1.7010481	1.1349430	2.62648423	-0.2828995
##	[562,]	0.07616101	1.1505014	1.1349430	0.92763756	-0.2828995
##	[563,]	-0.70083518	1.1505014	1.1349430	0.07821423	0.5042314
##	[564,]	-0.70083518	1.1505014	1.1349430	-0.77120911	1.2913622
##	[565,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[566,]	0.07616101	1.1505014	1.1349430	2.62648423	2.0784931
##	[567,]	0.85315721	1.1505014	-1.5262117	0.92763756	-0.2828995
##	[568,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-0.2828995
##	[569,]	-0.70083518	1.1505014	-0.8609231	0.07821423	2.0784931
##	[570,]	0.07616101	1.1505014	1.1349430	0.92763756	-0.2828995
##	[571,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[572,]	0.07616101	-0.2752733	1.1349430	-0.77120911	-1.0700304

##	[573,]	-0.70083518	1.1505014	1.1349430	1.77706090	-1.0700304
##	[574,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[575,]	-0.70083518	1.1505014	1.1349430	0.92763756	0.5042314
##	[576,]	0.85315721	-0.2752733	1.1349430	0.92763756	-0.2828995
##	[577,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[578,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-0.2828995
##	[579,]	2.40714959	1.1505014	-1.5262117	0.07821423	1.2913622
##	[580,]	-0.70083518	1.1505014	1.1349430	-0.77120911	1.2913622
##	[581,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-1.0700304
##	[582,]	-0.70083518	1.1505014	0.4696543	0.07821423	0.5042314
##	[583,]	0.07616101	1.1505014	-0.8609231	-0.77120911	-1.0700304
##	[584,]	2.40714959	0.4376140	-0.1956344	0.07821423	-1.0700304
##	[585,]	-0.70083518	-0.2752733	-1.5262117	0.07821423	-0.2828995
##	[586,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	0.5042314
##	[587,]	2.40714959	-1.7010481	1.1349430	-0.77120911	0.5042314
##	[588,]	-0.70083518	-0.9881607	1.1349430	0.07821423	-0.2828995
##	[589,]	-0.70083518	-0.9881607	1.1349430	1.77706090	0.5042314
##	[590,]	0.85315721	-0.2752733	1.1349430	0.07821423	-1.0700304
##	[591,]	-0.70083518	-0.9881607	0.4696543	0.07821423	-1.0700304
##	[592,]	1.63015340	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[593,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	1.2913622
##	[594,]	-0.70083518	1.1505014	-0.8609231	0.07821423	-1.0700304
##	[595,]	-0.70083518	-1.7010481	-0.1956344	-0.77120911	-1.0700304
##	[596,]	0.85315721	-0.9881607	0.4696543	-0.77120911	-1.0700304
##	[597,]	-0.70083518	-0.2752733	-0.8609231	0.07821423	-1.0700304
##	[598,]	-0.70083518	1.1505014	1.1349430	0.07821423	-0.2828995
##	[599,]	-0.70083518	1.1505014	-0.1956344	0.07821423	0.5042314
##	[600,]	0.07616101	1.1505014	0.4696543	-0.77120911	0.5042314
##	[601,]	-0.70083518	1.1505014	-0.1956344	0.07821423	2.0784931
##	[602,]	-0.70083518	-0.9881607	-0.8609231	0.07821423	-1.0700304
##	[603,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[604,]	-0.70083518	-0.2752733	1.1349430	0.07821423	1.2913622
##	[605,]	0.85315721	1.1505014	1.1349430	-0.77120911	0.5042314
##	[606,]	-0.70083518	1.1505014	1.1349430	0.92763756	-0.2828995
##	[607,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[608,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	-1.0700304
##	[609,]	1.63015340	-0.2752733	-0.1956344	0.92763756	0.5042314
##	[610,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[611,]	-0.70083518	-0.9881607	-0.1956344	-0.77120911	1.2913622
##	[612,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	1.2913622
##	[613,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	0.5042314
##	[614,]	0.07616101	1.1505014	-0.1956344	-0.77120911	-0.2828995
##	[615,]	-0.70083518	-0.9881607	1.1349430	2.62648423	-0.2828995
##	[616,]	0.85315721	1.1505014	-0.8609231	0.07821423	-1.0700304
##	[617,]	-0.70083518	1.1505014	0.4696543	-0.77120911	-1.0700304
##	[618,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-1.0700304
##	[619,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	1.2913622
##	[620,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[621,]	1.63015340	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[622,]	-0.70083518	-1.7010481	-0.8609231	-0.77120911	-1.0700304

##	[623,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[624,]	-0.70083518	-0.2752733	-1.5262117	0.92763756	-0.2828995
##	[625,]	1.63015340	-0.2752733	1.1349430	-0.77120911	0.5042314
##	[626,]	-0.70083518	1.1505014	1.1349430	0.07821423	0.5042314
##	[627,]	-0.70083518	0.4376140	-0.1956344	1.77706090	1.2913622
##	[628,]	-0.70083518	-0.9881607	-0.1956344	0.07821423	1.2913622
##	[629,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[630,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	0.5042314
##	[631,]	-0.70083518	1.1505014	1.1349430	0.07821423	-0.2828995
##	[632,]	2.40714959	-1.7010481	0.4696543	0.92763756	-0.2828995
##	[633,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[634,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[635,]	0.07616101	0.4376140	0.4696543	0.07821423	0.5042314
##	[636,]	-0.70083518	-1.7010481	-0.1956344	-0.77120911	-0.2828995
##	[637,]	-0.70083518	0.4376140	0.4696543	1.77706090	-0.2828995
##	[638,]	-0.70083518	-0.2752733	1.1349430	0.92763756	-0.2828995
##	[639,]	-0.70083518	-0.2752733	0.4696543	0.92763756	0.5042314
##	[640,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	-1.0700304
##	[641,]	-0.70083518	0.4376140	1.1349430	0.07821423	2.0784931
##	[642,]	-0.70083518	-0.2752733	-0.8609231	-0.77120911	-1.0700304
##	[643,]	-0.70083518	0.4376140	0.4696543	1.77706090	-0.2828995
##	[644,]	-0.70083518	-0.2752733	1.1349430	0.07821423	-0.2828995
##	[645,]	-0.70083518	-1.7010481	0.4696543	2.62648423	1.2913622
##	[646,]	0.07616101	1.1505014	1.1349430	2.62648423	1.2913622
##	[647,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[648,]	-0.70083518	0.4376140	-1.5262117	0.92763756	0.5042314
##	[649,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-1.0700304
##	[650,]	0.85315721	-0.2752733	-0.8609231	-0.77120911	1.2913622
##	[651,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[652,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	-1.0700304
##	[653,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[654,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-0.2828995
##	[655,]	-0.70083518	1.1505014	0.4696543	0.07821423	0.5042314
##	[656,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[657,]	1.63015340	1.1505014	1.1349430	0.92763756	-0.2828995
##	[658,]	0.07616101	0.4376140	-1.5262117	0.07821423	-1.0700304
##	[659,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[660,]	0.85315721	1.1505014	-1.5262117	0.07821423	-1.0700304
##	[661,]	1.63015340	-0.2752733	-0.8609231	-0.77120911	1.2913622
##	[662,]	1.63015340	0.4376140	-0.8609231	0.07821423	0.5042314
##	[663,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[664,]	0.85315721	0.4376140	0.4696543	1.77706090	-1.0700304
##	[665,]	0.07616101	0.4376140	0.4696543	1.77706090	0.5042314
##	[666,]	-0.70083518	0.4376140	-0.1956344	0.07821423	-1.0700304
##	[667,]	1.63015340	1.1505014	-0.1956344	-0.77120911	-1.0700304
##	[668,]	-0.70083518	1.1505014	-0.1956344	1.77706090	-1.0700304
##	[669,]	1.63015340	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[670,]	0.07616101	0.4376140	0.4696543	0.07821423	-0.2828995
##	[671,]	-0.70083518	-0.9881607	-0.1956344	0.07821423	-0.2828995
##	[672,]	-0.70083518	-0.9881607	0.4696543	0.07821423	1.2913622

##	[673,]	-0.70083518	0.4376140	0.4696543	-0.77120911	0.5042314
##	[674,]	0.07616101	0.4376140	-0.8609231	0.92763756	1.2913622
##	[675,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[676,]	0.85315721	-0.2752733	-1.5262117	0.92763756	1.2913622
##	[677,]	-0.70083518	1.1505014	1.1349430	0.07821423	1.2913622
##	[678,]	-0.70083518	-0.2752733	-0.1956344	0.92763756	0.5042314
##	[679,]	-0.70083518	1.1505014	0.4696543	0.07821423	-1.0700304
##	[680,]	0.85315721	-1.7010481	1.1349430	0.92763756	-0.2828995
##	[681,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[682,]	-0.70083518	-1.7010481	1.1349430	1.77706090	-1.0700304
##	[683,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	-0.2828995
##	[684,]	-0.70083518	-0.2752733	-0.1956344	2.62648423	0.5042314
##	[685,]	0.07616101	1.1505014	0.4696543	2.62648423	1.2913622
##	[686,]	1.63015340	-0.2752733	-0.1956344	0.07821423	1.2913622
##	[687,]	0.85315721	-0.2752733	-0.1956344	0.92763756	0.5042314
##	[688,]	0.07616101	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[689,]	0.85315721	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[690,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[691,]	0.07616101	1.1505014	1.1349430	0.07821423	-0.2828995
##	[692,]	-0.70083518	-1.7010481	0.4696543	-0.77120911	-0.2828995
##	[693,]	2.40714959	1.1505014	0.4696543	-0.77120911	-0.2828995
##	[694,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[695,]	-0.70083518	0.4376140	1.1349430	-0.77120911	-0.2828995
##	[696,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	0.5042314
##	[697,]	0.85315721	-0.9881607	-0.1956344	-0.77120911	-1.0700304
##	[698,]	1.63015340	0.4376140	-1.5262117	0.07821423	0.5042314
##	[699,]	0.07616101	-0.9881607	1.1349430	0.92763756	2.0784931
##	[700,]	-0.70083518	0.4376140	1.1349430	2.62648423	1.2913622
##	[701,]	-0.70083518	-0.9881607	-1.5262117	1.77706090	-0.2828995
##	[702,]	0.07616101	-1.7010481	1.1349430	0.07821423	-1.0700304
##	[703,]	0.07616101	-0.2752733	-1.5262117	-0.77120911	-1.0700304
##	[704,]	-0.70083518	1.1505014	1.1349430	0.92763756	0.5042314
##	[705,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	0.5042314
##	[706,]	0.85315721	1.1505014	1.1349430	0.07821423	0.5042314
##	[707,]	-0.70083518	1.1505014	1.1349430	0.07821423	-0.2828995
##	[708,]	0.07616101	-1.7010481	1.1349430	-0.77120911	-0.2828995
##	[709,]	-0.70083518	-0.9881607	-0.1956344	-0.77120911	-1.0700304
##	[710,]	-0.70083518	-1.7010481	-0.1956344	-0.77120911	1.2913622
##	[711,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	-1.0700304
##	[712,]	-0.70083518	-0.2752733	-0.8609231	0.07821423	0.5042314
##	[713,]	-0.70083518	0.4376140	-0.1956344	0.07821423	0.5042314
##	[714,]	1.63015340	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[715,]	-0.70083518	-0.2752733	1.1349430	2.62648423	1.2913622
##	[716,]	-0.70083518	0.4376140	1.1349430	0.07821423	-1.0700304
##	[717,]	0.85315721	0.4376140	-0.1956344	0.07821423	-1.0700304
##	[718,]	0.07616101	0.4376140	-1.5262117	0.92763756	-1.0700304
##	[719,]	0.07616101	1.1505014	1.1349430	0.92763756	0.5042314
##	[720,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	-0.2828995
##	[721,]	2.40714959	-0.2752733	1.1349430	2.62648423	0.5042314
##	[722,]	-0.70083518	1.1505014	-1.5262117	0.92763756	-1.0700304

##	[723,]	2.40714959	-0.9881607	0.4696543	-0.77120911	-1.0700304
##	[724,]	-0.70083518	0.4376140	-1.5262117	0.07821423	-1.0700304
##	[725,]	-0.70083518	-0.2752733	-0.8609231	-0.77120911	0.5042314
##	[726,]	2.40714959	0.4376140	-0.1956344	-0.77120911	1.2913622
##	[727,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[728,]	0.85315721	-1.7010481	1.1349430	-0.77120911	-0.2828995
##	[729,]	0.07616101	1.1505014	1.1349430	-0.77120911	2.0784931
##	[730,]	0.07616101	1.1505014	1.1349430	0.07821423	-1.0700304
##	[731,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[732,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	1.2913622
##	[733,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	-1.0700304
##	[734,]	0.07616101	1.1505014	1.1349430	1.77706090	-0.2828995
##	[735,]	-0.70083518	0.4376140	0.4696543	0.07821423	-1.0700304
##	[736,]	0.07616101	-1.7010481	-1.5262117	0.92763756	0.5042314
##	[737,]	0.07616101	0.4376140	-0.1956344	-0.77120911	0.5042314
##	[738,]	1.63015340	-0.2752733	0.4696543	0.07821423	0.5042314
##	[739,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[740,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[741,]	0.07616101	-0.2752733	1.1349430	0.92763756	1.2913622
##	[742,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[743,]	1.63015340	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[744,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-1.0700304
##	[745,]	0.85315721	1.1505014	-1.5262117	0.07821423	-1.0700304
##	[746,]	-0.70083518	-0.2752733	-0.8609231	-0.77120911	-1.0700304
##	[747,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	0.5042314
##	[748,]	2.40714959	-0.9881607	0.4696543	2.62648423	-0.2828995
##	[749,]	2.40714959	-1.7010481	0.4696543	2.62648423	-0.2828995
##	[750,]	0.85315721	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[751,]	0.85315721	-0.9881607	1.1349430	1.77706090	-0.2828995
##	[752,]	0.07616101	-1.7010481	-0.8609231	-0.77120911	2.0784931
##	[753,]	-0.70083518	-0.9881607	-0.1956344	0.07821423	2.0784931
##	[754,]	-0.70083518	-0.9881607	-1.5262117	0.07821423	-0.2828995
##	[755,]	0.07616101	0.4376140	0.4696543	0.07821423	0.5042314
##	[756,]	1.63015340	-1.7010481	1.1349430	-0.77120911	1.2913622
##	[757,]	0.07616101	-0.2752733	-0.8609231	0.07821423	0.5042314
##	[758,]	-0.70083518	0.4376140	1.1349430	-0.77120911	-0.2828995
##	[759,]	-0.70083518	1.1505014	1.1349430	0.92763756	-1.0700304
##	[760,]	2.40714959	-0.2752733	0.4696543	2.62648423	0.5042314
##	[761,]	-0.70083518	-1.7010481	0.4696543	-0.77120911	0.5042314
##	[762,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[763,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[764,]	0.85315721	1.1505014	1.1349430	0.92763756	-1.0700304
##	[765,]	0.07616101	-0.2752733	-0.8609231	1.77706090	-1.0700304
##	[766,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[767,]	2.40714959	1.1505014	0.4696543	2.62648423	1.2913622
##	[768,]	2.40714959	1.1505014	-0.1956344	1.77706090	1.2913622
##	[769,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-0.2828995
##	[770,]	1.63015340	0.4376140	0.4696543	1.77706090	1.2913622
##	[771,]	0.07616101	-1.7010481	-0.8609231	0.92763756	1.2913622
##	[772,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304

##	[773,]	0.07616101	-0.2752733	-0.1956344	0.92763756	1.2913622
##	[774,]	0.07616101	-0.9881607	0.4696543	-0.77120911	0.5042314
##	[775,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-1.0700304
##	[776,]	1.63015340	-0.2752733	0.4696543	1.77706090	1.2913622
##	[777,]	2.40714959	-1.7010481	1.1349430	0.92763756	0.5042314
##	[778,]	-0.70083518	0.4376140	1.1349430	-0.77120911	1.2913622
##	[779,]	-0.70083518	1.1505014	1.1349430	-0.77120911	2.0784931
##	[780,]	0.07616101	0.4376140	1.1349430	2.62648423	0.5042314
##	[781,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[782,]	0.07616101	-1.7010481	1.1349430	2.62648423	-0.2828995
##	[783,]	2.40714959	-0.2752733	-0.1956344	1.77706090	-0.2828995
##	[784,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	1.2913622
##	[785,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	0.5042314
##	[786,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[787,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	-1.0700304
##	[788,]	-0.70083518	0.4376140	1.1349430	-0.77120911	0.5042314
##	[789,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[790,]	-0.70083518	1.1505014	-1.5262117	0.92763756	2.0784931
##	[791,]	2.40714959	-0.9881607	-0.8609231	0.07821423	-1.0700304
##	[792,]	1.63015340	-1.7010481	-0.1956344	-0.77120911	-1.0700304
##	[793,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	0.5042314
##	[794,]	0.07616101	0.4376140	-0.8609231	0.92763756	1.2913622
##	[795,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[796,]	0.07616101	-0.9881607	0.4696543	-0.77120911	2.0784931
##	[797,]	1.63015340	0.4376140	0.4696543	2.62648423	1.2913622
##	[798,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	2.0784931
##	[799,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	0.5042314
##	[800,]	0.85315721	-0.2752733	-0.8609231	1.77706090	0.5042314
##	[801,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	-1.0700304
##	[802,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[803,]	0.85315721	0.4376140	1.1349430	0.07821423	-0.2828995
##	[804,]	-0.70083518	0.4376140	1.1349430	0.92763756	0.5042314
##	[805,]	2.40714959	1.1505014	0.4696543	1.77706090	0.5042314
##	[806,]	1.63015340	-0.2752733	0.4696543	-0.77120911	2.0784931
##	[807,]	-0.70083518	-0.9881607	1.1349430	2.62648423	-1.0700304
##	[808,]	-0.70083518	0.4376140	-0.8609231	0.07821423	0.5042314
##	[809,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[810,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-1.0700304
##	[811,]	2.40714959	0.4376140	-0.1956344	0.07821423	1.2913622
##	[812,]	1.63015340	-0.2752733	0.4696543	0.92763756	-1.0700304
##	[813,]	0.85315721	1.1505014	1.1349430	2.62648423	-1.0700304
##	[814,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[815,]	0.85315721	-0.2752733	-0.1956344	0.07821423	0.5042314
##	[816,]	-0.70083518	-1.7010481	1.1349430	0.07821423	-1.0700304
##	[817,]	-0.70083518	0.4376140	-0.1956344	2.62648423	2.0784931
##	[818,]	1.63015340	1.1505014	1.1349430	1.77706090	-1.0700304
##	[819,]	-0.70083518	1.1505014	1.1349430	2.62648423	-0.2828995
##	[820,]	-0.70083518	0.4376140	-1.5262117	0.07821423	-0.2828995
##	[821,]	-0.70083518	-0.9881607	-0.1956344	-0.77120911	1.2913622
##	[822,]	0.85315721	-1.7010481	-1.5262117	-0.77120911	0.5042314

##	[823,]	0.85315721	-0.2752733	-1.5262117	0.07821423	1.2913622
##	[824,]	2.40714959	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[825,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[826,]	-0.70083518	-0.2752733	-1.5262117	0.92763756	-1.0700304
##	[827,]	0.07616101	1.1505014	-0.8609231	0.07821423	0.5042314
##	[828,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	1.2913622
##	[829,]	0.07616101	-0.2752733	0.4696543	-0.77120911	0.5042314
##	[830,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	-0.2828995
##	[831,]	0.07616101	-0.9881607	1.1349430	0.07821423	-1.0700304
##	[832,]	0.07616101	0.4376140	-1.5262117	0.07821423	1.2913622
##	[833,]	0.85315721	-0.9881607	-1.5262117	2.62648423	-1.0700304
##	[834,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	-1.0700304
##	[835,]	-0.70083518	-0.2752733	1.1349430	0.07821423	-0.2828995
##	[836,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[837,]	0.07616101	1.1505014	1.1349430	-0.77120911	1.2913622
##	[838,]	-0.70083518	-0.2752733	1.1349430	0.07821423	-1.0700304
##	[839,]	-0.70083518	1.1505014	0.4696543	-0.77120911	-0.2828995
##	[840,]	-0.70083518	-1.7010481	0.4696543	-0.77120911	0.5042314
##	[841,]	0.85315721	0.4376140	-0.1956344	0.07821423	2.0784931
##	[842,]	2.40714959	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[843,]	-0.70083518	1.1505014	-0.1956344	0.07821423	-1.0700304
##	[844,]	0.07616101	1.1505014	1.1349430	0.92763756	1.2913622
##	[845,]	2.40714959	1.1505014	1.1349430	2.62648423	0.5042314
##	[846,]	0.85315721	-0.9881607	-0.1956344	-0.77120911	1.2913622
##	[847,]	-0.70083518	-0.9881607	-0.8609231	0.07821423	-1.0700304
##	[848,]	0.85315721	-1.7010481	-0.1956344	0.07821423	-0.2828995
##	[849,]	-0.70083518	1.1505014	-1.5262117	0.07821423	-1.0700304
##	[850,]	1.63015340	0.4376140	1.1349430	0.92763756	-0.2828995
##	[851,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	1.2913622
##	[852,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[853,]	-0.70083518	1.1505014	1.1349430	0.07821423	2.0784931
##	[854,]	1.63015340	1.1505014	-0.1956344	1.77706090	0.5042314
##	[855,]	-0.70083518	1.1505014	0.4696543	-0.77120911	0.5042314
##	[856,]	-0.70083518	0.4376140	0.4696543	0.92763756	-1.0700304
##	[857,]	-0.70083518	1.1505014	0.4696543	0.07821423	2.0784931
##	[858,]	0.07616101	-0.9881607	-1.5262117	-0.77120911	1.2913622
##	[859,]	0.07616101	1.1505014	-0.1956344	-0.77120911	-1.0700304
##	[860,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-0.2828995
##	[861,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-1.0700304
##	[862,]	0.07616101	0.4376140	-1.5262117	-0.77120911	1.2913622
##	[863,]	-0.70083518	-1.7010481	1.1349430	-0.77120911	1.2913622
##	[864,]	0.07616101	-1.7010481	-1.5262117	-0.77120911	1.2913622
##	[865,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[866,]	1.63015340	-0.9881607	-0.1956344	0.07821423	0.5042314
##	[867,]	-0.70083518	-0.2752733	1.1349430	-0.77120911	-0.2828995
##	[868,]	-0.70083518	0.4376140	-1.5262117	0.07821423	-0.2828995
##	[869,]	1.63015340	0.4376140	1.1349430	0.07821423	0.5042314
##	[870,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	-0.2828995
##	[871,]	-0.70083518	-0.9881607	-0.8609231	0.92763756	-0.2828995
##	[872,]	-0.70083518	-0.2752733	-1.5262117	0.07821423	-1.0700304

##	[873,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-0.2828995
##	[874,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[875,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[876,]	-0.70083518	-1.7010481	1.1349430	0.92763756	0.5042314
##	[877,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[878,]	0.85315721	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[879,]	0.85315721	0.4376140	1.1349430	-0.77120911	1.2913622
##	[880,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[881,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[882,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[883,]	0.85315721	1.1505014	0.4696543	2.62648423	0.5042314
##	[884,]	-0.70083518	-0.2752733	-1.5262117	0.07821423	0.5042314
##	[885,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	2.0784931
##	[886,]	-0.70083518	-0.2752733	-1.5262117	2.62648423	1.2913622
##	[887,]	-0.70083518	-1.7010481	0.4696543	-0.77120911	-1.0700304
##	[888,]	0.85315721	-0.2752733	-0.1956344	0.07821423	1.2913622
##	[889,]	-0.70083518	1.1505014	0.4696543	0.07821423	1.2913622
##	[890,]	2.40714959	-1.7010481	-0.1956344	2.62648423	2.0784931
##	[891,]	-0.70083518	1.1505014	1.1349430	-0.77120911	2.0784931
##	[892,]	-0.70083518	-0.9881607	0.4696543	0.07821423	0.5042314
##	[893,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	-1.0700304
##	[894,]	0.07616101	-0.2752733	0.4696543	0.07821423	0.5042314
##	[895,]	0.07616101	0.4376140	1.1349430	0.07821423	0.5042314
##	[896,]	-0.70083518	1.1505014	1.1349430	0.07821423	-0.2828995
##	[897,]	1.63015340	-0.2752733	-0.8609231	-0.77120911	-1.0700304
##	[898,]	0.85315721	-0.9881607	-0.1956344	0.07821423	0.5042314
##	[899,]	-0.70083518	-0.2752733	-0.1956344	1.77706090	-1.0700304
##	[900,]	0.85315721	-0.2752733	-0.1956344	0.92763756	-1.0700304
##	[901,]	-0.70083518	0.4376140	1.1349430	0.07821423	1.2913622
##	[902,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-1.0700304
##	[903,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[904,]	0.85315721	1.1505014	-0.8609231	0.92763756	1.2913622
##	[905,]	-0.70083518	-0.9881607	0.4696543	0.07821423	2.0784931
##	[906,]	-0.70083518	1.1505014	1.1349430	-0.77120911	0.5042314
##	[907,]	-0.70083518	0.4376140	-1.5262117	2.62648423	-1.0700304
##	[908,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	1.2913622
##	[909,]	0.85315721	-0.2752733	0.4696543	0.07821423	0.5042314
##	[910,]	1.63015340	0.4376140	0.4696543	1.77706090	1.2913622
##	[911,]	-0.70083518	1.1505014	-0.8609231	2.62648423	1.2913622
##	[912,]	2.40714959	-0.9881607	1.1349430	-0.77120911	-0.2828995
##	[913,]	0.07616101	0.4376140	0.4696543	0.07821423	0.5042314
##	[914,]	0.85315721	-1.7010481	0.4696543	0.92763756	-1.0700304
##	[915,]	2.40714959	-0.2752733	0.4696543	2.62648423	-0.2828995
##	[916,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	2.0784931
##	[917,]	-0.70083518	-0.2752733	-0.8609231	-0.77120911	-0.2828995
##	[918,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	0.5042314
##	[919,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[920,]	1.63015340	1.1505014	1.1349430	0.92763756	-0.2828995
##	[921,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	0.5042314
##	[922,]	0.85315721	0.4376140	1.1349430	-0.77120911	-0.2828995

##	[923,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	0.5042314
##	[924,]	0.07616101	-1.7010481	-0.8609231	0.92763756	1.2913622
##	[925,]	-0.70083518	-0.9881607	1.1349430	-0.77120911	0.5042314
##	[926,]	0.07616101	1.1505014	0.4696543	0.92763756	2.0784931
##	[927,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-1.0700304
##	[928,]	-0.70083518	-0.2752733	1.1349430	0.07821423	0.5042314
##	[929,]	-0.70083518	-0.2752733	-1.5262117	0.07821423	1.2913622
##	[930,]	1.63015340	-0.9881607	0.4696543	0.92763756	1.2913622
##	[931,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	0.5042314
##	[932,]	-0.70083518	0.4376140	1.1349430	-0.77120911	0.5042314
##	[933,]	-0.70083518	1.1505014	-0.1956344	1.77706090	1.2913622
##	[934,]	0.07616101	0.4376140	-0.8609231	0.92763756	0.5042314
##	[935,]	-0.70083518	-1.7010481	-0.8609231	-0.77120911	-1.0700304
##	[936,]	-0.70083518	1.1505014	-0.1956344	-0.77120911	-0.2828995
##	[937,]	0.07616101	-0.2752733	-0.1956344	0.07821423	0.5042314
##	[938,]	-0.70083518	1.1505014	-0.8609231	-0.77120911	-1.0700304
##	[939,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	1.2913622
##	[940,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-0.2828995
##	[941,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	-1.0700304
##	[942,]	0.85315721	0.4376140	-0.8609231	0.07821423	1.2913622
##	[943,]	0.85315721	0.4376140	1.1349430	0.07821423	2.0784931
##	[944,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	0.5042314
##	[945,]	0.07616101	0.4376140	1.1349430	0.07821423	0.5042314
##	[946,]	-0.70083518	1.1505014	-0.1956344	0.92763756	-1.0700304
##	[947,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	0.5042314
##	[948,]	0.07616101	-0.2752733	-0.1956344	0.07821423	0.5042314
##	[949,]	-0.70083518	-1.7010481	0.4696543	0.07821423	0.5042314
##	[950,]	0.85315721	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[951,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[952,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-1.0700304
##	[953,]	1.63015340	-0.2752733	-0.8609231	-0.77120911	-1.0700304
##	[954,]	0.07616101	-1.7010481	0.4696543	0.92763756	1.2913622
##	[955,]	0.85315721	-0.9881607	0.4696543	-0.77120911	1.2913622
##	[956,]	0.85315721	-1.7010481	1.1349430	-0.77120911	-1.0700304
##	[957,]	-0.70083518	-1.7010481	-1.5262117	-0.77120911	-0.2828995
##	[958,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[959,]	-0.70083518	1.1505014	-0.8609231	0.92763756	2.0784931
##	[960,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[961,]	-0.70083518	-0.2752733	0.4696543	-0.77120911	-0.2828995
##	[962,]	-0.70083518	1.1505014	1.1349430	2.62648423	1.2913622
##	[963,]	1.63015340	-0.9881607	-1.5262117	0.07821423	-0.2828995
##	[964,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	1.2913622
##	[965,]	0.07616101	-0.9881607	1.1349430	0.92763756	-1.0700304
##	[966,]	2.40714959	-0.2752733	1.1349430	0.07821423	2.0784931
##	[967,]	2.40714959	-1.7010481	1.1349430	0.07821423	2.0784931
##	[968,]	-0.70083518	1.1505014	0.4696543	0.07821423	-1.0700304
##	[969,]	-0.70083518	1.1505014	0.4696543	0.07821423	0.5042314
##	[970,]	-0.70083518	-0.2752733	-0.8609231	-0.77120911	-1.0700304
##	[971,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[972,]	-0.70083518	0.4376140	0.4696543	-0.77120911	-1.0700304

##	[973,]	1.63015340	1.1505014	-0.1956344	0.07821423	-1.0700304
##	[974,]	1.63015340	-1.7010481	-1.5262117	0.92763756	-0.2828995
##	[975,]	-0.70083518	1.1505014	1.1349430	-0.77120911	-0.2828995
##	[976,]	2.40714959	1.1505014	0.4696543	0.07821423	-1.0700304
##	[977,]	0.07616101	-0.2752733	0.4696543	-0.77120911	0.5042314
##	[978,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	-0.2828995
##	[979,]	-0.70083518	1.1505014	-1.5262117	-0.77120911	0.5042314
##	[980,]	0.07616101	-1.7010481	-0.1956344	-0.77120911	0.5042314
##	[981,]	0.85315721	-1.7010481	-1.5262117	-0.77120911	-0.2828995
##	[982,]	1.63015340	-0.2752733	-1.5262117	-0.77120911	-0.2828995
##	[983,]	-0.70083518	0.4376140	-1.5262117	-0.77120911	0.5042314
##	[984,]	-0.70083518	1.1505014	0.4696543	-0.77120911	0.5042314
##	[985,]	-0.70083518	-0.2752733	-1.5262117	-0.77120911	-1.0700304
##	[986,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	0.5042314
##	[987,]	-0.70083518	-1.7010481	0.4696543	0.07821423	-1.0700304
##	[988,]	-0.70083518	0.4376140	-0.1956344	-0.77120911	-1.0700304
##	[989,]	0.85315721	-0.2752733	1.1349430	2.62648423	-1.0700304
##	[990,]	2.40714959	-0.9881607	1.1349430	0.07821423	-1.0700304
##	[991,]	-0.70083518	0.4376140	-0.8609231	-0.77120911	-1.0700304
##	[992,]	-0.70083518	-0.9881607	-1.5262117	-0.77120911	-0.2828995
##	[993,]	2.40714959	0.4376140	-1.5262117	-0.77120911	-1.0700304
##	[994,]	0.07616101	-0.2752733	-0.1956344	-0.77120911	1.2913622
##	[995,]	0.07616101	-0.2752733	-0.8609231	-0.77120911	-0.2828995
##	[996,]	-0.70083518	-0.2752733	-0.1956344	-0.77120911	-1.0700304
##	[997,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	-1.0700304
##	[998,]	0.07616101	1.1505014	1.1349430	0.07821423	0.5042314
##	[999,]	1.63015340	-1.7010481	1.1349430	0.07821423	0.5042314
##	[1000,]	2.40714959	1.1505014	1.1349430	0.07821423	-1.0700304
##	[1001,]	-0.70083518	1.1505014	1.1349430	0.07821423	0.5042314
##	[1002,]	-0.70083518	-0.9881607	0.4696543	-0.77120911	0.5042314
##	[1003,]	1.63015340	-0.9881607	-1.5262117	-0.77120911	-1.0700304
##	[1004,]	-0.70083518	0.4376140	-0.1956344	0.07821423	-1.0700304
##	[1005,]	-0.70083518	1.1505014	-0.8609231	0.07821423	-1.0700304
##	[1006,]	1.63015340	0.4376140	0.4696543	0.07821423	1.2913622
##	[1007,]	-0.70083518	-1.7010481	1.1349430	2.62648423	-1.0700304
##	[1008,]	-0.70083518	-0.9881607	-0.8609231	-0.77120911	-1.0700304
##	[1009,]	1.63015340	-0.9881607	0.4696543	-0.77120911	0.5042314
##	[1010,]	0.07616101	1.1505014	0.4696543	2.62648423	0.5042314
##		Shopping	Science.and.technology	Theatre	Fun.with.friends	
##	[1,]	0.5612378	0.6002088	-0.76692202	0.5998996	
##	[2,]	-0.2163344	-0.1779823	-0.76692202	-0.7555783	
##	[3,]	0.5612378	-0.9561735	1.49136148	0.5998996	
##	[4,]	0.5612378	-0.1779823	-1.51968319	-3.4665342	
##	[5,]	-0.2163344	-0.1779823	-0.76692202	-0.7555783	
##	[6,]	-0.9939067	-0.1779823	-1.51968319	-2.1110562	
##	[7,]	-0.2163344	0.6002088	-0.01416085	0.5998996	
##	[8,]	-0.2163344	-0.9561735	-0.76692202	-0.7555783	
##	[9,]	-0.9939067	-1.7343646	1.49136148	-0.7555783	
##	[10,]	0.5612378	-0.1779823	1.49136148	0.5998996	
##	[11,]	1.3388100	0.6002088	-0.76692202	-0.7555783	

##	[12,]	-0.2163344	-0.1779823	-1.51968319	-2.1110562
##	[13,]	-0.9939067	-0.1779823	-0.76692202	-0.7555783
##	[14,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[15,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[16,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[17,]	0.5612378	-0.9561735	-1.51968319	0.5998996
##	[18,]	-0.2163344	0.6002088	-0.01416085	-2.1110562
##	[19,]	-0.9939067	1.3783999	-1.51968319	-2.1110562
##	[20,]	-0.2163344	0.6002088	-0.76692202	0.5998996
##	[21,]	-1.7714789	1.3783999	-0.76692202	-0.7555783
##	[22,]	-1.7714789	1.3783999	0.73860031	0.5998996
##	[23,]	-1.7714789	-0.1779823	-0.76692202	0.5998996
##	[24,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[25,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[26,]	1.3388100	-1.7343646	-0.01416085	0.5998996
##	[27,]	0.5612378	-0.1779823	-1.51968319	-0.7555783
##	[28,]	1.3388100	-0.9561735	-1.51968319	-0.7555783
##	[29,]	1.3388100	-0.1779823	-1.51968319	0.5998996
##	[30,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[31,]	0.5612378	0.6002088	-0.76692202	0.5998996
##	[32,]	-0.9939067	-1.7343646	-0.01416085	-0.7555783
##	[33,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[34,]	-0.2163344	-0.1779823	0.73860031	0.5998996
##	[35,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[36,]	0.5612378	-0.9561735	1.49136148	0.5998996
##	[37,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[38,]	0.5612378	0.6002088	-1.51968319	0.5998996
##	[39,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[40,]	0.5612378	1.3783999	-0.76692202	-2.1110562
##	[41,]	1.3388100	-0.1779823	-1.51968319	-3.4665342
##	[42,]	-1.7714789	-0.1779823	-1.51968319	0.5998996
##	[43,]	0.5612378	0.6002088	-0.76692202	0.5998996
##	[44,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[45,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[46,]	-0.2163344	1.3783999	-0.76692202	0.5998996
##	[47,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[48,]	0.5612378	-0.9561735	0.73860031	0.5998996
##	[49,]	-0.2163344	-0.1779823	0.73860031	-2.1110562
##	[50,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[51,]	0.5612378	0.6002088	-0.76692202	-0.7555783
##	[52,]	-0.2163344	1.3783999	-0.76692202	-0.7555783
##	[53,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[54,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[55,]	-0.9939067	-0.1779823	1.49136148	0.5998996
##	[56,]	-0.2163344	0.6002088	-0.76692202	-0.7555783
##	[57,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[58,]	1.3388100	-0.1779823	1.49136148	0.5998996
##	[59,]	0.5612378	0.6002088	-1.51968319	0.5998996
##	[60,]	-1.7714789	-1.7343646	-1.51968319	-2.1110562
##	[61,]	-0.9939067	0.6002088	0.73860031	-0.7555783

##	[62,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[63,]	-0.9939067	1.3783999	-0.76692202	0.5998996
##	[64,]	-0.2163344	0.6002088	-0.76692202	0.5998996
##	[65,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[66,]	-0.9939067	-0.9561735	-1.51968319	-2.1110562
##	[67,]	-0.2163344	0.6002088	-0.76692202	-0.7555783
##	[68,]	-0.2163344	-0.9561735	-0.01416085	0.5998996
##	[69,]	-0.2163344	0.6002088	-0.01416085	0.5998996
##	[70,]	1.3388100	-0.9561735	-0.76692202	0.5998996
##	[71,]	0.5612378	-0.1779823	-1.51968319	0.5998996
##	[72,]	0.5612378	0.6002088	-1.51968319	0.5998996
##	[73,]	-0.2163344	-1.7343646	-0.76692202	0.5998996
##	[74,]	1.3388100	1.3783999	-0.76692202	0.5998996
##	[75,]	-0.2163344	-0.9561735	-0.76692202	-0.7555783
##	[76,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[77,]	0.5612378	1.3783999	-1.51968319	0.5998996
##	[78,]	1.3388100	-0.1779823	1.49136148	0.5998996
##	[79,]	-0.9939067	1.3783999	1.49136148	0.5998996
##	[80,]	1.3388100	0.6002088	-0.01416085	0.5998996
##	[81,]	0.5612378	-0.1779823	-0.76692202	0.5998996
##	[82,]	-0.2163344	1.3783999	-0.76692202	0.5998996
##	[83,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[84,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[85,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[86,]	0.5612378	1.3783999	1.49136148	-0.7555783
##	[87,]	-0.9939067	1.3783999	1.49136148	0.5998996
##	[88,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[89,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[90,]	-0.2163344	-1.7343646	0.73860031	-0.7555783
##	[91,]	0.5612378	-0.1779823	-0.76692202	0.5998996
##	[92,]	-0.2163344	-1.7343646	-0.01416085	0.5998996
##	[93,]	-0.2163344	-0.9561735	0.73860031	-0.7555783
##	[94,]	-1.7714789	1.3783999	-1.51968319	0.5998996
##	[95,]	-0.9939067	0.6002088	-0.76692202	-0.7555783
##	[96,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[97,]	-1.7714789	-1.7343646	-1.51968319	0.5998996
##	[98,]	-1.7714789	0.6002088	-1.51968319	-2.1110562
##	[99,]	-0.2163344	1.3783999	-1.51968319	0.5998996
##	[100,]	1.3388100	-0.1779823	-0.01416085	-0.7555783
##	[101,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[102,]	-1.7714789	-0.1779823	-1.51968319	0.5998996
##	[103,]	-1.7714789	-0.9561735	0.73860031	0.5998996
##	[104,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[105,]	-0.9939067	-0.1779823	-0.01416085	-0.7555783
##	[106,]	-0.2163344	0.6002088	-0.01416085	-2.1110562
##	[107,]	-0.9939067	1.3783999	-0.76692202	0.5998996
##	[108,]	-0.2163344	-0.9561735	1.49136148	0.5998996
##	[109,]	0.5612378	-0.9561735	-0.01416085	-3.4665342
##	[110,]	-0.9939067	0.6002088	-1.51968319	-0.7555783
##	[111,]	-0.9939067	0.6002088	-1.51968319	-0.7555783

##	[112,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[113,]	-0.2163344	1.3783999	1.49136148	-0.7555783
##	[114,]	0.5612378	-0.9561735	-0.76692202	-0.7555783
##	[115,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[116,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[117,]	-0.2163344	-1.7343646	-0.76692202	-0.7555783
##	[118,]	-0.2163344	-0.1779823	-0.76692202	-3.4665342
##	[119,]	-0.9939067	-0.1779823	-0.76692202	-0.7555783
##	[120,]	-1.7714789	-0.9561735	-0.76692202	-2.1110562
##	[121,]	-1.7714789	1.3783999	1.49136148	0.5998996
##	[122,]	-0.9939067	0.6002088	-1.51968319	0.5998996
##	[123,]	-0.2163344	-1.7343646	1.49136148	0.5998996
##	[124,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[125,]	-1.7714789	1.3783999	0.73860031	-0.7555783
##	[126,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[127,]	0.5612378	-0.9561735	-0.76692202	0.5998996
##	[128,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[129,]	-0.9939067	1.3783999	1.49136148	0.5998996
##	[130,]	1.3388100	-0.1779823	-1.51968319	0.5998996
##	[131,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[132,]	0.5612378	0.6002088	-0.01416085	0.5998996
##	[133,]	-0.9939067	0.6002088	-0.76692202	-2.1110562
##	[134,]	-0.2163344	-1.7343646	1.49136148	-0.7555783
##	[135,]	-0.9939067	0.6002088	0.73860031	-0.7555783
##	[136,]	-0.9939067	1.3783999	0.73860031	0.5998996
##	[137,]	-0.2163344	1.3783999	1.49136148	0.5998996
##	[138,]	-0.2163344	-0.9561735	-0.76692202	-2.1110562
##	[139,]	-0.2163344	-0.9561735	-0.76692202	-0.7555783
##	[140,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[141,]	-0.2163344	-0.9561735	0.73860031	-0.7555783
##	[142,]	-1.7714789	1.3783999	-0.01416085	-2.1110562
##	[143,]	1.3388100	1.3783999	0.73860031	-0.7555783
##	[144,]	0.5612378	-1.7343646	-1.51968319	0.5998996
##	[145,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[146,]	-0.9939067	-0.9561735	-0.76692202	-0.7555783
##	[147,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[148,]	-1.7714789	1.3783999	-0.76692202	-3.4665342
##	[149,]	-0.9939067	0.6002088	-0.76692202	-2.1110562
##	[150,]	-0.9939067	0.6002088	-0.76692202	-2.1110562
##	[151,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[152,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[153,]	-0.2163344	0.6002088	-0.76692202	0.5998996
##	[154,]	1.3388100	0.6002088	-0.76692202	-2.1110562
##	[155,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[156,]	-0.2163344	0.6002088	-0.01416085	-2.1110562
##	[157,]	0.5612378	-1.7343646	-1.51968319	-0.7555783
##	[158,]	-0.9939067	-0.1779823	-0.76692202	0.5998996
##	[159,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[160,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[161,]	-1.7714789	0.6002088	-0.76692202	0.5998996

##	[162,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[163,]	-1.7714789	-0.9561735	-1.51968319	-2.1110562
##	[164,]	-1.7714789	-1.7343646	-1.51968319	-2.1110562
##	[165,]	1.3388100	-1.7343646	0.73860031	-0.7555783
##	[166,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[167,]	-0.9939067	-0.1779823	0.73860031	-0.7555783
##	[168,]	-0.9939067	0.6002088	-1.51968319	-2.1110562
##	[169,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[170,]	-0.2163344	-1.7343646	1.49136148	-0.7555783
##	[171,]	-1.7714789	-1.7343646	-0.01416085	0.5998996
##	[172,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[173,]	-1.7714789	1.3783999	-0.01416085	0.5998996
##	[174,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[175,]	1.3388100	1.3783999	1.49136148	-0.7555783
##	[176,]	-1.7714789	-1.7343646	-0.01416085	-2.1110562
##	[177,]	-0.2163344	0.6002088	-0.01416085	-0.7555783
##	[178,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[179,]	-0.2163344	-0.1779823	-0.01416085	-2.1110562
##	[180,]	0.5612378	0.6002088	-0.76692202	-2.1110562
##	[181,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[182,]	-0.9939067	-0.1779823	-0.01416085	-0.7555783
##	[183,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[184,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[185,]	-0.2163344	-0.9561735	1.49136148	-2.1110562
##	[186,]	-0.2163344	-0.9561735	1.49136148	0.5998996
##	[187,]	0.5612378	-1.7343646	0.73860031	-0.7555783
##	[188,]	-1.7714789	-0.9561735	-1.51968319	-3.4665342
##	[189,]	-0.9939067	-0.1779823	-0.01416085	-2.1110562
##	[190,]	-0.9939067	-0.1779823	-1.51968319	-2.1110562
##	[191,]	-0.2163344	-0.1779823	-0.76692202	-0.7555783
##	[192,]	-0.9939067	-1.7343646	1.49136148	-0.7555783
##	[193,]	0.5612378	-1.7343646	-0.76692202	0.5998996
##	[194,]	-0.9939067	-0.1779823	-0.01416085	0.5998996
##	[195,]	-0.9939067	0.6002088	-0.76692202	-0.7555783
##	[196,]	0.5612378	1.3783999	-0.01416085	-0.7555783
##	[197,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[198,]	0.5612378	-1.7343646	0.73860031	0.5998996
##	[199,]	-0.9939067	-0.1779823	-1.51968319	0.5998996
##	[200,]	-0.2163344	0.6002088	-1.51968319	0.5998996
##	[201,]	-0.9939067	0.6002088	-0.76692202	-3.4665342
##	[202,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[203,]	0.5612378	0.6002088	-1.51968319	0.5998996
##	[204,]	0.5612378	-1.7343646	-0.76692202	0.5998996
##	[205,]	-1.7714789	0.6002088	0.73860031	-0.7555783
##	[206,]	-1.7714789	0.6002088	1.49136148	0.5998996
##	[207,]	-1.7714789	0.6002088	1.49136148	-0.7555783
##	[208,]	-0.2163344	0.6002088	-0.01416085	-0.7555783
##	[209,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[210,]	-1.7714789	0.6002088	0.73860031	0.5998996
##	[211,]	1.3388100	0.6002088	0.73860031	0.5998996

##	[212,]	1.3388100	-1.7343646	0.73860031	0.5998996
##	[213,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[214,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[215,]	0.5612378	1.3783999	0.73860031	-0.7555783
##	[216,]	-0.2163344	-1.7343646	-1.51968319	0.5998996
##	[217,]	0.5612378	-1.7343646	-0.76692202	-0.7555783
##	[218,]	-0.9939067	-0.9561735	1.49136148	0.5998996
##	[219,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[220,]	1.3388100	1.3783999	-1.51968319	0.5998996
##	[221,]	-0.2163344	0.6002088	-0.76692202	0.5998996
##	[222,]	-0.9939067	1.3783999	-0.01416085	0.5998996
##	[223,]	0.5612378	-0.1779823	-0.76692202	-2.1110562
##	[224,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[225,]	-0.9939067	0.6002088	-0.76692202	-2.1110562
##	[226,]	-0.9939067	1.3783999	-0.01416085	0.5998996
##	[227,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[228,]	-0.2163344	-0.1779823	1.49136148	-2.1110562
##	[229,]	-0.9939067	0.6002088	0.73860031	0.5998996
##	[230,]	-0.9939067	0.6002088	-0.76692202	-0.7555783
##	[231,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[232,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[233,]	0.5612378	-0.9561735	-1.51968319	0.5998996
##	[234,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[235,]	1.3388100	-0.9561735	-1.51968319	0.5998996
##	[236,]	1.3388100	-1.7343646	0.73860031	0.5998996
##	[237,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[238,]	0.5612378	-0.1779823	-0.76692202	0.5998996
##	[239,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[240,]	0.5612378	-0.1779823	0.73860031	-0.7555783
##	[241,]	-0.9939067	-0.1779823	-0.76692202	-0.7555783
##	[242,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[243,]	1.3388100	-0.9561735	1.49136148	0.5998996
##	[244,]	-0.9939067	1.3783999	-0.01416085	-3.4665342
##	[245,]	1.3388100	-1.7343646	0.73860031	0.5998996
##	[246,]	-0.9939067	-0.1779823	1.49136148	0.5998996
##	[247,]	1.3388100	0.6002088	-0.76692202	0.5998996
##	[248,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[249,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[250,]	0.5612378	0.6002088	-0.01416085	0.5998996
##	[251,]	1.3388100	-1.7343646	-0.01416085	0.5998996
##	[252,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[253,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[254,]	1.3388100	1.3783999	-1.51968319	0.5998996
##	[255,]	1.3388100	-1.7343646	-0.76692202	0.5998996
##	[256,]	-1.7714789	0.6002088	1.49136148	0.5998996
##	[257,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[258,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[259,]	-1.7714789	0.6002088	-0.01416085	0.5998996
##	[260,]	-1.7714789	-0.1779823	1.49136148	0.5998996
##	[261,]	-0.2163344	-0.1779823	-0.01416085	-2.1110562

##	[262,]	1.3388100	-0.9561735	-0.76692202	0.5998996
##	[263,]	-0.2163344	-0.1779823	0.73860031	-0.7555783
##	[264,]	1.3388100	-1.7343646	-0.01416085	0.5998996
##	[265,]	-0.2163344	1.3783999	1.49136148	0.5998996
##	[266,]	0.5612378	-1.7343646	-0.76692202	0.5998996
##	[267,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[268,]	-0.2163344	0.6002088	1.49136148	0.5998996
##	[269,]	1.3388100	0.6002088	-1.51968319	0.5998996
##	[270,]	-0.9939067	1.3783999	-0.76692202	-0.7555783
##	[271,]	1.3388100	-0.9561735	1.49136148	0.5998996
##	[272,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[273,]	-0.9939067	0.6002088	1.49136148	0.5998996
##	[274,]	0.5612378	0.6002088	-0.01416085	0.5998996
##	[275,]	-1.7714789	0.6002088	0.73860031	0.5998996
##	[276,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[277,]	0.5612378	-1.7343646	-0.01416085	0.5998996
##	[278,]	-0.9939067	-0.1779823	-0.76692202	0.5998996
##	[279,]	-0.9939067	1.3783999	-0.76692202	0.5998996
##	[280,]	1.3388100	-1.7343646	-0.76692202	-0.7555783
##	[281,]	1.3388100	-0.9561735	1.49136148	-0.7555783
##	[282,]	-0.9939067	0.6002088	-0.76692202	0.5998996
##	[283,]	0.5612378	-0.9561735	-0.01416085	-0.7555783
##	[284,]	-0.9939067	1.3783999	-0.01416085	-0.7555783
##	[285,]	-1.7714789	-0.9561735	-1.51968319	-2.1110562
##	[286,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[287,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[288,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[289,]	-0.2163344	0.6002088	-1.51968319	-3.4665342
##	[290,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[291,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[292,]	-0.9939067	-0.1779823	0.73860031	-0.7555783
##	[293,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[294,]	-0.9939067	0.6002088	0.73860031	0.5998996
##	[295,]	-0.2163344	-0.9561735	-0.01416085	-2.1110562
##	[296,]	1.3388100	-0.1779823	-0.76692202	-0.7555783
##	[297,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[298,]	-1.7714789	-0.1779823	-0.76692202	0.5998996
##	[299,]	-0.2163344	-0.9561735	-1.51968319	0.5998996
##	[300,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[301,]	-0.2163344	-0.1779823	0.73860031	-3.4665342
##	[302,]	-0.9939067	1.3783999	0.73860031	-0.7555783
##	[303,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[304,]	1.3388100	-0.1779823	-0.01416085	-2.1110562
##	[305,]	0.5612378	-0.1779823	-1.51968319	0.5998996
##	[306,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[307,]	1.3388100	1.3783999	0.73860031	0.5998996
##	[308,]	-1.7714789	1.3783999	-1.51968319	-3.4665342
##	[309,]	0.5612378	0.6002088	-0.76692202	0.5998996
##	[310,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[311,]	0.5612378	-0.1779823	-0.76692202	-0.7555783

##	[312,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[313,]	-1.7714789	-0.9561735	-1.51968319	-0.7555783
##	[314,]	1.3388100	-0.9561735	-1.51968319	-3.4665342
##	[315,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[316,]	1.3388100	0.6002088	-0.01416085	0.5998996
##	[317,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[318,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[319,]	1.3388100	-0.9561735	1.49136148	0.5998996
##	[320,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[321,]	0.5612378	0.6002088	-0.01416085	0.5998996
##	[322,]	0.5612378	-0.1779823	-0.01416085	-0.7555783
##	[323,]	0.5612378	-0.9561735	-0.76692202	-0.7555783
##	[324,]	0.5612378	1.3783999	-0.76692202	-0.7555783
##	[325,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[326,]	-0.2163344	1.3783999	-0.76692202	0.5998996
##	[327,]	-0.9939067	-1.7343646	-0.76692202	0.5998996
##	[328,]	0.5612378	0.6002088	-0.01416085	-3.4665342
##	[329,]	-0.2163344	-1.7343646	-0.01416085	0.5998996
##	[330,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[331,]	-0.2163344	-0.1779823	1.49136148	-0.7555783
##	[332,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[333,]	-0.2163344	-0.1779823	0.73860031	-2.1110562
##	[334,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[335,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[336,]	-0.2163344	1.3783999	1.49136148	0.5998996
##	[337,]	-0.9939067	1.3783999	-1.51968319	-0.7555783
##	[338,]	-1.7714789	1.3783999	-0.76692202	0.5998996
##	[339,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[340,]	0.5612378	-0.9561735	-0.76692202	-2.1110562
##	[341,]	-1.7714789	0.6002088	-0.76692202	-0.7555783
##	[342,]	1.3388100	1.3783999	-1.51968319	0.5998996
##	[343,]	-0.2163344	-0.9561735	-0.01416085	0.5998996
##	[344,]	-0.2163344	-0.1779823	-0.01416085	-0.7555783
##	[345,]	0.5612378	-1.7343646	-1.51968319	-0.7555783
##	[346,]	-0.2163344	-0.9561735	-0.76692202	-0.7555783
##	[347,]	-0.2163344	-0.9561735	-1.51968319	0.5998996
##	[348,]	-0.9939067	0.6002088	-1.51968319	-0.7555783
##	[349,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[350,]	1.3388100	-1.7343646	-0.01416085	0.5998996
##	[351,]	-1.7714789	1.3783999	-1.51968319	0.5998996
##	[352,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[353,]	-1.7714789	-0.9561735	-1.51968319	0.5998996
##	[354,]	0.5612378	-0.9561735	1.49136148	0.5998996
##	[355,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[356,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[357,]	-1.7714789	1.3783999	-0.76692202	-0.7555783
##	[358,]	-0.2163344	-0.9561735	-0.01416085	-2.1110562
##	[359,]	-0.9939067	-0.9561735	-0.76692202	-0.7555783
##	[360,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[361,]	1.3388100	0.6002088	-1.51968319	-0.7555783

##	[362,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[363,]	-0.9939067	0.6002088	1.49136148	0.5998996
##	[364,]	-1.7714789	0.6002088	1.49136148	0.5998996
##	[365,]	0.5612378	-0.1779823	-0.76692202	-0.7555783
##	[366,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[367,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[368,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[369,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[370,]	-0.2163344	-0.1779823	-0.76692202	-2.1110562
##	[371,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[372,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[373,]	-0.2163344	1.3783999	-1.51968319	-3.4665342
##	[374,]	-1.7714789	-0.1779823	-1.51968319	0.5998996
##	[375,]	1.3388100	0.6002088	-0.01416085	0.5998996
##	[376,]	-0.2163344	-0.9561735	0.73860031	-2.1110562
##	[377,]	-0.2163344	-0.9561735	-0.76692202	-0.7555783
##	[378,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[379,]	-0.2163344	-1.7343646	0.73860031	0.5998996
##	[380,]	-0.2163344	1.3783999	0.73860031	-0.7555783
##	[381,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[382,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[383,]	1.3388100	-0.9561735	-0.76692202	0.5998996
##	[384,]	-0.9939067	1.3783999	-0.01416085	0.5998996
##	[385,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[386,]	-0.9939067	1.3783999	0.73860031	0.5998996
##	[387,]	0.5612378	0.6002088	-0.76692202	-0.7555783
##	[388,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[389,]	0.5612378	-0.1779823	-0.01416085	-2.1110562
##	[390,]	1.3388100	-0.9561735	-0.76692202	-0.7555783
##	[391,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[392,]	0.5612378	-1.7343646	0.73860031	0.5998996
##	[393,]	0.5612378	-0.9561735	0.73860031	0.5998996
##	[394,]	-0.9939067	-0.1779823	-1.51968319	-2.1110562
##	[395,]	-0.2163344	-0.1779823	0.73860031	0.5998996
##	[396,]	-0.2163344	1.3783999	-1.51968319	0.5998996
##	[397,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[398,]	1.3388100	-0.1779823	0.73860031	-2.1110562
##	[399,]	1.3388100	1.3783999	-0.01416085	0.5998996
##	[400,]	-0.2163344	0.6002088	1.49136148	0.5998996
##	[401,]	-0.9939067	1.3783999	-0.76692202	-0.7555783
##	[402,]	-0.9939067	-0.9561735	1.49136148	0.5998996
##	[403,]	-0.9939067	0.6002088	-1.51968319	0.5998996
##	[404,]	-1.7714789	-1.7343646	-0.01416085	-0.7555783
##	[405,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[406,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[407,]	-0.9939067	-1.7343646	-0.01416085	-0.7555783
##	[408,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[409,]	-0.2163344	0.6002088	1.49136148	0.5998996
##	[410,]	1.3388100	-0.1779823	-1.51968319	0.5998996
##	[411,]	1.3388100	1.3783999	-1.51968319	0.5998996

##	[412,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[413,]	1.3388100	-1.7343646	-0.01416085	-0.7555783
##	[414,]	-0.9939067	0.6002088	-0.76692202	0.5998996
##	[415,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[416,]	1.3388100	-1.7343646	0.73860031	0.5998996
##	[417,]	-0.2163344	-0.9561735	-0.76692202	0.5998996
##	[418,]	-1.7714789	0.6002088	-0.01416085	0.5998996
##	[419,]	1.3388100	-0.1779823	1.49136148	-2.1110562
##	[420,]	-1.7714789	1.3783999	0.73860031	-0.7555783
##	[421,]	-0.2163344	-0.9561735	0.73860031	0.5998996
##	[422,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[423,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[424,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[425,]	-0.2163344	-0.9561735	-1.51968319	0.5998996
##	[426,]	1.3388100	-0.1779823	1.49136148	0.5998996
##	[427,]	-1.7714789	-1.7343646	0.73860031	0.5998996
##	[428,]	-0.9939067	0.6002088	1.49136148	0.5998996
##	[429,]	1.3388100	-0.9561735	0.73860031	-0.7555783
##	[430,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[431,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[432,]	-0.9939067	1.3783999	0.73860031	0.5998996
##	[433,]	-1.7714789	1.3783999	-0.01416085	0.5998996
##	[434,]	-0.9939067	0.6002088	-0.76692202	0.5998996
##	[435,]	0.5612378	0.6002088	-0.01416085	0.5998996
##	[436,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[437,]	0.5612378	0.6002088	-0.76692202	-0.7555783
##	[438,]	-0.9939067	-0.9561735	-0.76692202	0.5998996
##	[439,]	-0.2163344	1.3783999	-0.76692202	-0.7555783
##	[440,]	-0.2163344	-1.7343646	-1.51968319	0.5998996
##	[441,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[442,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[443,]	-0.2163344	0.6002088	0.73860031	0.5998996
##	[444,]	-0.2163344	-0.9561735	-0.01416085	0.5998996
##	[445,]	-0.9939067	-0.1779823	-0.01416085	0.5998996
##	[446,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[447,]	-0.9939067	-0.9561735	-1.51968319	0.5998996
##	[448,]	-1.7714789	-0.1779823	1.49136148	-2.1110562
##	[449,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[450,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[451,]	-0.2163344	1.3783999	-1.51968319	0.5998996
##	[452,]	-0.2163344	0.6002088	0.73860031	-0.7555783
##	[453,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[454,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[455,]	1.3388100	-0.9561735	-0.76692202	0.5998996
##	[456,]	1.3388100	-0.9561735	-0.01416085	-0.7555783
##	[457,]	-1.7714789	0.6002088	-0.76692202	0.5998996
##	[458,]	-1.7714789	0.6002088	-1.51968319	0.5998996
##	[459,]	1.3388100	-1.7343646	1.49136148	0.5998996
##	[460,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[461,]	-1.7714789	-0.1779823	-1.51968319	0.5998996

##	[462,]	0.5612378	0.6002088	0.73860031	-0.7555783
##	[463,]	-0.9939067	0.6002088	-0.01416085	-0.7555783
##	[464,]	1.3388100	-1.7343646	-0.01416085	0.5998996
##	[465,]	1.3388100	-0.1779823	-0.76692202	-3.4665342
##	[466,]	-0.2163344	0.6002088	0.73860031	-0.7555783
##	[467,]	0.5612378	0.6002088	-1.51968319	0.5998996
##	[468,]	-0.2163344	-1.7343646	-0.76692202	-0.7555783
##	[469,]	0.5612378	0.6002088	-0.76692202	-0.7555783
##	[470,]	-0.9939067	1.3783999	-0.76692202	0.5998996
##	[471,]	-0.2163344	-0.9561735	1.49136148	0.5998996
##	[472,]	-0.2163344	1.3783999	-1.51968319	0.5998996
##	[473,]	-1.7714789	-0.9561735	-1.51968319	-3.4665342
##	[474,]	-1.7714789	-1.7343646	-0.76692202	-2.1110562
##	[475,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[476,]	-0.9939067	-0.9561735	-0.01416085	0.5998996
##	[477,]	-0.2163344	-0.1779823	-0.76692202	0.5998996
##	[478,]	-1.7714789	-0.1779823	-0.01416085	-0.7555783
##	[479,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[480,]	-0.2163344	0.6002088	-0.01416085	0.5998996
##	[481,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[482,]	-1.7714789	0.6002088	-0.01416085	0.5998996
##	[483,]	-1.7714789	-0.1779823	-0.76692202	-0.7555783
##	[484,]	1.3388100	1.3783999	-1.51968319	0.5998996
##	[485,]	0.5612378	-1.7343646	-0.76692202	0.5998996
##	[486,]	-0.9939067	0.6002088	-1.51968319	-2.1110562
##	[487,]	0.5612378	-0.1779823	1.49136148	-0.7555783
##	[488,]	1.3388100	1.3783999	-1.51968319	0.5998996
##	[489,]	-0.9939067	1.3783999	0.73860031	-0.7555783
##	[490,]	1.3388100	1.3783999	-0.01416085	0.5998996
##	[491,]	1.3388100	-1.7343646	-1.51968319	-0.7555783
##	[492,]	-0.2163344	-0.1779823	-0.01416085	-0.7555783
##	[493,]	-0.9939067	-0.9561735	1.49136148	0.5998996
##	[494,]	-0.9939067	1.3783999	-0.76692202	0.5998996
##	[495,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[496,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[497,]	0.5612378	-0.9561735	-1.51968319	-0.7555783
##	[498,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[499,]	-0.9939067	-0.9561735	-0.01416085	0.5998996
##	[500,]	-1.7714789	1.3783999	-0.76692202	0.5998996
##	[501,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[502,]	-0.2163344	-0.9561735	-0.76692202	0.5998996
##	[503,]	0.5612378	1.3783999	-1.51968319	0.5998996
##	[504,]	-0.2163344	1.3783999	-0.76692202	-2.1110562
##	[505,]	1.3388100	1.3783999	-1.51968319	0.5998996
##	[506,]	-0.9939067	0.6002088	-1.51968319	0.5998996
##	[507,]	-0.2163344	0.6002088	-1.51968319	0.5998996
##	[508,]	-0.9939067	0.6002088	0.73860031	-0.7555783
##	[509,]	-0.9939067	-1.7343646	-0.76692202	0.5998996
##	[510,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[511,]	-0.2163344	1.3783999	1.49136148	0.5998996

##	[512,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[513,]	1.3388100	1.3783999	-0.76692202	-0.7555783
##	[514,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[515,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[516,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[517,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[518,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[519,]	0.5612378	-0.9561735	-0.76692202	0.5998996
##	[520,]	-0.9939067	-0.9561735	-1.51968319	0.5998996
##	[521,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[522,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[523,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[524,]	-0.2163344	0.6002088	-1.51968319	0.5998996
##	[525,]	-0.2163344	-1.7343646	0.73860031	0.5998996
##	[526,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[527,]	-1.7714789	1.3783999	-0.01416085	0.5998996
##	[528,]	-0.2163344	-0.1779823	0.73860031	-2.1110562
##	[529,]	-1.7714789	1.3783999	-1.51968319	0.5998996
##	[530,]	-0.9939067	-0.9561735	-1.51968319	-0.7555783
##	[531,]	-0.9939067	0.6002088	-0.01416085	-2.1110562
##	[532,]	-0.9939067	0.6002088	-1.51968319	0.5998996
##	[533,]	1.3388100	-0.1779823	1.49136148	0.5998996
##	[534,]	-0.2163344	0.6002088	0.73860031	0.5998996
##	[535,]	0.5612378	0.6002088	0.73860031	-2.1110562
##	[536,]	1.3388100	1.3783999	-0.76692202	0.5998996
##	[537,]	1.3388100	-1.7343646	-0.76692202	0.5998996
##	[538,]	-0.2163344	1.3783999	1.49136148	0.5998996
##	[539,]	0.5612378	-0.9561735	-0.76692202	0.5998996
##	[540,]	1.3388100	1.3783999	0.73860031	-2.1110562
##	[541,]	0.5612378	1.3783999	1.49136148	0.5998996
##	[542,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[543,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[544,]	-0.2163344	-0.1779823	0.73860031	-0.7555783
##	[545,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[546,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[547,]	-0.2163344	1.3783999	1.49136148	0.5998996
##	[548,]	-1.7714789	-0.9561735	1.49136148	0.5998996
##	[549,]	-0.2163344	-0.9561735	-0.76692202	-0.7555783
##	[550,]	0.5612378	-0.1779823	-1.51968319	-2.1110562
##	[551,]	0.5612378	-0.1779823	-1.51968319	-0.7555783
##	[552,]	-0.2163344	-0.9561735	-1.51968319	0.5998996
##	[553,]	1.3388100	-0.1779823	1.49136148	0.5998996
##	[554,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[555,]	-0.2163344	0.6002088	-0.76692202	-0.7555783
##	[556,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[557,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[558,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[559,]	0.5612378	-0.9561735	1.49136148	0.5998996
##	[560,]	-0.2163344	-1.7343646	-0.01416085	0.5998996
##	[561,]	-0.9939067	-0.9561735	-0.01416085	0.5998996

##	[562,]	-0.9939067	-0.1779823	0.73860031	-0.7555783
##	[563,]	-0.2163344	-0.9561735	-0.01416085	0.5998996
##	[564,]	1.3388100	0.6002088	-0.76692202	-0.7555783
##	[565,]	-0.2163344	1.3783999	-1.51968319	0.5998996
##	[566,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[567,]	-1.7714789	-0.9561735	1.49136148	-0.7555783
##	[568,]	-0.2163344	-0.9561735	-0.76692202	-0.7555783
##	[569,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[570,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[571,]	1.3388100	0.6002088	-0.01416085	-0.7555783
##	[572,]	-0.2163344	-1.7343646	-0.76692202	0.5998996
##	[573,]	1.3388100	1.3783999	0.73860031	0.5998996
##	[574,]	1.3388100	-0.1779823	-1.51968319	0.5998996
##	[575,]	0.5612378	0.6002088	-0.76692202	0.5998996
##	[576,]	-0.9939067	1.3783999	1.49136148	0.5998996
##	[577,]	-0.2163344	1.3783999	1.49136148	0.5998996
##	[578,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[579,]	0.5612378	1.3783999	0.73860031	-0.7555783
##	[580,]	-0.9939067	0.6002088	-0.76692202	0.5998996
##	[581,]	-0.9939067	-0.1779823	-1.51968319	-2.1110562
##	[582,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[583,]	-0.9939067	-0.1779823	-0.76692202	0.5998996
##	[584,]	-1.7714789	1.3783999	-0.01416085	-0.7555783
##	[585,]	-0.9939067	-0.1779823	-0.76692202	-2.1110562
##	[586,]	-0.2163344	-0.1779823	-1.51968319	0.5998996
##	[587,]	1.3388100	1.3783999	-0.76692202	0.5998996
##	[588,]	-0.2163344	-0.9561735	-0.76692202	0.5998996
##	[589,]	1.3388100	-1.7343646	1.49136148	0.5998996
##	[590,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[591,]	-0.9939067	1.3783999	-0.01416085	0.5998996
##	[592,]	0.5612378	0.6002088	1.49136148	-2.1110562
##	[593,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[594,]	-0.9939067	-0.1779823	-0.01416085	0.5998996
##	[595,]	-0.2163344	-0.1779823	0.73860031	0.5998996
##	[596,]	-1.7714789	-1.7343646	-1.51968319	-2.1110562
##	[597,]	-1.7714789	0.6002088	-1.51968319	-0.7555783
##	[598,]	-0.9939067	-0.9561735	-0.76692202	0.5998996
##	[599,]	-0.9939067	1.3783999	-0.01416085	-0.7555783
##	[600,]	-0.2163344	-0.9561735	-0.76692202	0.5998996
##	[601,]	-0.2163344	-0.9561735	0.73860031	0.5998996
##	[602,]	-0.2163344	-1.7343646	0.73860031	0.5998996
##	[603,]	-0.9939067	0.6002088	-1.51968319	0.5998996
##	[604,]	0.5612378	0.6002088	-0.76692202	0.5998996
##	[605,]	1.3388100	0.6002088	-0.01416085	0.5998996
##	[606,]	-0.2163344	1.3783999	1.49136148	-0.7555783
##	[607,]	-0.9939067	0.6002088	-0.76692202	-0.7555783
##	[608,]	1.3388100	1.3783999	-0.01416085	0.5998996
##	[609,]	0.5612378	-0.9561735	-0.76692202	-0.7555783
##	[610,]	0.5612378	1.3783999	-0.01416085	-0.7555783
##	[611,]	-0.9939067	0.6002088	-1.51968319	0.5998996

##	[612,]	1.3388100	0.6002088	-0.01416085	0.5998996
##	[613,]	-0.2163344	-0.9561735	-0.76692202	-0.7555783
##	[614,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[615,]	1.3388100	1.3783999	0.73860031	0.5998996
##	[616,]	-0.9939067	0.6002088	-0.01416085	-0.7555783
##	[617,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[618,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[619,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[620,]	-1.7714789	1.3783999	-1.51968319	0.5998996
##	[621,]	-1.7714789	0.6002088	-0.01416085	0.5998996
##	[622,]	-1.7714789	-1.7343646	-1.51968319	-2.1110562
##	[623,]	-0.2163344	-0.9561735	0.73860031	0.5998996
##	[624,]	-0.9939067	-0.1779823	-1.51968319	0.5998996
##	[625,]	1.3388100	-1.7343646	-0.01416085	0.5998996
##	[626,]	0.5612378	-0.1779823	-0.76692202	0.5998996
##	[627,]	0.5612378	-0.9561735	-0.76692202	-0.7555783
##	[628,]	0.5612378	-0.9561735	-0.76692202	0.5998996
##	[629,]	-0.9939067	0.6002088	-1.51968319	-0.7555783
##	[630,]	1.3388100	-1.7343646	1.49136148	0.5998996
##	[631,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[632,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[633,]	-0.9939067	-0.9561735	-0.76692202	-2.1110562
##	[634,]	-0.2163344	0.6002088	-0.01416085	0.5998996
##	[635,]	1.3388100	-0.1779823	1.49136148	0.5998996
##	[636,]	-0.9939067	0.6002088	-0.01416085	-2.1110562
##	[637,]	0.5612378	-0.9561735	-1.51968319	0.5998996
##	[638,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[639,]	-0.2163344	-0.1779823	-0.01416085	-0.7555783
##	[640,]	-1.7714789	0.6002088	-1.51968319	-3.4665342
##	[641,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[642,]	-0.9939067	-0.9561735	-1.51968319	0.5998996
##	[643,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[644,]	-0.9939067	-0.1779823	1.49136148	0.5998996
##	[645,]	0.5612378	-0.9561735	-0.01416085	-0.7555783
##	[646,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[647,]	-0.9939067	-0.1779823	-1.51968319	0.5998996
##	[648,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[649,]	-0.2163344	-0.9561735	1.49136148	0.5998996
##	[650,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[651,]	-0.2163344	-1.7343646	-1.51968319	-0.7555783
##	[652,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[653,]	-1.7714789	1.3783999	-1.51968319	-0.7555783
##	[654,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[655,]	-0.2163344	0.6002088	-0.76692202	-2.1110562
##	[656,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[657,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[658,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[659,]	-0.9939067	0.6002088	-1.51968319	0.5998996
##	[660,]	-0.9939067	-1.7343646	-0.76692202	0.5998996
##	[661,]	-0.2163344	-0.9561735	-0.01416085	0.5998996

##	[662,]	0.5612378	-0.9561735	-0.01416085	-0.7555783
##	[663,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[664,]	-0.9939067	-0.1779823	0.73860031	0.5998996
##	[665,]	0.5612378	0.6002088	-0.01416085	-0.7555783
##	[666,]	-0.2163344	0.6002088	1.49136148	0.5998996
##	[667,]	-1.7714789	-0.1779823	0.73860031	0.5998996
##	[668,]	-1.7714789	-0.1779823	-0.01416085	0.5998996
##	[669,]	-0.9939067	1.3783999	0.73860031	-2.1110562
##	[670,]	0.5612378	-0.1779823	-0.76692202	-0.7555783
##	[671,]	-0.2163344	-0.1779823	-0.76692202	-0.7555783
##	[672,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[673,]	0.5612378	-0.1779823	1.49136148	-0.7555783
##	[674,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[675,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[676,]	1.3388100	-0.9561735	1.49136148	0.5998996
##	[677,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[678,]	-0.2163344	-1.7343646	0.73860031	0.5998996
##	[679,]	-1.7714789	1.3783999	1.49136148	0.5998996
##	[680,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[681,]	-0.2163344	0.6002088	-0.01416085	0.5998996
##	[682,]	-0.2163344	1.3783999	1.49136148	0.5998996
##	[683,]	-0.2163344	0.6002088	-0.01416085	-0.7555783
##	[684,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[685,]	1.3388100	-1.7343646	-0.76692202	-0.7555783
##	[686,]	0.5612378	0.6002088	-0.01416085	-0.7555783
##	[687,]	-0.2163344	-0.1779823	-0.01416085	-2.1110562
##	[688,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[689,]	1.3388100	-1.7343646	-0.01416085	-2.1110562
##	[690,]	0.5612378	-0.9561735	-0.76692202	-0.7555783
##	[691,]	-0.9939067	0.6002088	0.73860031	-0.7555783
##	[692,]	0.5612378	-0.9561735	-0.76692202	0.5998996
##	[693,]	-0.2163344	0.6002088	-0.01416085	0.5998996
##	[694,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[695,]	-0.9939067	1.3783999	-0.76692202	0.5998996
##	[696,]	-0.2163344	-0.9561735	1.49136148	0.5998996
##	[697,]	-0.9939067	-0.9561735	0.73860031	0.5998996
##	[698,]	-0.2163344	-1.7343646	-0.76692202	-2.1110562
##	[699,]	1.3388100	-1.7343646	-0.01416085	0.5998996
##	[700,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[701,]	-0.9939067	-1.7343646	-1.51968319	-0.7555783
##	[702,]	-0.9939067	-0.1779823	-0.01416085	-2.1110562
##	[703,]	-1.7714789	1.3783999	1.49136148	0.5998996
##	[704,]	-0.9939067	-0.1779823	-0.76692202	0.5998996
##	[705,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[706,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[707,]	-0.2163344	0.6002088	0.73860031	0.5998996
##	[708,]	-0.2163344	0.6002088	0.73860031	-0.7555783
##	[709,]	-0.9939067	-0.1779823	-1.51968319	0.5998996
##	[710,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[711,]	-0.2163344	-0.9561735	1.49136148	0.5998996

##	[712,]	-0.2163344	-0.9561735	-0.01416085	-2.1110562
##	[713,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[714,]	-0.2163344	-1.7343646	1.49136148	0.5998996
##	[715,]	-0.2163344	-0.9561735	1.49136148	0.5998996
##	[716,]	-0.2163344	1.3783999	-0.76692202	-0.7555783
##	[717,]	0.5612378	0.6002088	1.49136148	-0.7555783
##	[718,]	-0.2163344	-1.7343646	0.73860031	0.5998996
##	[719,]	-0.2163344	-0.1779823	0.73860031	0.5998996
##	[720,]	-0.9939067	-0.1779823	-1.51968319	-0.7555783
##	[721,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[722,]	-1.7714789	0.6002088	1.49136148	0.5998996
##	[723,]	-0.2163344	-0.9561735	1.49136148	-0.7555783
##	[724,]	-0.2163344	-0.9561735	1.49136148	0.5998996
##	[725,]	-0.9939067	-1.7343646	-0.01416085	-0.7555783
##	[726,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[727,]	-0.2163344	0.6002088	-1.51968319	0.5998996
##	[728,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[729,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[730,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[731,]	-1.7714789	-0.1779823	1.49136148	-0.7555783
##	[732,]	-0.2163344	-0.9561735	-0.01416085	0.5998996
##	[733,]	-0.2163344	-1.7343646	-0.76692202	0.5998996
##	[734,]	1.3388100	1.3783999	0.73860031	-0.7555783
##	[735,]	-0.9939067	-1.7343646	-0.01416085	-0.7555783
##	[736,]	-0.9939067	-1.7343646	0.73860031	-3.4665342
##	[737,]	-0.2163344	-0.1779823	0.73860031	-0.7555783
##	[738,]	0.5612378	-1.7343646	-0.01416085	0.5998996
##	[739,]	-0.2163344	0.6002088	-1.51968319	0.5998996
##	[740,]	-0.2163344	1.3783999	-0.76692202	0.5998996
##	[741,]	0.5612378	0.6002088	-0.01416085	0.5998996
##	[742,]	-0.9939067	-0.9561735	1.49136148	0.5998996
##	[743,]	-0.2163344	0.6002088	0.73860031	0.5998996
##	[744,]	-1.7714789	0.6002088	-0.01416085	0.5998996
##	[745,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[746,]	-0.9939067	1.3783999	-0.76692202	-0.7555783
##	[747,]	0.5612378	-0.9561735	0.73860031	0.5998996
##	[748,]	0.5612378	-0.1779823	1.49136148	-0.7555783
##	[749,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[750,]	-0.2163344	-0.1779823	-0.76692202	-0.7555783
##	[751,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[752,]	1.3388100	-0.9561735	1.49136148	0.5998996
##	[753,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[754,]	-0.9939067	-0.9561735	0.73860031	0.5998996
##	[755,]	-0.9939067	0.6002088	-0.76692202	0.5998996
##	[756,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[757,]	0.5612378	0.6002088	-0.76692202	0.5998996
##	[758,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[759,]	0.5612378	1.3783999	-0.76692202	-2.1110562
##	[760,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[761,]	0.5612378	-0.9561735	0.73860031	0.5998996

##	[762,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[763,]	0.5612378	0.6002088	-0.76692202	0.5998996
##	[764,]	-0.9939067	0.6002088	1.49136148	0.5998996
##	[765,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[766,]	-0.9939067	1.3783999	-1.51968319	-0.7555783
##	[767,]	0.5612378	-0.1779823	0.73860031	-2.1110562
##	[768,]	0.5612378	-0.1779823	-0.01416085	-2.1110562
##	[769,]	-0.2163344	-0.1779823	-1.51968319	-0.7555783
##	[770,]	0.5612378	0.6002088	0.73860031	-0.7555783
##	[771,]	1.3388100	0.6002088	-0.01416085	-3.4665342
##	[772,]	-1.7714789	1.3783999	-0.76692202	0.5998996
##	[773,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[774,]	-0.2163344	-0.9561735	-0.76692202	0.5998996
##	[775,]	-1.7714789	-0.9561735	-0.01416085	0.5998996
##	[776,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[777,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[778,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[779,]	1.3388100	-1.7343646	1.49136148	0.5998996
##	[780,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[781,]	0.5612378	-0.1779823	-0.76692202	-2.1110562
##	[782,]	-0.2163344	-1.7343646	1.49136148	0.5998996
##	[783,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[784,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[785,]	-0.2163344	0.6002088	0.73860031	-3.4665342
##	[786,]	0.5612378	-1.7343646	-0.01416085	-0.7555783
##	[787,]	-0.9939067	-0.1779823	-0.01416085	0.5998996
##	[788,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[789,]	-0.2163344	-1.7343646	-0.01416085	0.5998996
##	[790,]	1.3388100	0.6002088	0.73860031	0.5998996
##	[791,]	-0.9939067	1.3783999	-0.76692202	-0.7555783
##	[792,]	1.3388100	-0.1779823	-1.51968319	-2.1110562
##	[793,]	0.5612378	1.3783999	-1.51968319	0.5998996
##	[794,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[795,]	-0.2163344	-1.7343646	-0.76692202	0.5998996
##	[796,]	1.3388100	1.3783999	0.73860031	0.5998996
##	[797,]	-0.2163344	1.3783999	0.73860031	-3.4665342
##	[798,]	0.5612378	-1.7343646	-1.51968319	0.5998996
##	[799,]	-0.2163344	0.6002088	-0.76692202	0.5998996
##	[800,]	-0.2163344	0.6002088	1.49136148	-0.7555783
##	[801,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[802,]	-1.7714789	1.3783999	-1.51968319	0.5998996
##	[803,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[804,]	-0.2163344	-1.7343646	-0.01416085	0.5998996
##	[805,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[806,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[807,]	1.3388100	1.3783999	-1.51968319	0.5998996
##	[808,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[809,]	0.5612378	-0.1779823	-0.76692202	0.5998996
##	[810,]	1.3388100	1.3783999	-1.51968319	0.5998996
##	[811,]	-0.9939067	0.6002088	1.49136148	0.5998996

##	[812,]	-0.9939067	1.3783999	0.73860031	0.5998996
##	[813,]	1.3388100	-0.1779823	-1.51968319	0.5998996
##	[814,]	0.5612378	0.6002088	-1.51968319	0.5998996
##	[815,]	1.3388100	-0.1779823	1.49136148	0.5998996
##	[816,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[817,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[818,]	-1.7714789	-1.7343646	-0.01416085	-2.1110562
##	[819,]	-0.9939067	0.6002088	-1.51968319	0.5998996
##	[820,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[821,]	0.5612378	-1.7343646	0.73860031	0.5998996
##	[822,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[823,]	-0.2163344	-1.7343646	-0.76692202	0.5998996
##	[824,]	0.5612378	-0.1779823	-0.76692202	0.5998996
##	[825,]	-1.7714789	-1.7343646	1.49136148	0.5998996
##	[826,]	-0.2163344	-0.1779823	-0.01416085	-0.7555783
##	[827,]	0.5612378	-0.9561735	1.49136148	0.5998996
##	[828,]	1.3388100	-1.7343646	0.73860031	0.5998996
##	[829,]	-1.7714789	-0.9561735	-0.01416085	-0.7555783
##	[830,]	-0.9939067	0.6002088	1.49136148	-0.7555783
##	[831,]	-0.2163344	0.6002088	0.73860031	0.5998996
##	[832,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[833,]	1.3388100	-1.7343646	1.49136148	0.5998996
##	[834,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[835,]	-0.2163344	0.6002088	-0.01416085	-0.7555783
##	[836,]	-1.7714789	-0.1779823	-0.76692202	0.5998996
##	[837,]	0.5612378	1.3783999	-0.01416085	-0.7555783
##	[838,]	-1.7714789	1.3783999	1.49136148	0.5998996
##	[839,]	-0.2163344	-0.9561735	-0.01416085	0.5998996
##	[840,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[841,]	0.5612378	-0.1779823	-0.01416085	-0.7555783
##	[842,]	-1.7714789	-1.7343646	-1.51968319	0.5998996
##	[843,]	0.5612378	1.3783999	0.73860031	0.5998996
##	[844,]	1.3388100	1.3783999	0.73860031	0.5998996
##	[845,]	-0.2163344	0.6002088	1.49136148	-0.7555783
##	[846,]	0.5612378	-1.7343646	-0.01416085	0.5998996
##	[847,]	1.3388100	-0.9561735	-0.76692202	0.5998996
##	[848,]	0.5612378	-1.7343646	1.49136148	0.5998996
##	[849,]	0.5612378	-0.1779823	-1.51968319	0.5998996
##	[850,]	-0.2163344	-1.7343646	0.73860031	0.5998996
##	[851,]	1.3388100	-0.1779823	-0.01416085	-0.7555783
##	[852,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[853,]	0.5612378	-0.1779823	-1.51968319	0.5998996
##	[854,]	0.5612378	-0.1779823	1.49136148	0.5998996
##	[855,]	0.5612378	0.6002088	-0.76692202	0.5998996
##	[856,]	-0.2163344	1.3783999	0.73860031	0.5998996
##	[857,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[858,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[859,]	-0.9939067	-0.1779823	-0.76692202	0.5998996
##	[860,]	-0.2163344	0.6002088	-0.76692202	0.5998996
##	[861,]	-0.9939067	1.3783999	0.73860031	0.5998996

##	[862,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[863,]	1.3388100	1.3783999	-0.01416085	0.5998996
##	[864,]	0.5612378	0.6002088	-0.01416085	0.5998996
##	[865,]	-0.9939067	0.6002088	-0.76692202	0.5998996
##	[866,]	0.5612378	-0.1779823	-0.76692202	-0.7555783
##	[867,]	-1.7714789	0.6002088	-0.01416085	-3.4665342
##	[868,]	-0.2163344	1.3783999	-1.51968319	-2.1110562
##	[869,]	-0.2163344	-0.9561735	-1.51968319	-0.7555783
##	[870,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[871,]	0.5612378	-0.9561735	-0.01416085	-0.7555783
##	[872,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[873,]	-0.2163344	1.3783999	-0.01416085	0.5998996
##	[874,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[875,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[876,]	-0.2163344	0.6002088	-1.51968319	0.5998996
##	[877,]	-0.2163344	0.6002088	-0.76692202	0.5998996
##	[878,]	-1.7714789	-0.1779823	1.49136148	0.5998996
##	[879,]	-0.9939067	0.6002088	-0.76692202	0.5998996
##	[880,]	-0.2163344	0.6002088	-1.51968319	0.5998996
##	[881,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[882,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[883,]	0.5612378	-1.7343646	-0.76692202	0.5998996
##	[884,]	-0.9939067	-0.9561735	0.73860031	0.5998996
##	[885,]	1.3388100	-1.7343646	1.49136148	0.5998996
##	[886,]	0.5612378	0.6002088	0.73860031	0.5998996
##	[887,]	-1.7714789	1.3783999	-0.01416085	0.5998996
##	[888,]	-0.9939067	-0.1779823	-0.76692202	-0.7555783
##	[889,]	0.5612378	-0.9561735	1.49136148	0.5998996
##	[890,]	-0.9939067	0.6002088	1.49136148	0.5998996
##	[891,]	0.5612378	1.3783999	-1.51968319	0.5998996
##	[892,]	-0.2163344	-0.1779823	-0.76692202	0.5998996
##	[893,]	-0.9939067	0.6002088	-0.01416085	-0.7555783
##	[894,]	-0.9939067	-0.1779823	-0.01416085	-0.7555783
##	[895,]	1.3388100	0.6002088	-0.01416085	0.5998996
##	[896,]	-0.9939067	-0.9561735	-0.76692202	-0.7555783
##	[897,]	-0.9939067	0.6002088	0.73860031	0.5998996
##	[898,]	-0.9939067	0.6002088	-0.01416085	-0.7555783
##	[899,]	-0.2163344	-0.1779823	-0.76692202	-0.7555783
##	[900,]	-0.9939067	1.3783999	-0.01416085	0.5998996
##	[901,]	-0.2163344	-0.1779823	-0.01416085	-2.1110562
##	[902,]	-0.9939067	-1.7343646	1.49136148	-0.7555783
##	[903,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[904,]	-1.7714789	1.3783999	-1.51968319	0.5998996
##	[905,]	-0.2163344	-0.1779823	-0.01416085	-0.7555783
##	[906,]	1.3388100	1.3783999	-0.01416085	0.5998996
##	[907,]	-0.9939067	-0.1779823	-0.76692202	0.5998996
##	[908,]	0.5612378	-0.9561735	-0.76692202	-0.7555783
##	[909,]	0.5612378	-0.1779823	-0.76692202	0.5998996
##	[910,]	0.5612378	0.6002088	-0.01416085	-0.7555783
##	[911,]	1.3388100	-0.1779823	1.49136148	0.5998996

##	[912,]	-0.2163344	-0.1779823	0.73860031	-0.7555783
##	[913,]	-0.2163344	0.6002088	-0.01416085	-3.4665342
##	[914,]	-0.9939067	-0.1779823	1.49136148	-0.7555783
##	[915,]	0.5612378	-0.1779823	1.49136148	-0.7555783
##	[916,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[917,]	-1.7714789	-0.1779823	-0.76692202	-2.1110562
##	[918,]	-0.2163344	-0.1779823	-0.76692202	-0.7555783
##	[919,]	-0.2163344	-0.1779823	0.73860031	0.5998996
##	[920,]	1.3388100	-1.7343646	1.49136148	0.5998996
##	[921,]	-0.2163344	-1.7343646	-0.01416085	0.5998996
##	[922,]	-0.2163344	-0.9561735	-1.51968319	0.5998996
##	[923,]	1.3388100	1.3783999	-0.76692202	0.5998996
##	[924,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[925,]	0.5612378	-0.1779823	-0.01416085	0.5998996
##	[926,]	1.3388100	-0.9561735	1.49136148	0.5998996
##	[927,]	-0.9939067	1.3783999	-0.01416085	-0.7555783
##	[928,]	0.5612378	-0.9561735	0.73860031	-0.7555783
##	[929,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[930,]	0.5612378	0.6002088	0.73860031	-2.1110562
##	[931,]	1.3388100	-0.1779823	-0.76692202	0.5998996
##	[932,]	-0.9939067	-0.1779823	-0.76692202	-0.7555783
##	[933,]	0.5612378	-0.1779823	-0.76692202	0.5998996
##	[934,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[935,]	-1.7714789	-0.9561735	-0.76692202	0.5998996
##	[936,]	1.3388100	-1.7343646	-1.51968319	0.5998996
##	[937,]	0.5612378	-0.1779823	-0.01416085	-0.7555783
##	[938,]	-0.2163344	-0.1779823	0.73860031	0.5998996
##	[939,]	1.3388100	0.6002088	0.73860031	-2.1110562
##	[940,]	-0.9939067	-0.1779823	-1.51968319	-0.7555783
##	[941,]	-0.2163344	-0.9561735	-0.76692202	0.5998996
##	[942,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[943,]	0.5612378	-1.7343646	-0.01416085	-0.7555783
##	[944,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[945,]	1.3388100	0.6002088	1.49136148	0.5998996
##	[946,]	-1.7714789	1.3783999	-0.76692202	0.5998996
##	[947,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[948,]	0.5612378	-0.9561735	-0.01416085	0.5998996
##	[949,]	0.5612378	0.6002088	1.49136148	0.5998996
##	[950,]	-1.7714789	-1.7343646	-1.51968319	0.5998996
##	[951,]	-0.2163344	1.3783999	-1.51968319	-2.1110562
##	[952,]	-1.7714789	1.3783999	-1.51968319	0.5998996
##	[953,]	-0.2163344	0.6002088	-0.76692202	0.5998996
##	[954,]	0.5612378	0.6002088	-0.01416085	-0.7555783
##	[955,]	0.5612378	-1.7343646	0.73860031	0.5998996
##	[956,]	0.5612378	1.3783999	-0.01416085	0.5998996
##	[957,]	-1.7714789	-0.1779823	-0.01416085	0.5998996
##	[958,]	-0.9939067	0.6002088	-0.76692202	-0.7555783
##	[959,]	1.3388100	-0.9561735	-0.01416085	0.5998996
##	[960,]	-0.9939067	-0.9561735	-0.01416085	-0.7555783
##	[961,]	-0.9939067	-0.9561735	0.73860031	0.5998996

##	[962,]	0.5612378	1.3783999	-1.51968319	0.5998996
##	[963,]	-0.2163344	-1.7343646	0.73860031	-0.7555783
##	[964,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[965,]	-0.9939067	0.6002088	-0.01416085	-0.7555783
##	[966,]	1.3388100	-0.1779823	-0.01416085	0.5998996
##	[967,]	1.3388100	-1.7343646	1.49136148	0.5998996
##	[968,]	-0.9939067	1.3783999	0.73860031	0.5998996
##	[969,]	-0.9939067	1.3783999	-0.76692202	0.5998996
##	[970,]	-0.9939067	-1.7343646	-0.76692202	0.5998996
##	[971,]	1.3388100	1.3783999	0.73860031	0.5998996
##	[972,]	-0.2163344	0.6002088	-0.76692202	-0.7555783
##	[973,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[974,]	1.3388100	1.3783999	-0.01416085	-0.7555783
##	[975,]	-0.9939067	0.6002088	-0.01416085	0.5998996
##	[976,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[977,]	0.5612378	-0.1779823	0.73860031	0.5998996
##	[978,]	0.5612378	-1.7343646	-0.76692202	0.5998996
##	[979,]	-0.9939067	-0.9561735	1.49136148	0.5998996
##	[980,]	-0.2163344	-0.1779823	-0.01416085	0.5998996
##	[981,]	-1.7714789	-0.1779823	1.49136148	0.5998996
##	[982,]	-0.2163344	-0.1779823	1.49136148	-2.1110562
##	[983,]	1.3388100	1.3783999	0.73860031	0.5998996
##	[984,]	0.5612378	-1.7343646	-0.01416085	0.5998996
##	[985,]	-0.9939067	-0.1779823	1.49136148	-0.7555783
##	[986,]	-0.9939067	-0.1779823	1.49136148	-0.7555783
##	[987,]	-0.9939067	-0.1779823	0.73860031	-0.7555783
##	[988,]	-1.7714789	0.6002088	-0.01416085	-0.7555783
##	[989,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[990,]	-0.2163344	-0.1779823	1.49136148	0.5998996
##	[991,]	-1.7714789	0.6002088	-1.51968319	0.5998996
##	[992,]	-1.7714789	-0.1779823	-1.51968319	-2.1110562
##	[993,]	-1.7714789	1.3783999	-0.76692202	0.5998996
##	[994,]	-0.2163344	-0.9561735	0.73860031	0.5998996
##	[995,]	-0.2163344	-0.1779823	-0.01416085	-0.7555783
##	[996,]	-0.2163344	-0.1779823	-0.76692202	0.5998996
##	[997,]	-1.7714789	-0.9561735	-0.76692202	0.5998996
##	[998,]	-1.7714789	-0.9561735	-0.76692202	0.5998996
##	[999,]	-0.9939067	1.3783999	0.73860031	0.5998996
##	[1000,]	-1.7714789	1.3783999	0.73860031	0.5998996
##	[1001,]	1.3388100	-0.1779823	0.73860031	0.5998996
##	[1002,]	1.3388100	-0.9561735	0.73860031	0.5998996
##	[1003,]	-1.7714789	-0.1779823	-1.51968319	0.5998996
##	[1004,]	-0.2163344	-0.9561735	-0.01416085	-0.7555783
##	[1005,]	-0.9939067	-0.9561735	-0.76692202	0.5998996
##	[1006,]	1.3388100	-0.1779823	1.49136148	0.5998996
##	[1007,]	-0.9939067	1.3783999	-1.51968319	0.5998996
##	[1008,]	-0.9939067	-0.1779823	-0.76692202	-2.1110562
##	[1009,]	1.3388100	1.3783999	1.49136148	0.5998996
##	[1010,]	-0.2163344	-0.1779823	-1.51968319	0.5998996
##		Adrenaline.sports	Pets		

##	[1,]	0.73871905	0.4317731
##	[2,]	-0.66770177	1.0787922
##	[3,]	1.44192947	1.0787922
##	[4,]	-1.37091218	-1.5092841
##	[5,]	-0.66770177	-1.5092841
##	[6,]	0.03550864	-0.8622650
##	[7,]	-1.37091218	1.0787922
##	[8,]	-0.66770177	1.0787922
##	[9,]	-1.37091218	-1.5092841
##	[10,]	-0.66770177	-0.8622650
##	[11,]	-1.37091218	1.0787922
##	[12,]	-1.37091218	-1.5092841
##	[13,]	-1.37091218	-0.8622650
##	[14,]	0.73871905	1.0787922
##	[15,]	-1.37091218	1.0787922
##	[16,]	1.44192947	-1.5092841
##	[17,]	0.73871905	1.0787922
##	[18,]	-1.37091218	1.0787922
##	[19,]	-1.37091218	0.4317731
##	[20,]	0.03550864	-1.5092841
##	[21,]	0.03550864	-0.2152459
##	[22,]	1.44192947	1.0787922
##	[23,]	-0.66770177	1.0787922
##	[24,]	0.03550864	1.0787922
##	[25,]	0.03550864	-0.2152459
##	[26,]	-1.37091218	-0.2152459
##	[27,]	0.73871905	1.0787922
##	[28,]	-0.66770177	1.0787922
##	[29,]	0.73871905	-0.2152459
##	[30,]	0.03550864	-0.8622650
##	[31,]	0.73871905	-0.2152459
##	[32,]	-0.66770177	-1.5092841
##	[33,]	-1.37091218	1.0787922
##	[34,]	1.44192947	1.0787922
##	[35,]	1.44192947	-1.5092841
##	[36,]	-0.66770177	1.0787922
##	[37,]	-1.37091218	1.0787922
##	[38,]	1.44192947	-0.2152459
##	[39,]	-1.37091218	1.0787922
##	[40,]	0.03550864	1.0787922
##	[41,]	-1.37091218	-0.8622650
##	[42,]	1.44192947	-0.2152459
##	[43,]	0.03550864	1.0787922
##	[44,]	-0.66770177	1.0787922
##	[45,]	1.44192947	1.0787922
##	[46,]	-1.37091218	0.4317731
##	[47,]	1.44192947	0.4317731
##	[48,]	-0.66770177	1.0787922
##	[49,]	-0.66770177	-0.8622650
##	[50,]	-1.37091218	1.0787922

##	[51,]	0.73871905	1.0787922
##	[52,]	-1.37091218	0.4317731
##	[53,]	1.44192947	-0.2152459
##	[54,]	0.03550864	-1.5092841
##	[55,]	-1.37091218	-1.5092841
##	[56,]	0.73871905	1.0787922
##	[57,]	-0.66770177	-0.2152459
##	[58,]	-0.66770177	1.0787922
##	[59,]	0.03550864	-0.2152459
##	[60,]	-1.37091218	-1.5092841
##	[61,]	0.03550864	-1.5092841
##	[62,]	-0.66770177	1.0787922
##	[63,]	1.44192947	-1.5092841
##	[64,]	1.44192947	-0.2152459
##	[65,]	0.73871905	1.0787922
##	[66,]	0.03550864	-0.2152459
##	[67,]	-0.66770177	-1.5092841
##	[68,]	-0.66770177	0.4317731
##	[69,]	-1.37091218	0.4317731
##	[70,]	-1.37091218	0.4317731
##	[71,]	1.44192947	-0.8622650
##	[72,]	0.03550864	1.0787922
##	[73,]	0.73871905	-0.8622650
##	[74,]	-1.37091218	1.0787922
##	[75,]	0.73871905	-0.2152459
##	[76,]	0.03550864	0.4317731
##	[77,]	0.73871905	-0.2152459
##	[78,]	0.03550864	-1.5092841
##	[79,]	1.44192947	-0.2152459
##	[80,]	0.73871905	1.0787922
##	[81,]	0.73871905	1.0787922
##	[82,]	0.73871905	-0.8622650
##	[83,]	0.03550864	1.0787922
##	[84,]	1.44192947	1.0787922
##	[85,]	0.03550864	1.0787922
##	[86,]	0.03550864	-1.5092841
##	[87,]	0.73871905	-0.8622650
##	[88,]	1.44192947	-0.2152459
##	[89,]	-1.37091218	1.0787922
##	[90,]	-1.37091218	-0.8622650
##	[91,]	-0.66770177	-0.2152459
##	[92,]	0.73871905	-1.5092841
##	[93,]	-0.66770177	-0.2152459
##	[94,]	0.73871905	-0.2152459
##	[95,]	-0.66770177	-0.2152459
##	[96,]	1.44192947	0.4317731
##	[97,]	-1.37091218	-1.5092841
##	[98,]	0.03550864	1.0787922
##	[99,]	1.44192947	-1.5092841
##	[100,]	-1.37091218	0.4317731

##	[101,]	0.03550864	-0.8622650
##	[102,]	-1.37091218	-0.2152459
##	[103,]	0.03550864	-1.5092841
##	[104,]	-0.66770177	-1.5092841
##	[105,]	0.03550864	-0.8622650
##	[106,]	-1.37091218	0.4317731
##	[107,]	0.03550864	-1.5092841
##	[108,]	1.44192947	0.4317731
##	[109,]	-1.37091218	-0.2152459
##	[110,]	-0.66770177	-1.5092841
##	[111,]	0.73871905	-0.2152459
##	[112,]	0.03550864	-1.5092841
##	[113,]	-1.37091218	-0.2152459
##	[114,]	0.73871905	1.0787922
##	[115,]	0.73871905	1.0787922
##	[116,]	0.03550864	-0.2152459
##	[117,]	-1.37091218	0.4317731
##	[118,]	-1.37091218	1.0787922
##	[119,]	0.03550864	0.4317731
##	[120,]	-0.66770177	-0.2152459
##	[121,]	0.73871905	1.0787922
##	[122,]	1.44192947	-0.2152459
##	[123,]	-1.37091218	0.4317731
##	[124,]	-0.66770177	0.4317731
##	[125,]	1.44192947	0.4317731
##	[126,]	-0.66770177	1.0787922
##	[127,]	-1.37091218	-1.5092841
##	[128,]	0.73871905	-0.8622650
##	[129,]	1.44192947	1.0787922
##	[130,]	-1.37091218	1.0787922
##	[131,]	0.03550864	-1.5092841
##	[132,]	1.44192947	-0.2152459
##	[133,]	0.03550864	1.0787922
##	[134,]	-1.37091218	0.4317731
##	[135,]	0.73871905	0.4317731
##	[136,]	-1.37091218	1.0787922
##	[137,]	0.03550864	-0.2152459
##	[138,]	-1.37091218	-1.5092841
##	[139,]	-1.37091218	-0.2152459
##	[140,]	0.03550864	1.0787922
##	[141,]	1.44192947	1.0787922
##	[142,]	-1.37091218	1.0787922
##	[143,]	-1.37091218	-1.5092841
##	[144,]	-1.37091218	1.0787922
##	[145,]	0.03550864	-0.2152459
##	[146,]	0.03550864	-0.8622650
##	[147,]	-0.66770177	0.4317731
##	[148,]	-0.66770177	-0.2152459
##	[149,]	-0.66770177	-1.5092841
##	[150,]	0.03550864	-1.5092841

##	[151,]	0.03550864	-1.5092841
##	[152,]	-0.66770177	-0.2152459
##	[153,]	0.73871905	0.4317731
##	[154,]	-0.66770177	-1.5092841
##	[155,]	-1.37091218	-0.2152459
##	[156,]	0.73871905	0.4317731
##	[157,]	-1.37091218	0.4317731
##	[158,]	0.73871905	-0.8622650
##	[159,]	-0.66770177	1.0787922
##	[160,]	1.44192947	1.0787922
##	[161,]	0.73871905	-1.5092841
##	[162,]	0.03550864	1.0787922
##	[163,]	-0.66770177	-0.8622650
##	[164,]	-1.37091218	-1.5092841
##	[165,]	-1.37091218	0.4317731
##	[166,]	0.73871905	-0.8622650
##	[167,]	0.03550864	-1.5092841
##	[168,]	-0.66770177	0.4317731
##	[169,]	1.44192947	-1.5092841
##	[170,]	0.03550864	0.4317731
##	[171,]	0.03550864	0.4317731
##	[172,]	0.73871905	-1.5092841
##	[173,]	-0.66770177	-0.2152459
##	[174,]	-0.66770177	1.0787922
##	[175,]	-1.37091218	-0.2152459
##	[176,]	0.03550864	1.0787922
##	[177,]	0.03550864	0.4317731
##	[178,]	-1.37091218	1.0787922
##	[179,]	-1.37091218	-0.2152459
##	[180,]	0.73871905	0.4317731
##	[181,]	1.44192947	-1.5092841
##	[182,]	-0.66770177	-0.8622650
##	[183,]	0.03550864	1.0787922
##	[184,]	1.44192947	1.0787922
##	[185,]	-1.37091218	-0.8622650
##	[186,]	0.73871905	1.0787922
##	[187,]	-0.66770177	0.4317731
##	[188,]	0.03550864	-0.8622650
##	[189,]	0.03550864	-1.5092841
##	[190,]	0.03550864	-1.5092841
##	[191,]	0.73871905	-0.8622650
##	[192,]	-1.37091218	-0.8622650
##	[193,]	-0.66770177	1.0787922
##	[194,]	-1.37091218	1.0787922
##	[195,]	0.73871905	-1.5092841
##	[196,]	0.03550864	-1.5092841
##	[197,]	0.73871905	-1.5092841
##	[198,]	-1.37091218	0.4317731
##	[199,]	0.03550864	0.4317731
##	[200,]	1.44192947	-0.2152459

##	[201,]	-0.66770177	1.0787922
##	[202,]	-1.37091218	1.0787922
##	[203,]	0.03550864	0.4317731
##	[204,]	0.73871905	-0.2152459
##	[205,]	-1.37091218	-0.2152459
##	[206,]	-1.37091218	-0.8622650
##	[207,]	0.03550864	-0.2152459
##	[208,]	-0.66770177	1.0787922
##	[209,]	1.44192947	1.0787922
##	[210,]	0.73871905	-0.2152459
##	[211,]	0.73871905	1.0787922
##	[212,]	0.03550864	0.4317731
##	[213,]	-0.66770177	-1.5092841
##	[214,]	0.73871905	0.4317731
##	[215,]	-0.66770177	-0.2152459
##	[216,]	0.73871905	-1.5092841
##	[217,]	0.03550864	-1.5092841
##	[218,]	0.73871905	1.0787922
##	[219,]	0.73871905	1.0787922
##	[220,]	1.44192947	-0.2152459
##	[221,]	0.03550864	1.0787922
##	[222,]	0.73871905	0.4317731
##	[223,]	-1.37091218	-1.5092841
##	[224,]	1.44192947	1.0787922
##	[225,]	-1.37091218	-1.5092841
##	[226,]	0.73871905	-0.2152459
##	[227,]	0.03550864	1.0787922
##	[228,]	-1.37091218	-0.2152459
##	[229,]	-0.66770177	1.0787922
##	[230,]	1.44192947	-1.5092841
##	[231,]	0.03550864	0.4317731
##	[232,]	-0.66770177	1.0787922
##	[233,]	-1.37091218	-1.5092841
##	[234,]	0.03550864	1.0787922
##	[235,]	0.03550864	1.0787922
##	[236,]	-1.37091218	-0.2152459
##	[237,]	-1.37091218	1.0787922
##	[238,]	1.44192947	1.0787922
##	[239,]	-1.37091218	-0.2152459
##	[240,]	0.03550864	0.4317731
##	[241,]	1.44192947	-0.2152459
##	[242,]	0.03550864	1.0787922
##	[243,]	-1.37091218	-0.8622650
##	[244,]	-1.37091218	-1.5092841
##	[245,]	-1.37091218	1.0787922
##	[246,]	1.44192947	1.0787922
##	[247,]	0.03550864	1.0787922
##	[248,]	0.73871905	-1.5092841
##	[249,]	0.73871905	-0.2152459
##	[250,]	1.44192947	1.0787922

##	[251,]	0.73871905	-1.5092841
##	[252,]	-1.37091218	1.0787922
##	[253,]	-0.66770177	1.0787922
##	[254,]	-1.37091218	-1.5092841
##	[255,]	-1.37091218	1.0787922
##	[256,]	0.73871905	-0.2152459
##	[257,]	0.03550864	-1.5092841
##	[258,]	0.73871905	-1.5092841
##	[259,]	-1.37091218	-0.8622650
##	[260,]	-1.37091218	-1.5092841
##	[261,]	0.03550864	-0.2152459
##	[262,]	0.03550864	1.0787922
##	[263,]	-1.37091218	-0.2152459
##	[264,]	-0.66770177	-0.2152459
##	[265,]	0.73871905	1.0787922
##	[266,]	-1.37091218	1.0787922
##	[267,]	0.73871905	0.4317731
##	[268,]	0.73871905	1.0787922
##	[269,]	0.03550864	1.0787922
##	[270,]	0.03550864	-0.2152459
##	[271,]	-1.37091218	1.0787922
##	[272,]	1.44192947	1.0787922
##	[273,]	-1.37091218	1.0787922
##	[274,]	1.44192947	-1.5092841
##	[275,]	0.03550864	0.4317731
##	[276,]	-1.37091218	-0.8622650
##	[277,]	1.44192947	-1.5092841
##	[278,]	-0.66770177	-1.5092841
##	[279,]	1.44192947	1.0787922
##	[280,]	-1.37091218	1.0787922
##	[281,]	0.03550864	0.4317731
##	[282,]	-1.37091218	1.0787922
##	[283,]	-1.37091218	1.0787922
##	[284,]	1.44192947	-1.5092841
##	[285,]	1.44192947	0.4317731
##	[286,]	-1.37091218	1.0787922
##	[287,]	-0.66770177	1.0787922
##	[288,]	-0.66770177	0.4317731
##	[289,]	1.44192947	-0.2152459
##	[290,]	1.44192947	0.4317731
##	[291,]	0.73871905	-0.8622650
##	[292,]	0.73871905	-0.2152459
##	[293,]	0.03550864	1.0787922
##	[294,]	-0.66770177	1.0787922
##	[295,]	-0.66770177	1.0787922
##	[296,]	0.73871905	1.0787922
##	[297,]	1.44192947	0.4317731
##	[298,]	-0.66770177	-0.2152459
##	[299,]	0.03550864	1.0787922
##	[300,]	-1.37091218	0.4317731

##	[301,]	0.03550864	-0.8622650
##	[302,]	-1.37091218	-0.2152459
##	[303,]	-0.66770177	-1.5092841
##	[304,]	-1.37091218	1.0787922
##	[305,]	-1.37091218	-1.5092841
##	[306,]	0.73871905	1.0787922
##	[307,]	1.44192947	1.0787922
##	[308,]	-1.37091218	-1.5092841
##	[309,]	0.73871905	-0.2152459
##	[310,]	0.73871905	-1.5092841
##	[311,]	0.73871905	1.0787922
##	[312,]	1.44192947	-0.8622650
##	[313,]	-0.66770177	-0.2152459
##	[314,]	-0.66770177	-0.2152459
##	[315,]	1.44192947	1.0787922
##	[316,]	-1.37091218	-1.5092841
##	[317,]	0.73871905	1.0787922
##	[318,]	0.03550864	1.0787922
##	[319,]	0.03550864	1.0787922
##	[320,]	0.03550864	-0.2152459
##	[321,]	0.03550864	-0.2152459
##	[322,]	0.73871905	1.0787922
##	[323,]	0.03550864	1.0787922
##	[324,]	-0.66770177	1.0787922
##	[325,]	0.73871905	-0.2152459
##	[326,]	1.44192947	1.0787922
##	[327,]	-0.66770177	0.4317731
##	[328,]	-0.66770177	1.0787922
##	[329,]	0.03550864	-1.5092841
##	[330,]	-0.66770177	0.4317731
##	[331,]	-1.37091218	1.0787922
##	[332,]	1.44192947	1.0787922
##	[333,]	-1.37091218	1.0787922
##	[334,]	0.03550864	1.0787922
##	[335,]	0.03550864	-0.8622650
##	[336,]	0.73871905	-0.2152459
##	[337,]	-1.37091218	0.4317731
##	[338,]	1.44192947	1.0787922
##	[339,]	0.73871905	-1.5092841
##	[340,]	-0.66770177	1.0787922
##	[341,]	-0.66770177	-1.5092841
##	[342,]	1.44192947	-0.8622650
##	[343,]	0.73871905	1.0787922
##	[344,]	-1.37091218	1.0787922
##	[345,]	-1.37091218	-1.5092841
##	[346,]	0.03550864	0.4317731
##	[347,]	0.03550864	1.0787922
##	[348,]	1.44192947	-1.5092841
##	[349,]	0.73871905	0.4317731
##	[350,]	1.44192947	1.0787922

##	[351,]	0.03550864	-0.2152459
##	[352,]	0.73871905	1.0787922
##	[353,]	1.44192947	-0.8622650
##	[354,]	0.03550864	-0.2152459
##	[355,]	-1.37091218	0.4317731
##	[356,]	-0.66770177	-1.5092841
##	[357,]	-0.66770177	-0.2152459
##	[358,]	0.03550864	1.0787922
##	[359,]	-1.37091218	1.0787922
##	[360,]	-1.37091218	1.0787922
##	[361,]	-1.37091218	-0.8622650
##	[362,]	0.03550864	1.0787922
##	[363,]	1.44192947	-0.2152459
##	[364,]	1.44192947	-0.2152459
##	[365,]	0.73871905	-1.5092841
##	[366,]	1.44192947	-1.5092841
##	[367,]	0.03550864	-1.5092841
##	[368,]	1.44192947	-0.2152459
##	[369,]	0.73871905	1.0787922
##	[370,]	1.44192947	1.0787922
##	[371,]	0.03550864	1.0787922
##	[372,]	-0.66770177	-0.2152459
##	[373,]	-0.66770177	-1.5092841
##	[374,]	1.44192947	-1.5092841
##	[375,]	1.44192947	1.0787922
##	[376,]	-1.37091218	-1.5092841
##	[377,]	-1.37091218	1.0787922
##	[378,]	1.44192947	0.4317731
##	[379,]	1.44192947	1.0787922
##	[380,]	0.03550864	-0.2152459
##	[381,]	1.44192947	0.4317731
##	[382,]	-0.66770177	1.0787922
##	[383,]	0.73871905	1.0787922
##	[384,]	0.03550864	-1.5092841
##	[385,]	-1.37091218	-1.5092841
##	[386,]	1.44192947	-1.5092841
##	[387,]	0.73871905	-0.8622650
##	[388,]	0.73871905	1.0787922
##	[389,]	0.03550864	1.0787922
##	[390,]	-0.66770177	-0.2152459
##	[391,]	-1.37091218	-0.8622650
##	[392,]	-0.66770177	-0.8622650
##	[393,]	0.03550864	-1.5092841
##	[394,]	0.03550864	-0.2152459
##	[395,]	-1.37091218	-0.2152459
##	[396,]	0.03550864	-1.5092841
##	[397,]	0.03550864	-1.5092841
##	[398,]	-1.37091218	1.0787922
##	[399,]	0.73871905	-1.5092841
##	[400,]	-0.66770177	1.0787922

##	[401,]	-1.37091218	-1.5092841
##	[402,]	-1.37091218	-1.5092841
##	[403,]	0.03550864	1.0787922
##	[404,]	1.44192947	0.4317731
##	[405,]	1.44192947	1.0787922
##	[406,]	-1.37091218	-0.2152459
##	[407,]	-1.37091218	-1.5092841
##	[408,]	0.73871905	1.0787922
##	[409,]	-1.37091218	-1.5092841
##	[410,]	0.73871905	-0.2152459
##	[411,]	1.44192947	1.0787922
##	[412,]	-1.37091218	-0.2152459
##	[413,]	-1.37091218	1.0787922
##	[414,]	1.44192947	0.4317731
##	[415,]	-1.37091218	-0.2152459
##	[416,]	1.44192947	-1.5092841
##	[417,]	0.03550864	-0.2152459
##	[418,]	0.73871905	1.0787922
##	[419,]	-0.66770177	1.0787922
##	[420,]	-1.37091218	-0.8622650
##	[421,]	0.03550864	-0.8622650
##	[422,]	-0.66770177	1.0787922
##	[423,]	1.44192947	1.0787922
##	[424,]	-0.66770177	1.0787922
##	[425,]	-0.66770177	1.0787922
##	[426,]	0.03550864	1.0787922
##	[427,]	-1.37091218	-1.5092841
##	[428,]	-1.37091218	-1.5092841
##	[429,]	-0.66770177	1.0787922
##	[430,]	0.73871905	0.4317731
##	[431,]	0.73871905	0.4317731
##	[432,]	0.73871905	-0.2152459
##	[433,]	-1.37091218	-0.2152459
##	[434,]	-0.66770177	-1.5092841
##	[435,]	0.73871905	0.4317731
##	[436,]	-0.66770177	1.0787922
##	[437,]	-1.37091218	-0.8622650
##	[438,]	0.03550864	-1.5092841
##	[439,]	-1.37091218	0.4317731
##	[440,]	-0.66770177	-1.5092841
##	[441,]	0.03550864	-0.2152459
##	[442,]	-0.66770177	1.0787922
##	[443,]	-0.66770177	1.0787922
##	[444,]	0.73871905	-1.5092841
##	[445,]	1.44192947	-1.5092841
##	[446,]	0.03550864	1.0787922
##	[447,]	0.03550864	-0.8622650
##	[448,]	-1.37091218	0.4317731
##	[449,]	0.03550864	0.4317731
##	[450,]	-0.66770177	1.0787922

##	[451,]	-1.37091218	1.0787922
##	[452,]	-0.66770177	-0.2152459
##	[453,]	0.73871905	1.0787922
##	[454,]	-0.66770177	-0.2152459
##	[455,]	0.73871905	1.0787922
##	[456,]	-1.37091218	-0.2152459
##	[457,]	0.73871905	1.0787922
##	[458,]	0.73871905	-0.8622650
##	[459,]	-1.37091218	-1.5092841
##	[460,]	1.44192947	-0.8622650
##	[461,]	1.44192947	1.0787922
##	[462,]	0.73871905	-0.2152459
##	[463,]	-0.66770177	-0.8622650
##	[464,]	-1.37091218	0.4317731
##	[465,]	-0.66770177	-1.5092841
##	[466,]	-0.66770177	-1.5092841
##	[467,]	1.44192947	-1.5092841
##	[468,]	-1.37091218	-1.5092841
##	[469,]	-0.66770177	0.4317731
##	[470,]	0.03550864	-1.5092841
##	[471,]	0.03550864	-0.8622650
##	[472,]	1.44192947	-1.5092841
##	[473,]	-0.66770177	-0.8622650
##	[474,]	-1.37091218	1.0787922
##	[475,]	1.44192947	1.0787922
##	[476,]	-0.66770177	1.0787922
##	[477,]	-0.66770177	1.0787922
##	[478,]	0.73871905	0.4317731
##	[479,]	-1.37091218	0.4317731
##	[480,]	-0.66770177	1.0787922
##	[481,]	0.03550864	1.0787922
##	[482,]	-1.37091218	-1.5092841
##	[483,]	-0.66770177	1.0787922
##	[484,]	0.73871905	-0.2152459
##	[485,]	1.44192947	-1.5092841
##	[486,]	-1.37091218	-1.5092841
##	[487,]	-1.37091218	-1.5092841
##	[488,]	0.73871905	-1.5092841
##	[489,]	0.03550864	-0.2152459
##	[490,]	1.44192947	-0.8622650
##	[491,]	-1.37091218	-1.5092841
##	[492,]	-0.66770177	-0.8622650
##	[493,]	0.03550864	1.0787922
##	[494,]	0.73871905	1.0787922
##	[495,]	0.73871905	-1.5092841
##	[496,]	0.73871905	0.4317731
##	[497,]	-0.66770177	-0.8622650
##	[498,]	0.03550864	-1.5092841
##	[499,]	-1.37091218	1.0787922
##	[500,]	-1.37091218	-1.5092841

##	[501,]	-0.66770177	1.0787922
##	[502,]	0.73871905	-1.5092841
##	[503,]	0.03550864	-1.5092841
##	[504,]	0.03550864	-0.2152459
##	[505,]	1.44192947	1.0787922
##	[506,]	0.03550864	-1.5092841
##	[507,]	1.44192947	0.4317731
##	[508,]	1.44192947	-0.2152459
##	[509,]	-1.37091218	-0.2152459
##	[510,]	1.44192947	0.4317731
##	[511,]	1.44192947	1.0787922
##	[512,]	1.44192947	0.4317731
##	[513,]	-1.37091218	-1.5092841
##	[514,]	1.44192947	0.4317731
##	[515,]	-1.37091218	-0.8622650
##	[516,]	0.03550864	-1.5092841
##	[517,]	1.44192947	1.0787922
##	[518,]	0.73871905	-0.8622650
##	[519,]	-1.37091218	1.0787922
##	[520,]	0.73871905	-0.8622650
##	[521,]	0.03550864	-0.2152459
##	[522,]	-0.66770177	0.4317731
##	[523,]	0.73871905	1.0787922
##	[524,]	0.03550864	0.4317731
##	[525,]	1.44192947	1.0787922
##	[526,]	0.73871905	0.4317731
##	[527,]	0.73871905	1.0787922
##	[528,]	0.73871905	1.0787922
##	[529,]	0.73871905	-1.5092841
##	[530,]	-1.37091218	-0.2152459
##	[531,]	0.73871905	-0.8622650
##	[532,]	0.03550864	-1.5092841
##	[533,]	0.03550864	-1.5092841
##	[534,]	1.44192947	-1.5092841
##	[535,]	-0.66770177	1.0787922
##	[536,]	1.44192947	1.0787922
##	[537,]	1.44192947	1.0787922
##	[538,]	1.44192947	-1.5092841
##	[539,]	-0.66770177	1.0787922
##	[540,]	0.73871905	-1.5092841
##	[541,]	1.44192947	1.0787922
##	[542,]	0.03550864	-0.2152459
##	[543,]	0.03550864	-0.8622650
##	[544,]	-0.66770177	-0.8622650
##	[545,]	0.73871905	1.0787922
##	[546,]	1.44192947	-1.5092841
##	[547,]	1.44192947	-0.8622650
##	[548,]	1.44192947	0.4317731
##	[549,]	-1.37091218	-0.2152459
##	[550,]	-1.37091218	-0.8622650

##	[551,]	0.03550864	1.0787922
##	[552,]	-1.37091218	-1.5092841
##	[553,]	0.03550864	1.0787922
##	[554,]	1.44192947	1.0787922
##	[555,]	0.03550864	-0.2152459
##	[556,]	-0.66770177	-0.2152459
##	[557,]	-0.66770177	-0.8622650
##	[558,]	1.44192947	1.0787922
##	[559,]	-1.37091218	0.4317731
##	[560,]	-1.37091218	-0.8622650
##	[561,]	1.44192947	1.0787922
##	[562,]	-0.66770177	-0.2152459
##	[563,]	1.44192947	-0.2152459
##	[564,]	0.73871905	0.4317731
##	[565,]	1.44192947	-0.2152459
##	[566,]	1.44192947	-0.8622650
##	[567,]	-1.37091218	0.4317731
##	[568,]	1.44192947	-0.8622650
##	[569,]	-0.66770177	-1.5092841
##	[570,]	0.03550864	1.0787922
##	[571,]	0.73871905	-0.2152459
##	[572,]	1.44192947	0.4317731
##	[573,]	1.44192947	1.0787922
##	[574,]	1.44192947	0.4317731
##	[575,]	0.73871905	0.4317731
##	[576,]	1.44192947	0.4317731
##	[577,]	1.44192947	0.4317731
##	[578,]	1.44192947	1.0787922
##	[579,]	0.03550864	1.0787922
##	[580,]	-1.37091218	-0.8622650
##	[581,]	1.44192947	-0.8622650
##	[582,]	0.03550864	1.0787922
##	[583,]	0.03550864	-1.5092841
##	[584,]	0.03550864	0.4317731
##	[585,]	-1.37091218	1.0787922
##	[586,]	-1.37091218	-0.2152459
##	[587,]	0.03550864	0.4317731
##	[588,]	1.44192947	1.0787922
##	[589,]	0.03550864	-0.2152459
##	[590,]	1.44192947	0.4317731
##	[591,]	0.03550864	0.4317731
##	[592,]	0.73871905	-0.2152459
##	[593,]	0.03550864	1.0787922
##	[594,]	0.03550864	1.0787922
##	[595,]	0.73871905	-1.5092841
##	[596,]	1.44192947	1.0787922
##	[597,]	0.73871905	0.4317731
##	[598,]	1.44192947	-0.8622650
##	[599,]	-0.66770177	1.0787922
##	[600,]	0.73871905	-0.8622650

##	[601,]	-0.66770177	1.0787922
##	[602,]	-1.37091218	1.0787922
##	[603,]	0.73871905	-0.2152459
##	[604,]	0.03550864	-0.2152459
##	[605,]	0.03550864	1.0787922
##	[606,]	0.03550864	1.0787922
##	[607,]	-1.37091218	0.4317731
##	[608,]	-1.37091218	1.0787922
##	[609,]	-0.66770177	0.4317731
##	[610,]	0.73871905	-0.2152459
##	[611,]	-1.37091218	-1.5092841
##	[612,]	0.03550864	1.0787922
##	[613,]	-1.37091218	-0.8622650
##	[614,]	0.03550864	1.0787922
##	[615,]	0.03550864	1.0787922
##	[616,]	-0.66770177	-0.8622650
##	[617,]	0.03550864	0.4317731
##	[618,]	1.44192947	-1.5092841
##	[619,]	1.44192947	-1.5092841
##	[620,]	0.03550864	-1.5092841
##	[621,]	0.73871905	-0.8622650
##	[622,]	-0.66770177	-0.2152459
##	[623,]	0.73871905	1.0787922
##	[624,]	0.03550864	-0.2152459
##	[625,]	1.44192947	-0.8622650
##	[626,]	-0.66770177	1.0787922
##	[627,]	0.73871905	0.4317731
##	[628,]	-0.66770177	-1.5092841
##	[629,]	1.44192947	0.4317731
##	[630,]	0.73871905	1.0787922
##	[631,]	0.03550864	-1.5092841
##	[632,]	-0.66770177	1.0787922
##	[633,]	1.44192947	0.4317731
##	[634,]	0.03550864	-0.2152459
##	[635,]	0.03550864	-0.8622650
##	[636,]	-1.37091218	-0.8622650
##	[637,]	0.73871905	0.4317731
##	[638,]	0.73871905	1.0787922
##	[639,]	-1.37091218	1.0787922
##	[640,]	-0.66770177	-1.5092841
##	[641,]	1.44192947	0.4317731
##	[642,]	-0.66770177	-0.2152459
##	[643,]	-1.37091218	1.0787922
##	[644,]	0.73871905	1.0787922
##	[645,]	-0.66770177	1.0787922
##	[646,]	0.03550864	1.0787922
##	[647,]	-1.37091218	-1.5092841
##	[648,]	0.73871905	1.0787922
##	[649,]	0.03550864	-0.8622650
##	[650,]	0.73871905	1.0787922

##	[651,]	0.73871905	1.0787922
##	[652,]	-0.66770177	-0.8622650
##	[653,]	-1.37091218	-1.5092841
##	[654,]	-0.66770177	1.0787922
##	[655,]	-0.66770177	0.4317731
##	[656,]	-0.66770177	-1.5092841
##	[657,]	1.44192947	1.0787922
##	[658,]	0.03550864	-0.2152459
##	[659,]	1.44192947	0.4317731
##	[660,]	-1.37091218	-0.8622650
##	[661,]	0.03550864	-1.5092841
##	[662,]	-0.66770177	0.4317731
##	[663,]	-0.66770177	1.0787922
##	[664,]	0.73871905	-1.5092841
##	[665,]	-0.66770177	-0.8622650
##	[666,]	1.44192947	1.0787922
##	[667,]	1.44192947	1.0787922
##	[668,]	0.73871905	0.4317731
##	[669,]	-1.37091218	-0.8622650
##	[670,]	0.03550864	-0.2152459
##	[671,]	0.03550864	0.4317731
##	[672,]	-0.66770177	1.0787922
##	[673,]	-1.37091218	1.0787922
##	[674,]	-1.37091218	1.0787922
##	[675,]	0.73871905	-0.2152459
##	[676,]	-0.66770177	-0.8622650
##	[677,]	-0.66770177	-0.2152459
##	[678,]	0.73871905	1.0787922
##	[679,]	1.44192947	1.0787922
##	[680,]	-0.66770177	1.0787922
##	[681,]	1.44192947	1.0787922
##	[682,]	0.03550864	-0.2152459
##	[683,]	0.03550864	1.0787922
##	[684,]	-1.37091218	1.0787922
##	[685,]	-1.37091218	-0.2152459
##	[686,]	0.03550864	1.0787922
##	[687,]	0.03550864	-0.2152459
##	[688,]	1.44192947	-0.8622650
##	[689,]	-1.37091218	-1.5092841
##	[690,]	-0.66770177	1.0787922
##	[691,]	-0.66770177	-0.8622650
##	[692,]	0.73871905	-0.2152459
##	[693,]	-0.66770177	-0.2152459
##	[694,]	0.73871905	-0.2152459
##	[695,]	0.03550864	-1.5092841
##	[696,]	0.03550864	1.0787922
##	[697,]	-1.37091218	-0.2152459
##	[698,]	-1.37091218	-1.5092841
##	[699,]	0.73871905	-0.8622650
##	[700,]	-0.66770177	-1.5092841

##	[701,]	-1.37091218	1.0787922
##	[702,]	1.44192947	1.0787922
##	[703,]	-0.66770177	-0.8622650
##	[704,]	1.44192947	1.0787922
##	[705,]	1.44192947	0.4317731
##	[706,]	1.44192947	1.0787922
##	[707,]	0.73871905	-1.5092841
##	[708,]	0.73871905	-0.8622650
##	[709,]	0.03550864	1.0787922
##	[710,]	1.44192947	-0.2152459
##	[711,]	1.44192947	-0.8622650
##	[712,]	-0.66770177	1.0787922
##	[713,]	-1.37091218	-0.2152459
##	[714,]	-0.66770177	-0.2152459
##	[715,]	0.73871905	1.0787922
##	[716,]	-1.37091218	1.0787922
##	[717,]	-0.66770177	-0.8622650
##	[718,]	-1.37091218	1.0787922
##	[719,]	0.03550864	0.4317731
##	[720,]	-0.66770177	-0.2152459
##	[721,]	1.44192947	-1.5092841
##	[722,]	0.73871905	-1.5092841
##	[723,]	-0.66770177	-1.5092841
##	[724,]	-1.37091218	-1.5092841
##	[725,]	-1.37091218	-0.8622650
##	[726,]	1.44192947	-0.2152459
##	[727,]	-0.66770177	1.0787922
##	[728,]	-0.66770177	-1.5092841
##	[729,]	1.44192947	1.0787922
##	[730,]	1.44192947	1.0787922
##	[731,]	1.44192947	1.0787922
##	[732,]	-0.66770177	-1.5092841
##	[733,]	0.73871905	-1.5092841
##	[734,]	-0.66770177	1.0787922
##	[735,]	-1.37091218	-1.5092841
##	[736,]	-1.37091218	-0.2152459
##	[737,]	0.03550864	0.4317731
##	[738,]	0.03550864	1.0787922
##	[739,]	1.44192947	0.4317731
##	[740,]	1.44192947	0.4317731
##	[741,]	1.44192947	0.4317731
##	[742,]	0.03550864	-1.5092841
##	[743,]	0.73871905	-1.5092841
##	[744,]	0.73871905	-0.8622650
##	[745,]	1.44192947	-0.2152459
##	[746,]	0.03550864	0.4317731
##	[747,]	-0.66770177	0.4317731
##	[748,]	0.73871905	-1.5092841
##	[749,]	0.03550864	1.0787922
##	[750,]	-0.66770177	0.4317731

##	[751,]	1.44192947	-1.5092841
##	[752,]	-1.37091218	-1.5092841
##	[753,]	-0.66770177	-1.5092841
##	[754,]	-0.66770177	1.0787922
##	[755,]	0.73871905	-0.8622650
##	[756,]	0.73871905	1.0787922
##	[757,]	0.03550864	1.0787922
##	[758,]	1.44192947	0.4317731
##	[759,]	0.73871905	0.4317731
##	[760,]	1.44192947	1.0787922
##	[761,]	0.03550864	-1.5092841
##	[762,]	1.44192947	-0.8622650
##	[763,]	1.44192947	1.0787922
##	[764,]	-1.37091218	1.0787922
##	[765,]	-1.37091218	-0.8622650
##	[766,]	1.44192947	-0.2152459
##	[767,]	-0.66770177	0.4317731
##	[768,]	0.03550864	-0.2152459
##	[769,]	0.03550864	0.4317731
##	[770,]	0.73871905	0.4317731
##	[771,]	-1.37091218	-0.8622650
##	[772,]	0.03550864	-1.5092841
##	[773,]	0.03550864	0.4317731
##	[774,]	1.44192947	0.4317731
##	[775,]	0.03550864	-1.5092841
##	[776,]	1.44192947	1.0787922
##	[777,]	1.44192947	-0.2152459
##	[778,]	1.44192947	-1.5092841
##	[779,]	0.03550864	1.0787922
##	[780,]	-0.66770177	1.0787922
##	[781,]	0.03550864	1.0787922
##	[782,]	0.73871905	1.0787922
##	[783,]	0.03550864	1.0787922
##	[784,]	0.03550864	1.0787922
##	[785,]	-1.37091218	-1.5092841
##	[786,]	0.73871905	0.4317731
##	[787,]	0.73871905	-1.5092841
##	[788,]	1.44192947	-0.8622650
##	[789,]	0.03550864	-1.5092841
##	[790,]	0.03550864	1.0787922
##	[791,]	0.03550864	-1.5092841
##	[792,]	-1.37091218	-1.5092841
##	[793,]	1.44192947	-0.2152459
##	[794,]	0.03550864	-0.8622650
##	[795,]	0.73871905	1.0787922
##	[796,]	1.44192947	1.0787922
##	[797,]	1.44192947	0.4317731
##	[798,]	1.44192947	-1.5092841
##	[799,]	-1.37091218	-1.5092841
##	[800,]	0.03550864	1.0787922

##	[801,]	0.03550864	-1.5092841
##	[802,]	1.44192947	-0.8622650
##	[803,]	0.03550864	0.4317731
##	[804,]	1.44192947	-0.2152459
##	[805,]	1.44192947	1.0787922
##	[806,]	0.03550864	0.4317731
##	[807,]	1.44192947	1.0787922
##	[808,]	0.03550864	1.0787922
##	[809,]	1.44192947	-1.5092841
##	[810,]	1.44192947	-1.5092841
##	[811,]	0.73871905	1.0787922
##	[812,]	0.03550864	1.0787922
##	[813,]	-0.66770177	0.4317731
##	[814,]	-0.66770177	1.0787922
##	[815,]	0.73871905	1.0787922
##	[816,]	1.44192947	1.0787922
##	[817,]	1.44192947	1.0787922
##	[818,]	0.73871905	-0.8622650
##	[819,]	1.44192947	0.4317731
##	[820,]	-0.66770177	1.0787922
##	[821,]	-1.37091218	-1.5092841
##	[822,]	-1.37091218	1.0787922
##	[823,]	-0.66770177	0.4317731
##	[824,]	1.44192947	-1.5092841
##	[825,]	-1.37091218	1.0787922
##	[826,]	-1.37091218	1.0787922
##	[827,]	0.03550864	-1.5092841
##	[828,]	-1.37091218	-0.8622650
##	[829,]	-0.66770177	-0.8622650
##	[830,]	-1.37091218	-0.8622650
##	[831,]	1.44192947	1.0787922
##	[832,]	0.73871905	-0.2152459
##	[833,]	-1.37091218	-0.8622650
##	[834,]	-1.37091218	-1.5092841
##	[835,]	-0.66770177	-0.2152459
##	[836,]	-1.37091218	-1.5092841
##	[837,]	0.73871905	0.4317731
##	[838,]	0.03550864	-0.2152459
##	[839,]	0.03550864	1.0787922
##	[840,]	-0.66770177	1.0787922
##	[841,]	0.03550864	-0.2152459
##	[842,]	0.73871905	-1.5092841
##	[843,]	-0.66770177	0.4317731
##	[844,]	1.44192947	1.0787922
##	[845,]	0.73871905	0.4317731
##	[846,]	-0.66770177	0.4317731
##	[847,]	-0.66770177	1.0787922
##	[848,]	0.03550864	1.0787922
##	[849,]	0.73871905	-0.8622650
##	[850,]	-0.66770177	0.4317731

##	[851,]	-1.37091218	1.0787922
##	[852,]	1.44192947	-0.2152459
##	[853,]	0.73871905	1.0787922
##	[854,]	0.03550864	1.0787922
##	[855,]	0.03550864	-0.2152459
##	[856,]	0.73871905	-0.2152459
##	[857,]	-0.66770177	1.0787922
##	[858,]	-0.66770177	1.0787922
##	[859,]	1.44192947	-1.5092841
##	[860,]	0.03550864	1.0787922
##	[861,]	0.73871905	0.4317731
##	[862,]	1.44192947	1.0787922
##	[863,]	0.73871905	1.0787922
##	[864,]	-1.37091218	1.0787922
##	[865,]	-0.66770177	-0.2152459
##	[866,]	-0.66770177	-0.2152459
##	[867,]	-0.66770177	-0.2152459
##	[868,]	-1.37091218	1.0787922
##	[869,]	0.03550864	0.4317731
##	[870,]	0.73871905	1.0787922
##	[871,]	-0.66770177	-0.8622650
##	[872,]	1.44192947	1.0787922
##	[873,]	-0.66770177	-0.8622650
##	[874,]	0.03550864	-0.8622650
##	[875,]	1.44192947	0.4317731
##	[876,]	1.44192947	1.0787922
##	[877,]	1.44192947	0.4317731
##	[878,]	-0.66770177	-0.8622650
##	[879,]	1.44192947	0.4317731
##	[880,]	0.73871905	1.0787922
##	[881,]	0.73871905	0.4317731
##	[882,]	0.73871905	1.0787922
##	[883,]	-0.66770177	-1.5092841
##	[884,]	0.03550864	-1.5092841
##	[885,]	-1.37091218	1.0787922
##	[886,]	-0.66770177	1.0787922
##	[887,]	1.44192947	-1.5092841
##	[888,]	-0.66770177	-0.2152459
##	[889,]	1.44192947	1.0787922
##	[890,]	1.44192947	-1.5092841
##	[891,]	1.44192947	-0.2152459
##	[892,]	0.73871905	0.4317731
##	[893,]	0.73871905	-0.8622650
##	[894,]	-0.66770177	-0.8622650
##	[895,]	1.44192947	0.4317731
##	[896,]	0.73871905	0.4317731
##	[897,]	0.73871905	-0.2152459
##	[898,]	0.03550864	-0.2152459
##	[899,]	-1.37091218	-0.2152459
##	[900,]	1.44192947	1.0787922

##	[901,]	-0.66770177	-0.2152459
##	[902,]	-0.66770177	1.0787922
##	[903,]	0.73871905	-0.2152459
##	[904,]	0.03550864	-0.2152459
##	[905,]	1.44192947	-1.5092841
##	[906,]	1.44192947	-0.8622650
##	[907,]	-1.37091218	-1.5092841
##	[908,]	-1.37091218	-0.8622650
##	[909,]	0.03550864	-0.8622650
##	[910,]	0.73871905	-0.2152459
##	[911,]	-1.37091218	-1.5092841
##	[912,]	1.44192947	1.0787922
##	[913,]	0.03550864	0.4317731
##	[914,]	0.73871905	-0.8622650
##	[915,]	0.73871905	-0.2152459
##	[916,]	-1.37091218	1.0787922
##	[917,]	-1.37091218	0.4317731
##	[918,]	-0.66770177	-0.2152459
##	[919,]	0.03550864	0.4317731
##	[920,]	0.03550864	-1.5092841
##	[921,]	-1.37091218	-1.5092841
##	[922,]	0.03550864	0.4317731
##	[923,]	1.44192947	1.0787922
##	[924,]	-1.37091218	-0.2152459
##	[925,]	-0.66770177	1.0787922
##	[926,]	-1.37091218	1.0787922
##	[927,]	-0.66770177	-1.5092841
##	[928,]	-1.37091218	1.0787922
##	[929,]	-1.37091218	1.0787922
##	[930,]	0.03550864	-0.2152459
##	[931,]	-0.66770177	-1.5092841
##	[932,]	-0.66770177	-0.2152459
##	[933,]	0.03550864	-0.8622650
##	[934,]	0.03550864	1.0787922
##	[935,]	-1.37091218	0.4317731
##	[936,]	-1.37091218	1.0787922
##	[937,]	-0.66770177	-0.8622650
##	[938,]	0.73871905	1.0787922
##	[939,]	-1.37091218	1.0787922
##	[940,]	0.73871905	0.4317731
##	[941,]	0.03550864	0.4317731
##	[942,]	-0.66770177	-0.8622650
##	[943,]	1.44192947	1.0787922
##	[944,]	0.73871905	1.0787922
##	[945,]	0.03550864	1.0787922
##	[946,]	1.44192947	1.0787922
##	[947,]	-1.37091218	-1.5092841
##	[948,]	-1.37091218	-0.2152459
##	[949,]	1.44192947	1.0787922
##	[950,]	0.73871905	1.0787922

##	[951,]	0.73871905	1.0787922
##	[952,]	1.44192947	-1.5092841
##	[953,]	-1.37091218	-0.8622650
##	[954,]	0.73871905	0.4317731
##	[955,]	0.03550864	0.4317731
##	[956,]	0.03550864	1.0787922
##	[957,]	-1.37091218	0.4317731
##	[958,]	-1.37091218	-1.5092841
##	[959,]	-0.66770177	1.0787922
##	[960,]	-0.66770177	0.4317731
##	[961,]	-1.37091218	-1.5092841
##	[962,]	0.03550864	1.0787922
##	[963,]	-1.37091218	-1.5092841
##	[964,]	0.73871905	-0.2152459
##	[965,]	1.44192947	0.4317731
##	[966,]	0.03550864	-1.5092841
##	[967,]	1.44192947	1.0787922
##	[968,]	-0.66770177	0.4317731
##	[969,]	0.03550864	0.4317731
##	[970,]	0.03550864	-1.5092841
##	[971,]	-1.37091218	-0.2152459
##	[972,]	0.73871905	-0.2152459
##	[973,]	-0.66770177	1.0787922
##	[974,]	-0.66770177	0.4317731
##	[975,]	-1.37091218	-0.2152459
##	[976,]	0.03550864	1.0787922
##	[977,]	0.03550864	-0.8622650
##	[978,]	0.03550864	-0.2152459
##	[979,]	-0.66770177	0.4317731
##	[980,]	-0.66770177	0.4317731
##	[981,]	0.03550864	-0.2152459
##	[982,]	-0.66770177	-1.5092841
##	[983,]	0.73871905	0.4317731
##	[984,]	0.03550864	0.4317731
##	[985,]	0.03550864	0.4317731
##	[986,]	-0.66770177	-0.8622650
##	[987,]	-0.66770177	-1.5092841
##	[988,]	-1.37091218	-0.8622650
##	[989,]	1.44192947	-1.5092841
##	[990,]	0.03550864	-1.5092841
##	[991,]	0.73871905	-1.5092841
##	[992,]	-1.37091218	1.0787922
##	[993,]	-1.37091218	-1.5092841
##	[994,]	0.03550864	-0.8622650
##	[995,]	0.03550864	1.0787922
##	[996,]	-0.66770177	1.0787922
##	[997,]	-1.37091218	-0.8622650
##	[998,]	1.44192947	1.0787922
##	[999,]	0.03550864	-1.5092841
##	[1000,]	1.44192947	-1.5092841

```

## [1001,]      0.73871905  1.0787922
## [1002,]     -0.66770177  0.4317731
## [1003,]      0.03550864 -0.8622650
## [1004,]     -0.66770177  1.0787922
## [1005,]      0.73871905  0.4317731
## [1006,]      0.73871905  0.4317731
## [1007,]     -1.37091218  1.0787922
## [1008,]     -1.37091218  1.0787922
## [1009,]     -1.37091218  0.4317731
## [1010,]     -0.66770177  1.0787922
## attr(,"scaled:center")
##           Psychology      Politics      Mathematics
##           3.137624      2.596040      2.333663
##           Physics      Internet      PC
##           2.064356      4.179208      3.138614
## Economy.Management      Biology      Chemistry
##           2.642574      2.677228      2.160396
##           Reading      Geography      Foreign.languages
##           3.157426      3.083168      3.781188
##           Medicine      Law      Cars
##           2.517822      2.255446      2.684158
## Art.exhibitions      Religion      Countryside..outdoors
##           2.594059      2.276238      3.691089
##           Dancing      Musical.instruments      Writing
##           2.466337      2.323762      1.901980
##           Passive.sport      Active.sport      Gardening
##           3.386139      3.294059      1.907921
##           Celebrities      Shopping      Science.and.technology
##           2.359406      3.278218      3.228713
##           Theatre      Fun.with.friends      Adrenaline.sports
##           3.018812      4.557426      2.949505
##           Pets
##           3.332673
## attr(,"scaled:scale")
##           Psychology      Politics      Mathematics
##           1.2568426      1.2938768      1.3528062
##           Physics      Internet      PC
##           1.2260861      0.9202939      1.3201924
## Economy.Management      Biology      Chemistry
##           1.3452443      1.3890326      1.3758557
##           Reading      Geography      Foreign.languages
##           1.4959374      1.2783994      1.1397158
##           Medicine      Law      Cars
##           1.3809475      1.2426573      1.4399945
## Art.exhibitions      Religion      Countryside..outdoors
##           1.3228061      1.3221936      1.1961367
##           Dancing      Musical.instruments      Writing
##           1.4527086      1.5121345      1.2870076
##           Passive.sport      Active.sport      Gardening
##           1.4027461      1.5031069      1.1772693

```

```
##          Celebrities          Shopping Science.and.technology
##          1.2704368          1.2860542          1.2850314
##          Theatre          Fun.with.friends          Adrenaline.sports
##          1.3284426          0.7377472          1.4220495
##          Pets
##          1.5455495
```

```
#as.matrix(scale.hobbies)%*%fact.Load.hobbies%%solve(t(fact.Load.hobbies)%*%fact.Load.hobbies)
```

```
library(psych)
```

```
## Warning: package 'psych' was built under R version 3.6.2
```

```
##
```

```
## Attaching package: 'psych'
```

```
## The following objects are masked from 'package:ggplot2':
```

```
##
```

```
##      %+%, alpha
```

```
## The following object is masked from 'package:outliers':
```

```
##
```

```
##      outlier
```

```
fit.pc.hobbies<- principal(hobbies_transformed[-1], nfactors=4,
rotate="varimax")
```

```
fit.pc.hobbies
```

```
## Principal Components Analysis
```

```
## Call: principal(r = hobbies_transformed[-1], nfactors = 4, rotate =
"varimax")
```

```
## Standardized loadings (pattern matrix) based upon correlation matrix
```

```
##          RC1   RC2   RC3   RC4   h2   u2 com
## Psychology   0.52 -0.02  0.07  0.00 0.27 0.73 1.0
## Politics     0.45  0.34 -0.28 -0.15 0.42 0.58 2.9
## Mathematics  0.11  0.41  0.17 -0.43 0.39 0.61 2.5
## Physics       0.10  0.43  0.37 -0.53 0.62 0.38 2.8
## Internet     -0.06  0.49 -0.15  0.04 0.27 0.73 1.2
## PC           -0.08  0.62 -0.04 -0.30 0.48 0.52 1.5
## Economy.Management 0.20  0.42 -0.39  0.09 0.37 0.63 2.6
## Biology       0.15 -0.02  0.83  0.03 0.71 0.29 1.1
## Chemistry     0.05  0.01  0.80 -0.13 0.66 0.34 1.1
## Reading       0.62 -0.35  0.12  0.03 0.52 0.48 1.7
## Geography     0.38  0.29 -0.03 -0.01 0.23 0.77 1.9
## Foreign.languages 0.52  0.06 -0.09  0.18 0.32 0.68 1.3
## Medicine      0.23  0.03  0.74  0.00 0.60 0.40 1.2
## Law           0.40  0.34 -0.19  0.13 0.33 0.67 2.6
## Cars         -0.17  0.66 -0.04  0.01 0.47 0.53 1.1
## Art.exhibitions 0.66 -0.09  0.15  0.12 0.48 0.52 1.2
## Religion      0.49  0.00  0.18 -0.16 0.30 0.70 1.5
## Countryside..outdoors 0.28  0.12  0.28  0.16 0.20 0.80 3.0
```

```

## Dancing      0.36  0.07  0.25  0.44  0.39  0.61  2.6
## Musical.instruments 0.45  0.02  0.18 -0.09  0.24  0.76  1.4
## Writing      0.56 -0.13  0.07 -0.06  0.34  0.66  1.2
## Passive.sport -0.13  0.35  0.02  0.19  0.18  0.82  1.9
## Active.sport  0.00  0.47  0.15  0.23  0.29  0.71  1.7
## Gardening    0.19  0.03  0.40  0.24  0.26  0.74  2.1
## Celebrities  -0.01  0.04 -0.04  0.60  0.37  0.63  1.0
## Shopping     0.08  0.02  0.04  0.72  0.52  0.48  1.0
## Science.and.technology 0.09  0.54  0.23 -0.31  0.44  0.56  2.1
## Theatre      0.62 -0.17  0.15  0.18  0.47  0.53  1.5
## Fun.with.friends 0.06  0.24  0.03  0.40  0.22  0.78  1.7
## Adrenaline.sports 0.03  0.55  0.12  0.19  0.35  0.65  1.3
## Pets        -0.03  0.04  0.28  0.35  0.21  0.79  2.0
##
##              RC1  RC2  RC3  RC4
## SS loadings  3.47 3.10 2.96 2.40
## Proportion Var 0.11 0.10 0.10 0.08
## Cumulative Var 0.11 0.21 0.31 0.38
## Proportion Explained 0.29 0.26 0.25 0.20
## Cumulative Proportion 0.29 0.55 0.80 1.00
##
## Mean item complexity = 1.7
## Test of the hypothesis that 4 components are sufficient.
##
## The root mean square of the residuals (RMSR) is 0.07
## with the empirical chi square 4069.24 with prob < 0
##
## Fit based upon off diagonal values = 0.83

round(fit.pc.hobbies$values, 3)

## [1] 4.127 3.196 2.505 2.099 1.563 1.347 1.141 1.125 1.028 0.992 0.921
##      0.891
## [13] 0.854 0.773 0.732 0.717 0.656 0.639 0.623 0.564 0.550 0.519 0.503
##      0.471
## [25] 0.444 0.429 0.380 0.368 0.309 0.300 0.235

fit.pc.hobbies$loadings

##
## Loadings:
##              RC1    RC2    RC3    RC4
## Psychology    0.516
## Politics      0.453  0.340 -0.282 -0.148
## Mathematics   0.109  0.407  0.172 -0.428
## Physics              0.432  0.371 -0.533
## Internet              0.491 -0.152
## PC              0.620      -0.297
## Economy.Management 0.201  0.415 -0.391
## Biology        0.150      0.829
## Chemistry              0.800 -0.126

```

```
## Reading      0.619 -0.352  0.117
## Geography    0.384  0.289
## Foreign.languages 0.523          0.183
## Medicine     0.231          0.741
## Law          0.405  0.340 -0.190  0.127
## Cars        -0.172  0.664
## Art.exhibitions 0.658          0.155  0.118
## Religion     0.490          0.176 -0.164
## Countryside..outdoors 0.276  0.120  0.280  0.163
## Dancing      0.356          0.255  0.439
## Musical.instruments 0.445          0.179
## Writing      0.557 -0.133
## Passive.sport -0.132  0.354          0.193
## Active.sport  0.468  0.153  0.227
## Gardening    0.186          0.404  0.238
## Celebrities          0.604
## Shopping          0.718
## Science.and.technology 0.537  0.231 -0.307
## Theatre      0.624 -0.170  0.150  0.182
## Fun.with.friends 0.244          0.397
## Adrenaline.sports 0.548  0.119  0.185
## Pets          0.280  0.352
```

```
##
##          RC1   RC2   RC3   RC4
## SS loadings  3.466 3.103 2.962 2.395
## Proportion Var 0.112 0.100 0.096 0.077
## Cumulative Var 0.112 0.212 0.307 0.385
```

Loadings with more digits

```
for (i in c(1,3,2,4)) { print(fit.pc.hobbies$loadings[[1,i]])}
```

```
## [1] 0.5155466
## [1] 0.06925773
## [1] -0.01927374
## [1] -0.003369323
```

Communalities

```
fit.pc.hobbies$communality
```

```
##          Psychology          Politics          Mathematics
##          0.2709678          0.4227214          0.3897846
##          Physics          Internet          PC
##          0.6174207          0.2693811          0.4806961
##          Economy.Management          Biology          Chemistry
##          0.3742250          0.7110589          0.6590204
##          Reading          Geography          Foreign.languages
##          0.5213924          0.2316020          0.3194685
##          Medicine          Law          Cars
##          0.6039169          0.3314568          0.4728379
##          Art.exhibitions          Religion          Countryside..outdoors
##          0.4777840          0.2982826          0.1953626
```


##	Dancing	Musical.instruments	Writing
##	0.3884363	0.2387178	0.3357812
##	Passive.sport	Active.sport	Gardening
##	0.1802493	0.2940541	0.2551064
##	Celebrities	Shopping	Science.and.technology
##	0.3679212	0.5241852	0.4437837
##	Theatre	Fun.with.friends	Adrenaline.sports
##	0.4744532	0.2215583	0.3497875
##	Pets		
##	0.2052340		

Rotated factor scores, Notice the columns ordering: RC1, RC3, RC2 and RC4
fit.pc.hobbies\$scores

##		RC1	RC2	RC3	RC4
##	[1,]	-0.013510277	0.4653126347	0.917318248	0.3105168598
##	[2,]	0.133862917	-0.1379748048	-1.738352054	-1.1610100427
##	[3,]	1.956079019	-0.3301226183	-0.431162349	0.3823538415
##	[4,]	1.459731308	-1.7092300568	-1.063138469	-1.8472695001
##	[5,]	-0.304038372	-1.2511368710	0.513893953	-0.7516882539
##	[6,]	-0.310119912	0.5700252284	0.961317222	-1.3779489423
##	[7,]	-0.832481547	-0.6185245510	1.863435585	0.6647612899
##	[8,]	-1.246746643	-0.3306023215	-0.665115403	0.2609972209
##	[9,]	-1.037982087	-2.9315306246	-0.248073698	-0.0649522268
##	[10,]	1.083461655	-0.3913669616	-0.949061694	0.6661685406
##	[11,]	-0.137667093	0.0803661872	-0.778955546	0.3006072080
##	[12,]	-0.152159766	-0.3342430614	-1.473779928	-0.7695700908
##	[13,]	-0.004065369	-0.8442354420	1.588221071	0.0730379195
##	[14,]	-0.491047636	-0.8813027109	-0.593901992	1.9540969471
##	[15,]	0.242585729	-1.8096864741	-0.376793230	1.4363149855
##	[16,]	0.595061201	1.5344083441	0.359551002	-0.6936162427
##	[17,]	-2.027620450	-0.6932184739	0.959235869	1.1573162668
##	[18,]	-1.117371071	-1.4586021965	2.028186441	-0.4500616006
##	[19,]	-0.737913843	0.4149694940	0.389719721	-2.2490305794
##	[20,]	-0.167344464	0.9145522217	-0.938801743	-0.5959489508
##	[21,]	-0.117681446	1.1520542400	1.032346374	-1.1167401401
##	[22,]	0.387131512	1.1363542400	-0.538191127	-0.5517468872
##	[23,]	-0.542754237	-0.2811938604	0.044681169	-0.3714159754
##	[24,]	0.530078433	-0.1596719869	1.809094600	0.6405676267
##	[25,]	1.960569926	1.1387891760	0.061340726	1.4643831482
##	[26,]	-0.348710702	-0.5491029127	-1.492212078	1.7459694354
##	[27,]	-0.915943551	0.2670222327	2.233221446	0.9526354413
##	[28,]	-1.456972909	-0.7702247738	1.525479888	0.2908272231
##	[29,]	-1.718545502	0.9307869783	-0.482099225	1.5013467879
##	[30,]	0.835683390	0.0517686135	0.368146451	1.2492445234
##	[31,]	-0.056472553	0.4889762704	-0.388286248	0.4254218018
##	[32,]	0.561644284	-1.3921198259	-0.437629917	-0.5133050548
##	[33,]	-0.019360140	-0.3398237218	-1.374666850	0.6835689824
##	[34,]	1.352629562	0.9712163093	0.567483236	1.2808919052
##	[35,]	0.973155869	1.3087977151	-0.572920172	-0.5196268745

##	[36,]	0.078984755	-0.2784430030	-0.786929076	1.5617727016
##	[37,]	0.305939085	-0.0748224151	1.451869472	-0.0088067032
##	[38,]	0.171508023	0.9208274071	1.261938596	-0.1586765720
##	[39,]	1.770997927	-0.1452488779	0.291612074	0.7775731921
##	[40,]	-1.845052816	0.1445482196	1.860459728	0.1917804267
##	[41,]	-1.719084954	-0.7586795268	-0.888473457	-0.0247295158
##	[42,]	0.322204052	0.7339524662	0.761546083	-2.4132613515
##	[43,]	-0.200457000	0.6438450173	0.277824858	-0.1594630387
##	[44,]	0.962010680	-0.0497351736	-1.555894728	1.1317135722
##	[45,]	1.417539675	0.6735736714	-0.451873497	0.6107740806
##	[46,]	0.016165179	0.9062337373	-0.158104240	-1.0520495116
##	[47,]	0.517266327	0.6574975012	-0.113902625	1.3771539157
##	[48,]	-0.390855624	-0.8065627046	-0.682165317	0.5000031174
##	[49,]	0.347115870	-0.3512491162	-0.121267189	-0.0422368892
##	[50,]	-1.039321162	-0.8933112877	-1.019117060	0.4200357378
##	[51,]	-0.577777201	-0.6240603475	1.947796869	0.1606211220
##	[52,]	0.002539722	1.4604652159	2.004121501	-1.0849204563
##	[53,]	1.344758009	0.3285074773	0.899800910	0.4840387249
##	[54,]	1.618807554	0.2036952915	0.404404973	0.5396529611
##	[55,]	1.172899765	-0.9619039727	0.681755701	-0.6902013203
##	[56,]	0.300931659	0.4323476824	0.501068013	-0.0557240105
##	[57,]	1.408545232	0.1669832772	-1.107841690	-0.7733320151
##	[58,]	0.718143532	-0.8495272546	-0.051947797	1.7376712454
##	[59,]	-1.488770048	0.2408301109	1.903084653	0.2527071721
##	[60,]	0.745067893	-1.9772326454	-2.166309680	-2.0323122208
##	[61,]	2.319296097	0.5278623362	-0.395137348	-1.9903938108
##	[62,]	-0.571214912	0.8104719422	-0.776675758	-0.5227069129
##	[63,]	-0.146087250	2.4536993479	0.168153299	-1.4666819032
##	[64,]	-0.542441131	1.3126998241	-1.028020146	0.3071445207
##	[65,]	-1.058989196	-0.7878184471	1.699681876	0.5844762179
##	[66,]	-1.224949989	-0.3168017885	-0.866861698	-0.8282313286
##	[67,]	-1.454206369	0.8764617192	-0.212368326	-1.2486769023
##	[68,]	0.479115416	-0.6440293934	-0.143642067	0.5173940505
##	[69,]	0.032850124	0.4217842755	-0.031628834	-0.9711987833
##	[70,]	-1.352593272	-1.9475084988	1.456903745	1.1815621191
##	[71,]	-1.003036438	0.6033740831	-1.035838246	0.8226333463
##	[72,]	-0.782629271	0.9831352620	-1.527044442	0.7846540451
##	[73,]	-1.328177826	-0.5474833289	-0.435811795	0.6266140328
##	[74,]	0.277423332	1.2506790920	-0.528300502	0.7921901873
##	[75,]	0.690247740	0.6534347050	-1.676636784	-0.2030782324
##	[76,]	1.568446021	1.4934391520	-0.041334524	0.6820146216
##	[77,]	-0.963576399	1.1045865420	-1.091947565	0.1780052540
##	[78,]	0.214882565	-1.2184290274	1.433697783	1.0988134593
##	[79,]	1.385727483	0.0976762576	1.855899312	0.2323769812
##	[80,]	0.216166374	1.4884701786	-0.986071976	1.1177719476
##	[81,]	-0.313341393	1.1544959759	-0.641851736	1.5241052485
##	[82,]	-0.564755137	1.6249769474	-0.808661928	0.5509253881
##	[83,]	0.652025056	-1.5763494697	-0.127838976	0.1808598037
##	[84,]	-0.365449198	0.3173334058	1.167060309	1.0659832568
##	[85,]	0.922530624	-0.0697978769	0.418700378	0.0872346856

##	[86,]	0.185903058	1.1446543322	0.525508372	-1.0073417944
##	[87,]	2.720359582	1.8578304660	0.593030681	-1.0747556339
##	[88,]	0.823518478	0.4946143863	-1.057520893	1.3664074836
##	[89,]	1.368764269	-1.2001991787	-0.744329673	1.1050032420
##	[90,]	0.411796239	-2.0739947289	-1.017407458	-0.0210240783
##	[91,]	-1.205036011	-1.1827295839	0.345822576	0.0409893042
##	[92,]	-1.491411079	-0.2369227469	0.837321703	1.1768604171
##	[93,]	1.441705454	-1.5311155690	-0.171927279	-0.7855007976
##	[94,]	-1.137772619	1.7827648591	-0.076694797	-1.4721207031
##	[95,]	-0.883024319	-0.0965171465	-0.584592081	-0.9635159773
##	[96,]	-0.348988301	1.4558318229	-0.918227952	0.1590841579
##	[97,]	-2.467997720	-2.3063615842	0.937175445	-1.0323596218
##	[98,]	-0.905125480	0.0303587801	-0.601140621	-1.4812687909
##	[99,]	-0.885126236	0.2306250381	-0.118974054	-0.1733022922
##	[100,]	-0.388144190	-0.3537393048	1.074393329	-0.7222170124
##	[101,]	-0.491002813	-0.0454775759	1.808271846	-0.3115690460
##	[102,]	-0.732665390	-0.6974646247	-1.291117344	-0.8696530648
##	[103,]	2.035260890	0.5292270051	0.720379210	-1.3603197429
##	[104,]	1.402617026	1.2547545944	-0.966305959	0.1682670150
##	[105,]	1.070427901	0.2897204723	-1.080489642	-1.0282445778
##	[106,]	-1.061232219	-0.7422575893	0.263852519	-0.4128183630
##	[107,]	-0.218748880	0.7559727969	-1.335904178	-0.5552673307
##	[108,]	0.465729108	-0.4461629676	1.826809336	-0.0741434528
##	[109,]	-0.542585629	-1.4620706351	-1.015591679	-1.6017016418
##	[110,]	-0.742072123	0.4580454976	-0.756716864	-1.7103588782
##	[111,]	-0.685063255	-0.1058323084	0.559307935	-0.9746678149
##	[112,]	1.270395689	-1.6758856754	0.143847706	-0.0644003065
##	[113,]	0.523375661	-1.6937377990	1.896215666	-0.1208168460
##	[114,]	-2.266732188	-0.1825131103	1.250787133	1.4230237343
##	[115,]	0.555199509	-0.9037580935	-0.439740124	0.6783764339
##	[116,]	0.993458112	0.6565051566	0.739394484	0.6335669695
##	[117,]	0.326342953	-2.7462935566	-0.519107831	-1.1200377308
##	[118,]	-1.679701893	0.0383539341	-0.489253516	-1.0539849713
##	[119,]	-0.038590241	-0.2592561362	-0.218409331	-1.2538697901
##	[120,]	-0.431348936	-1.5442044601	0.538359965	-2.0413366156
##	[121,]	1.190413164	0.7998552143	0.904473214	-1.6395326808
##	[122,]	-1.383196247	1.2553581957	-0.128466857	-0.6829401353
##	[123,]	0.260182479	-1.5205581617	-0.621259089	0.4546570888
##	[124,]	0.730878984	-0.8537389213	0.912161851	-0.6830067677
##	[125,]	1.603232142	1.1798512287	-0.048068886	-1.0578361487
##	[126,]	1.755480981	-0.9611086435	0.501943538	0.4267774480
##	[127,]	-0.525795761	-1.2099465493	-1.216147102	-0.0952834237
##	[128,]	0.941125524	0.6412928530	-0.777443623	-1.1717572335
##	[129,]	2.452695764	0.3703747465	1.472249928	-1.1479041630
##	[130,]	-0.673724613	-1.5066003179	1.396110741	0.0001112662
##	[131,]	1.778307032	0.6291055219	-1.728075773	0.7029583491
##	[132,]	-1.155765686	0.5378325406	-0.868523091	0.5240648399
##	[133,]	-0.035232819	-0.5571431732	-0.202696319	-0.9370988994
##	[134,]	1.094886902	-2.3788845393	0.489095262	0.3808736635
##	[135,]	-0.057259525	-0.2778718302	0.580166250	-0.2221097197

##	[136,]	0.320440072	0.4394790098	-0.040596862	-0.0262577807
##	[137,]	0.192003099	1.0539711701	1.872647018	-0.4900919493
##	[138,]	0.528068015	-0.2824469185	-0.173331571	-1.6195691303
##	[139,]	0.473513215	-1.8645994670	1.270367688	-0.4251940023
##	[140,]	0.349885085	-0.8245692012	0.343673350	1.3709706640
##	[141,]	1.448111005	-1.1808219809	-0.594218014	-0.3995013304
##	[142,]	-0.288671523	0.0026997239	0.397865058	-2.4434398999
##	[143,]	-0.246105267	0.3432637786	-1.080991196	0.5284088823
##	[144,]	-1.511882102	-0.5709072910	-0.905050264	0.8547517581
##	[145,]	-0.495024347	0.2663057248	2.261738454	-0.5175853386
##	[146,]	0.104615326	-1.5825268022	-0.499136124	-1.1108745387
##	[147,]	0.902919506	1.1402385821	-1.100332590	0.5236953613
##	[148,]	0.239724208	0.1412996868	0.019570376	-3.1052725543
##	[149,]	0.507267640	0.5956094686	0.300806272	-2.0655678560
##	[150,]	-0.875238957	0.0577505126	0.334230095	-2.6791101744
##	[151,]	0.091254051	0.9816095234	-0.719756102	-0.6955280393
##	[152,]	-0.020385215	-0.3839475177	-0.380244939	-0.3242604976
##	[153,]	0.605115391	0.2463217248	-0.779772307	-0.3239832486
##	[154,]	0.017637095	-0.3086784104	-0.962933886	-0.1809515676
##	[155,]	0.084949794	1.0749441236	-1.227754409	-1.9489677292
##	[156,]	1.124190998	-0.5531964049	0.934683915	-0.2986102820
##	[157,]	0.084291302	-1.0518190882	-1.732454183	-0.1377422951
##	[158,]	-0.218004750	-0.3139158975	-0.374230093	-0.9872457009
##	[159,]	0.216773350	-0.1077628726	0.984391235	1.1136756906
##	[160,]	1.266213403	0.9290952879	0.362040080	0.2304244623
##	[161,]	0.688871679	2.0009826742	-0.796570118	-1.5669267495
##	[162,]	-0.948181264	-1.2953412178	1.735296249	1.2144403293
##	[163,]	-0.338509175	-0.3639344539	-1.649911466	-1.0647207683
##	[164,]	-0.689386659	-1.7373127693	-0.673333842	-2.0153505106
##	[165,]	-0.106734805	-1.8011530712	-0.935619530	0.7072420380
##	[166,]	2.301107611	0.5456664303	-1.620094646	0.4540930331
##	[167,]	-0.111507116	-1.2064105109	0.102802032	-1.0290371313
##	[168,]	-1.669515372	-0.3400730524	-0.253774542	-1.2132111599
##	[169,]	0.373616914	1.0995561089	-2.086947549	0.1321591656
##	[170,]	1.003428014	-2.4434137998	-0.941362723	-0.4137772173
##	[171,]	1.549248381	0.1152974677	-0.265206001	-0.9991881493
##	[172,]	0.398993765	0.8456757281	-2.120392023	0.2430880690
##	[173,]	0.511265411	0.7265009096	-0.701709283	-1.6518143421
##	[174,]	-1.518518688	0.8985142930	0.359855815	-0.3480088817
##	[175,]	1.739601318	0.1271070793	-0.188079998	1.1093540497
##	[176,]	-0.563596715	-1.1037761358	0.582654209	0.2228654718
##	[177,]	-1.101827649	1.2342823346	-0.153226920	-0.9955859140
##	[178,]	-0.346406109	-1.1387273646	0.082859271	0.4723229243
##	[179,]	0.250186998	-1.8738538621	0.599724103	-1.5491720408
##	[180,]	0.701670212	-0.2050842524	0.489761034	-0.5124294265
##	[181,]	0.495761627	0.7695287487	-1.814204461	-0.9440013150
##	[182,]	0.216532289	-0.1769913856	-0.155700744	-1.0164705465
##	[183,]	-0.232082304	-0.2122827681	1.628712952	0.5824764102
##	[184,]	1.011596165	-0.0175592356	0.715039385	0.2669271550
##	[185,]	0.604909208	-2.8827496315	-1.007827770	-1.0616815185

##	[186,]	0.521911448	-0.6526106280	0.982910799	-0.0427199194
##	[187,]	0.173186116	-1.5279686721	-0.710228508	0.9771589323
##	[188,]	-1.224574281	-1.9640154117	-1.074310700	-1.4952692533
##	[189,]	0.208135369	0.1534287762	1.162104516	-1.7707432240
##	[190,]	-0.081332782	-0.7414601091	-1.299859784	-1.0661915752
##	[191,]	-0.970253820	0.4438014968	1.460537611	-0.9589919711
##	[192,]	-0.059073440	-1.8590266363	-0.374986744	-0.0149178511
##	[193,]	-0.079856740	-0.5129637695	-0.959905195	1.5622203986
##	[194,]	-0.226675490	-1.4639726313	0.736576634	-0.4991745498
##	[195,]	0.331626176	0.0043729971	-1.529573116	-0.9123057019
##	[196,]	-0.033081897	0.9517957276	-0.413076967	0.4540627947
##	[197,]	-0.049853835	0.4775824625	-0.249341214	0.7940008530
##	[198,]	-1.151062257	-0.6487624968	-0.883731172	1.3266280237
##	[199,]	-1.532826853	-0.4390694744	-0.554477080	-0.4344748675
##	[200,]	-0.909563172	0.2407524050	-0.200103390	0.3412390291
##	[201,]	-0.796302901	0.1583849048	-1.100718115	-1.4948168124
##	[202,]	1.563286510	-0.0130074491	-1.463226850	1.2229513528
##	[203,]	-1.393835043	0.4414221979	0.891626172	0.9505823475
##	[204,]	-0.890800968	0.3949514873	1.722680028	0.7519862855
##	[205,]	-0.646182693	-1.0101474342	-0.554691779	-2.2164678915
##	[206,]	1.461384587	-1.9903961499	1.714386872	-0.8538820469
##	[207,]	1.837364924	0.5217068267	-0.130426463	-2.0364900283
##	[208,]	0.291212411	0.3637342065	-0.201734438	0.6955594007
##	[209,]	-0.248640557	-0.5663101971	0.313477165	1.5761527894
##	[210,]	0.772127347	1.3289705351	-0.521011206	-1.3333303077
##	[211,]	2.062880502	1.8360738091	1.407969981	0.8468393486
##	[212,]	-0.646249146	0.3081885965	-1.145409698	2.1669143609
##	[213,]	2.098810148	0.9898836819	0.184109869	-1.2524157292
##	[214,]	0.660735520	1.5849700859	1.550082271	0.3821819323
##	[215,]	0.610836675	0.2726747583	1.180328168	-0.3686926279
##	[216,]	-2.222641556	-0.5682877360	-0.416573884	1.1598497355
##	[217,]	-0.934546630	-1.2660499721	1.108752086	-0.9772017342
##	[218,]	1.236197830	-0.5018419257	-0.528277818	0.2264412553
##	[219,]	0.010281016	1.3952763534	1.674032169	0.0171712762
##	[220,]	-0.979425586	1.8274246368	-1.266837869	0.8201025816
##	[221,]	-0.759908005	0.0012722011	1.888404474	0.4341473076
##	[222,]	0.834737338	1.5606581201	0.168312020	-0.8764347648
##	[223,]	-0.858965725	-1.4707304193	-0.618653106	-0.4806258873
##	[224,]	0.818052471	0.3582326769	1.044662816	0.6024648284
##	[225,]	-1.095974862	-0.4977637366	-1.407499118	-2.0625591777
##	[226,]	0.607742312	1.4773927575	-0.212911946	-1.2614813822
##	[227,]	-1.209597333	0.3184572674	-0.248906690	2.2357639808
##	[228,]	1.242808368	-0.2026828860	0.618139970	-1.6667266671
##	[229,]	0.748917631	-0.4916497019	1.869777376	-0.4140424930
##	[230,]	-0.849278089	0.9579812437	0.289364382	-1.0400252974
##	[231,]	0.759760879	0.2333014914	-0.642957835	1.3051256815
##	[232,]	0.694746987	0.3447447710	-0.208303006	2.2142782303
##	[233,]	0.073442221	0.6447974339	-1.640507680	0.0155870640
##	[234,]	-0.645918118	-0.7993404915	1.297387887	1.1673394392
##	[235,]	-1.915917151	0.6500579168	-0.113154733	0.5476074060

##	[236,]	1.014458771	-1.1186696504	-0.983528452	0.2466589622
##	[237,]	1.357325243	0.2558932618	0.037428299	0.3553797785
##	[238,]	-0.076210150	0.6353010734	-0.911832117	0.9963457238
##	[239,]	-0.848834602	-0.6362570038	-0.990992269	0.5507951436
##	[240,]	0.699778464	-0.7980618748	0.080397416	0.1885923338
##	[241,]	-0.574297742	1.8611462449	-0.889073678	-0.0350210374
##	[242,]	0.116021205	0.9452005194	-0.373952920	0.5520484436
##	[243,]	0.966100543	-1.4255523997	-0.990827249	0.4577660483
##	[244,]	0.450218084	-1.6217122153	0.928245285	-1.7983310169
##	[245,]	-0.821404180	-1.8414655333	-0.181831638	1.3984594181
##	[246,]	1.120661393	-0.9264803469	-0.570376639	0.7267299408
##	[247,]	-1.252578878	1.4161970840	-0.867796255	-0.6595217447
##	[248,]	0.594000789	-0.5872618158	1.510378353	1.3590052379
##	[249,]	1.109701783	-0.5647930127	-0.704295935	0.0343080145
##	[250,]	-0.229691815	-0.1685686736	2.206789672	0.3579290454
##	[251,]	-0.548653946	-0.6247978973	-1.242441514	1.4077341475
##	[252,]	-0.680354734	-0.3868462182	1.733137740	0.3930188129
##	[253,]	0.563344024	-0.3421459516	-0.281307315	1.3586213615
##	[254,]	-1.563620353	0.7508643742	0.924221752	-0.3665639083
##	[255,]	-1.169488630	-0.2425960330	-0.509115813	1.4071903181
##	[256,]	1.672597012	-0.9130410893	1.395388903	-0.8530476026
##	[257,]	-1.424793214	-0.2059458012	-1.323731432	1.4400518652
##	[258,]	-0.439569357	1.9616005227	-0.237278276	-0.6748286660
##	[259,]	-0.088290457	-0.3739930011	-0.520839814	-2.0060919824
##	[260,]	1.197246870	-0.6969075104	0.134568061	-0.6037554532
##	[261,]	0.356789774	-0.6225718540	0.291811018	-0.5788236875
##	[262,]	1.237896977	0.8257840837	-0.735480809	1.3429304271
##	[263,]	2.099191899	-1.1562277046	-0.125184553	-0.8344004546
##	[264,]	0.192687082	-0.3268381933	-0.453057062	0.8470402230
##	[265,]	-0.600039851	0.6211250575	1.892326155	0.2912840100
##	[266,]	-1.880719062	-1.1320605694	-0.396604901	0.2723949881
##	[267,]	0.184305199	0.5237928298	0.091639199	0.5453493557
##	[268,]	1.302276480	-0.4167238300	0.444502811	-0.5803708190
##	[269,]	-1.704961921	0.2179813845	2.281998224	0.7052062595
##	[270,]	0.719058290	-1.1361748201	1.199257812	-1.5716430294
##	[271,]	0.193408560	-1.0356922436	-1.071015994	1.0515682971
##	[272,]	-0.973632429	0.8816174832	-0.277406961	1.4652118876
##	[273,]	0.719064433	-1.8301234040	1.971366435	-0.9271173007
##	[274,]	0.981953876	0.8796438142	-0.607905074	0.5070859010
##	[275,]	1.146055908	0.0803624430	-0.660247535	0.0250941998
##	[276,]	1.929900305	0.0769829244	-0.995702486	0.2629131338
##	[277,]	-0.487568849	-0.5996261594	-1.117220330	0.5558940250
##	[278,]	-0.469082885	0.8947460005	-1.766784917	-0.7972414731
##	[279,]	-0.037629074	1.0702223919	1.877000761	0.0907841657
##	[280,]	-1.139432366	-1.5161056808	-1.083708102	0.4340028497
##	[281,]	0.614610324	-0.7187418543	0.266205545	0.9734915026
##	[282,]	-0.515196870	-0.0330634920	1.897329268	-0.8502126554
##	[283,]	-1.300893452	-1.0320246488	-1.011948547	0.3809954075
##	[284,]	-0.726269386	1.7616112249	0.364799575	-0.7856253241
##	[285,]	-1.712530105	1.1243220759	-0.680187001	-0.2214761652

##	[286,]	0.168096215	-1.3927989281	1.242676648	0.2987561537
##	[287,]	-0.041600663	0.0171287966	-0.214485776	1.5859923185
##	[288,]	0.103402150	-0.4116315597	-0.034239706	0.6759067696
##	[289,]	-0.856640263	0.9705910086	0.139002329	-0.4466137217
##	[290,]	-0.041579040	1.2598380971	-0.833714828	0.1912209391
##	[291,]	1.467284318	-1.4209076839	1.549755270	0.0704854490
##	[292,]	0.224494543	-0.1147023747	-1.101395618	-0.2774844702
##	[293,]	0.953692119	-0.8726802001	-1.304366155	1.2967233195
##	[294,]	0.141065357	-0.4421076647	0.069126810	-1.6621475668
##	[295,]	0.889826180	-0.6797719847	-1.124056076	0.3511870161
##	[296,]	-0.191469021	-0.4573325453	0.038203532	0.9617080701
##	[297,]	-1.139929726	1.8559038330	-0.815778613	-0.8901599027
##	[298,]	-0.241382597	-1.0093210102	1.586489633	-1.5533312103
##	[299,]	0.550586894	-1.3642202569	-0.308702734	0.6752934608
##	[300,]	-0.452395677	-0.4169329307	-0.714061275	0.5985804590
##	[301,]	1.498861537	-1.1876223599	0.283907519	-1.6813818043
##	[302,]	0.036497410	-0.9460802050	0.397303226	-2.0416188030
##	[303,]	0.887145540	-0.08744448765	-1.056305487	0.8747506246
##	[304,]	-0.258079692	0.7248952381	0.087737276	0.8825771006
##	[305,]	0.269431402	-1.1699417421	-1.094576828	-0.0076345300
##	[306,]	1.441427766	0.1549281689	-0.739335007	0.1568233480
##	[307,]	-0.189394669	2.0321186733	-0.084904742	1.1245723953
##	[308,]	0.198739873	-0.3329314216	1.619914424	-2.8458192725
##	[309,]	-0.220413519	1.2515859956	0.618648020	1.0050532750
##	[310,]	-0.357367373	-0.5809215019	1.123335887	0.4866834661
##	[311,]	-2.292206086	0.2269267116	2.062109665	0.0904870221
##	[312,]	1.036646893	0.7662704719	-0.150306180	0.8129858106
##	[313,]	-2.484689925	-0.5920910741	-0.314099400	-1.0686435013
##	[314,]	-0.010259289	-0.3730871185	-0.435334341	0.5249375280
##	[315,]	1.452646785	2.1536917609	0.805631363	-0.4523316496
##	[316,]	-0.754267248	-0.0398649689	-1.362402461	0.7154631638
##	[317,]	-1.607136568	0.1102442467	1.739005831	1.7807052811
##	[318,]	-1.786792366	0.7062514278	0.501978083	-0.2650000788
##	[319,]	0.280781665	-0.2724310882	2.052359960	1.4789142248
##	[320,]	1.724487919	-0.4120296564	-1.225269146	0.5958622962
##	[321,]	-0.014807550	1.0714581322	-0.041004390	0.3426511428
##	[322,]	0.341356452	-0.5815071761	1.242707702	1.1241886702
##	[323,]	0.374925312	-0.0470285032	-1.101840898	0.8066341139
##	[324,]	-1.076161378	0.2091158104	2.305405776	-0.4132197459
##	[325,]	-0.424059185	-0.5277331169	0.354352562	0.4313965931
##	[326,]	-0.024787361	1.6098678875	2.150980619	0.6356186815
##	[327,]	-0.609743877	-0.4679424459	-1.060532948	0.2226261402
##	[328,]	0.023721571	0.1308358666	-1.034108540	0.3041205843
##	[329,]	0.097095666	1.4835374701	-2.054636960	-0.4630317111
##	[330,]	-1.528711341	0.3527497898	0.052410662	1.5354711266
##	[331,]	-0.626915157	-0.9113548660	-0.555882869	0.2957346549
##	[332,]	0.268107451	0.7181239668	2.019440728	-0.0142863242
##	[333,]	0.433461307	-0.6198575046	2.350758399	-0.9977424661
##	[334,]	0.710497128	0.2656653320	0.608784936	0.2087514491
##	[335,]	0.410990417	-0.2413398549	-1.256387315	0.3057853391

##	[336,]	-0.005932612	1.0012023808	0.641273580	-0.1386345976
##	[337,]	-1.570799475	-0.1737427194	1.579909416	-2.0860968217
##	[338,]	-0.730021578	1.7449103778	-0.183633738	-0.5157447668
##	[339,]	0.693596091	-0.2620459511	-0.507300767	1.0035420608
##	[340,]	0.317203055	-0.1747276291	-1.081916339	0.5121842697
##	[341,]	1.008209656	-1.6601903678	-0.862810029	-1.9302724435
##	[342,]	-0.995298390	1.0660110094	-0.239704051	1.4722325462
##	[343,]	-0.569614090	0.0286721776	-0.034156481	0.0936456698
##	[344,]	-0.175523202	-1.1649022716	1.262835228	0.9676853518
##	[345,]	-1.216717836	-0.7148309110	-1.352311657	0.8321650545
##	[346,]	-0.160768731	-0.2572097927	-0.984989336	0.6761628666
##	[347,]	-1.293421349	0.0158709706	-0.736640281	0.2806835684
##	[348,]	-1.611436035	0.7661386143	-1.028299979	-0.4724291742
##	[349,]	-0.252492103	-0.0814653888	2.209302791	0.2779261240
##	[350,]	-1.069312885	0.5059833270	-0.475451745	1.5919622610
##	[351,]	-2.493387985	0.3873055318	-0.484389470	-1.2714548436
##	[352,]	0.081317283	1.0453793828	2.443642751	0.9416022495
##	[353,]	-2.190991829	0.1586177893	2.262511490	-0.8865772154
##	[354,]	1.819975271	-0.7447176592	-1.001478941	0.0248909985
##	[355,]	2.144731173	0.2021388141	0.684654354	-0.0028835538
##	[356,]	-0.240610909	1.3572148835	-1.523888500	-0.2604960704
##	[357,]	-0.671164100	1.3752376492	-0.489321163	-1.7650357903
##	[358,]	-1.470085353	-0.2287649127	1.072102236	-0.3026980137
##	[359,]	-1.156700426	-0.6781252853	-0.249752152	-0.3033155003
##	[360,]	-0.576783114	-1.5069914360	-0.442713404	1.1831250118
##	[361,]	-0.968584529	0.7143461121	-0.721265379	0.5853490464
##	[362,]	1.411506184	-0.0724136796	0.427628854	0.2025836016
##	[363,]	0.146683684	-0.2268276864	-0.436698583	0.0027667592
##	[364,]	0.420073912	-0.9256463883	-0.567916276	-0.4362571791
##	[365,]	-1.101993970	0.5163603598	-1.397410549	0.2521273246
##	[366,]	1.457541907	0.1709277550	-0.035141694	-0.3339438568
##	[367,]	-1.719827128	0.8411469609	-0.939186350	-1.0986562533
##	[368,]	-0.953703068	0.9935309271	-0.762369089	0.0439217649
##	[369,]	-0.358848426	0.6066760683	0.361153530	1.8256366164
##	[370,]	-0.687576306	1.3894812314	0.620589852	-0.2426008302
##	[371,]	-0.017788216	-0.3977581327	1.671074211	1.1351733359
##	[372,]	1.005605375	-0.4252386890	2.336893715	-0.7392981109
##	[373,]	-0.549685283	0.2196828621	-1.390432284	-1.9943856099
##	[374,]	-1.153727279	0.5522210478	-1.080695643	0.0261812346
##	[375,]	-1.799482568	-0.5062745968	2.424829405	1.4187461110
##	[376,]	-1.554832653	-0.8448381867	1.396091600	-0.5581208897
##	[377,]	-2.141469684	-1.4547614004	1.409641518	1.0201090222
##	[378,]	1.923642571	1.4198895286	1.213519532	-1.0686245504
##	[379,]	-0.390425335	-0.7714165920	-0.023910686	0.8211311018
##	[380,]	1.061018104	1.3856671693	-0.197127768	-0.6145689464
##	[381,]	-0.965318705	-0.1574082243	1.689468014	1.2091739720
##	[382,]	0.495605331	-1.0874762961	-1.304077152	0.2111765187
##	[383,]	-1.237454448	0.6357201908	0.793927031	2.3284885685
##	[384,]	-0.872948334	0.5370659727	-0.904361065	-1.6648704612
##	[385,]	0.434210391	-1.5250275112	0.265299519	-0.3326103586

##	[386,]	-0.258450269	1.2387334374	-0.018483103	-0.3950653100
##	[387,]	0.406546167	0.2305718195	0.321254988	-1.2349817376
##	[388,]	0.459167800	0.7009995145	0.721801048	1.4750016347
##	[389,]	1.646347989	-0.2229473849	-0.063506272	-0.7778368770
##	[390,]	0.434825478	-0.6997554585	0.695005193	0.8903249210
##	[391,]	0.738362762	0.2206917741	-0.290770195	-0.6023035528
##	[392,]	-0.178790949	-1.6782325817	-0.281265016	0.4263618893
##	[393,]	-0.809351427	-0.8997533040	-0.296700035	0.3128044780
##	[394,]	-1.532243474	-0.2546792313	-0.823716168	-1.0008359780
##	[395,]	-0.782271392	0.4084812121	0.445979834	-0.0972484362
##	[396,]	-1.315830881	1.4060337062	-0.531076787	-0.8488336483
##	[397,]	-0.409957706	-1.2220998735	-0.309912792	-1.4217829005
##	[398,]	0.065586385	-0.3579533043	-0.923804660	0.1949964612
##	[399,]	1.703175031	1.8497462786	-0.585390364	0.5823320349
##	[400,]	1.912622945	-0.2735831171	0.764498031	-0.7483507937
##	[401,]	0.144529126	-0.2433673022	1.199630627	-2.8874736843
##	[402,]	-0.559345826	-2.1227366391	-0.970936246	-0.8002930165
##	[403,]	-1.665921641	0.9492005248	-0.599887699	-0.0242568263
##	[404,]	-1.031351369	-0.9559735683	-0.278143568	-0.6213649904
##	[405,]	-0.051332354	-0.2555978524	0.865107594	0.1350921914
##	[406,]	1.838112912	-0.2934489550	-0.801657173	-0.3198479585
##	[407,]	0.117007479	-0.7031760187	-0.836413257	-0.8186350893
##	[408,]	1.679556088	0.0044207687	-0.392205773	0.7620115561
##	[409,]	0.687582991	-1.8902800698	-0.462572376	-0.7036579605
##	[410,]	-0.148530404	0.6375248117	-0.234606152	1.2137773216
##	[411,]	-2.246809839	1.8444862844	0.032449978	-0.3395969444
##	[412,]	1.265400493	0.2237104756	-1.380418830	0.9362227158
##	[413,]	-0.176712279	-2.2385589807	-0.886910118	0.0674108684
##	[414,]	-1.145576720	0.5601545559	0.147382889	-0.0472687368
##	[415,]	1.456400267	-0.7798418770	-1.488234058	-1.1133937083
##	[416,]	-0.402074828	-1.0297071303	1.070795103	1.7924205037
##	[417,]	-0.109289899	-0.1343023327	0.154643977	-0.0782233735
##	[418,]	-0.075255983	0.8539864315	0.183690154	-1.5245642129
##	[419,]	0.221728931	-1.5958268705	-0.676967100	0.4791230320
##	[420,]	0.492220595	-1.4878703656	0.786153243	-1.5491096976
##	[421,]	0.777415054	-0.6800595913	-1.575752306	-0.3255516464
##	[422,]	1.465088893	0.8117690103	0.503586132	0.4398154740
##	[423,]	-0.264401683	1.3305037783	-0.003386672	2.6971451410
##	[424,]	0.440323733	-0.2125177136	1.565344352	0.3775222841
##	[425,]	-1.524518748	-0.2622428239	-0.750436310	0.2627197255
##	[426,]	0.783900774	0.1948531926	0.285573466	2.2390740423
##	[427,]	-1.249358435	-2.6065539671	-0.693898880	-0.8245806799
##	[428,]	1.190054668	-2.3218220415	-0.928411155	-1.1655978103
##	[429,]	0.780895679	-0.5537997056	-0.541735538	1.5837798163
##	[430,]	0.410947616	-0.4625967797	-0.674803040	0.8997689995
##	[431,]	0.691447599	-0.6315061049	0.749418008	0.3836139457
##	[432,]	-0.823402384	1.4356400930	0.698194824	-1.3074505199
##	[433,]	0.743277884	-0.0521832632	-0.489397978	-1.5930027932
##	[434,]	-0.257563358	0.1386829964	-1.835241397	-1.4115731523
##	[435,]	-0.501914820	0.8921733398	2.153392741	0.6463960915

##	[436,]	-1.619542536	-1.3214497199	1.713579656	0.8827842532
##	[437,]	-1.299072337	-0.2212157887	1.991456908	-0.3885385356
##	[438,]	-0.578604715	-0.5699065307	-1.268969433	-0.6392710664
##	[439,]	0.046357335	-1.0996657260	-0.513959404	-0.5222556017
##	[440,]	-0.866070169	0.6749506928	-1.562617318	0.4481050384
##	[441,]	-0.100284657	-0.0009862945	-0.746577459	1.1897533641
##	[442,]	-0.653439342	-1.1061726209	2.130626686	0.2425180635
##	[443,]	0.116487377	-0.0955441411	0.496046845	-0.0171086466
##	[444,]	1.303958242	-0.6393689136	-1.397705916	-0.7732773535
##	[445,]	0.550986642	0.0498628864	0.847383415	-0.9566625427
##	[446,]	-0.189863901	0.2549911376	-1.037015935	2.5611559856
##	[447,]	-1.171591041	0.1543992964	-1.513561195	-0.5261126579
##	[448,]	2.977741903	-1.0458175915	0.496957799	-2.2921820118
##	[449,]	0.212592985	-0.5500612853	-1.450704263	0.7400988719
##	[450,]	-0.515199353	-1.2393981139	1.968232514	-0.0315513744
##	[451,]	-1.785567331	-0.0214555754	1.646441937	0.9127330041
##	[452,]	-0.929547116	-0.2668970626	1.312610795	-0.1133194421
##	[453,]	0.914024757	1.0897556804	0.252867164	1.9926031847
##	[454,]	-0.492044666	-1.4567858818	1.697901882	0.0622942371
##	[455,]	0.729175330	0.3620699724	-1.195130591	1.6218074391
##	[456,]	0.060248542	-0.6888888050	0.502207771	1.2610897902
##	[457,]	-0.333697075	2.5035886097	0.497095582	-1.5804762402
##	[458,]	-0.689864338	1.5830139427	-0.303600011	-1.7854918211
##	[459,]	2.154152180	-0.0932480275	0.545356300	0.3399770157
##	[460,]	0.555239769	-1.3734833352	0.859820914	0.0299960858
##	[461,]	-0.305555156	1.2843596683	-1.632358087	-0.3824655113
##	[462,]	0.883901154	0.6741980058	-0.299087508	0.1707604009
##	[463,]	-0.380692927	-0.5186424420	0.689677569	-1.4084888108
##	[464,]	-0.138090228	-1.5989628388	0.464056235	0.2831027510
##	[465,]	-0.400702478	-0.3127926919	-1.083905688	-0.1679684498
##	[466,]	0.532558481	-0.2517279507	-0.961165937	-0.6939765080
##	[467,]	-1.481217881	1.0731744627	-1.291692295	1.0766709440
##	[468,]	-1.112921709	-1.2754470935	-1.776297080	-0.5823253311
##	[469,]	-0.321214693	0.5182791195	-1.035988101	-0.3859481526
##	[470,]	-0.522750109	0.9845625868	-0.607548987	-0.5527194693
##	[471,]	-0.125994278	-0.2201909424	-0.656186989	-0.0663083446
##	[472,]	-1.453119732	1.3433420927	0.821270623	-1.1180149947
##	[473,]	-1.756167650	-1.0209933568	0.527472026	-2.3861653405
##	[474,]	0.112317362	-1.6771937176	1.399487237	-1.8051704780
##	[475,]	0.039618636	1.4427132110	2.220626141	-1.3942203449
##	[476,]	0.693459244	-0.8407878853	-0.143370698	-0.0966195363
##	[477,]	-0.199411942	-1.7058876937	1.501546559	0.0430247973
##	[478,]	-0.529746532	-1.1399294427	0.736123128	-1.4527417447
##	[479,]	1.666444896	-0.6908690702	-0.958083149	0.2725033043
##	[480,]	-0.301177968	-0.6710032425	1.410009125	-0.0028827345
##	[481,]	0.371352228	0.4149822239	1.691925825	0.9978143640
##	[482,]	1.630650886	-0.9783618580	0.145266375	-2.2397923861
##	[483,]	-0.858576115	-0.0378536123	-0.442990937	-1.3281544747
##	[484,]	-0.853167554	0.0417194673	1.804411576	-0.3713441247
##	[485,]	-0.334746816	0.0469841827	-1.356637699	0.3424694908

##	[486,]	-1.094076179	-0.7790140276	-0.697319309	-0.5882640290
##	[487,]	1.509429484	-0.4195396663	-0.938849484	0.4583233109
##	[488,]	-0.498172750	1.8653860393	1.373359817	1.0846210344
##	[489,]	1.245653034	1.1584267831	-0.492678348	-1.3716239034
##	[490,]	0.873098138	0.3201097552	-0.773270154	1.0478209492
##	[491,]	-0.813096524	-0.5507032250	-1.168513032	1.3837512847
##	[492,]	-0.371196345	-0.9427554829	0.970669235	0.1187957769
##	[493,]	1.907397882	-1.1673107566	0.997703020	0.1039987419
##	[494,]	-1.928974512	0.9781320184	-0.405417734	0.0162684055
##	[495,]	0.236402137	0.0537031687	0.037590726	0.0739278272
##	[496,]	-0.109866952	-0.3936722964	0.588998546	1.5378468590
##	[497,]	-0.245332389	-0.6788530430	0.210028685	-0.8500015942
##	[498,]	1.091489913	-1.1482926165	-0.932931578	-0.2878724277
##	[499,]	0.718110694	-1.0299001239	-0.252710303	0.3872713641
##	[500,]	-0.954478624	0.1254264422	-0.594418957	-1.6908601868
##	[501,]	0.751804590	-0.2011189401	1.841675785	-0.2872216275
##	[502,]	0.318181422	0.0147206052	-0.627866630	0.0023511272
##	[503,]	-1.170309849	1.1238303966	-1.543586941	-0.7466042042
##	[504,]	0.185465671	0.1900644115	1.354338786	-2.2497671955
##	[505,]	-0.374191095	1.5489164857	1.313178797	1.7125506665
##	[506,]	-1.431249303	0.5869704233	0.260476081	-0.8142524730
##	[507,]	-1.804220142	1.1307510450	-0.205675527	-0.4832172797
##	[508,]	-0.165385231	-0.3596492240	1.876975104	-0.1622640800
##	[509,]	0.668211592	-0.1302308088	-1.897232455	-0.2618778882
##	[510,]	-0.176218527	0.7573445388	-0.424431516	1.4801987775
##	[511,]	0.143359255	1.7188327486	0.474868296	0.1119551046
##	[512,]	-0.325982095	1.4746326003	0.872433836	-0.8923305008
##	[513,]	1.855853482	-0.3699133916	-1.360486023	0.4376786211
##	[514,]	-1.097687691	1.5560879757	-0.219942230	-0.2587091462
##	[515,]	-0.541832037	-1.3164217456	-1.021588260	-0.3859886330
##	[516,]	0.088189320	0.1085949165	-0.886877317	0.3391057005
##	[517,]	-0.342246885	1.3589796022	0.302322578	1.7160381134
##	[518,]	1.725070514	1.1328924740	1.007043964	0.8678548366
##	[519,]	-0.389822991	-1.3970024591	1.859232326	0.8342045656
##	[520,]	-0.738666312	0.2514795558	-0.238744429	0.0187938889
##	[521,]	0.216872282	0.4438417797	0.029938543	1.0738787521
##	[522,]	-0.167262776	-0.9741715546	1.080790053	0.9521940001
##	[523,]	0.163961367	0.0497344064	-0.790806787	1.0349620964
##	[524,]	-1.005580860	1.1321033684	-0.243928157	-0.9040897248
##	[525,]	-0.534385258	-0.5466616697	1.731639590	0.9624933896
##	[526,]	0.673610537	0.4415062642	0.704571404	0.3869210269
##	[527,]	-0.375653535	1.8801330389	2.165729973	-1.1200564481
##	[528,]	1.002778370	1.0976025208	0.061647693	-0.7876757480
##	[529,]	-1.219814852	1.8299545509	-0.240783599	-1.9402687967
##	[530,]	-0.731173979	-0.4096026311	-1.468825617	-0.4721803904
##	[531,]	0.920356020	-0.1390236113	0.358619953	-1.3833133912
##	[532,]	0.774281043	1.6427443686	-0.971014791	-1.3966334948
##	[533,]	0.901545619	-0.3062279239	-1.252452543	1.4458415517
##	[534,]	0.263911248	0.8916072407	-0.228709316	-0.2413184842
##	[535,]	-0.572417653	-1.5480302543	-0.429408365	-0.0879293146

##	[536,]	0.670536107	1.3921814824	0.151455090	0.9450070266
##	[537,]	-0.576709936	0.7887560614	-1.340883348	2.0294316468
##	[538,]	1.022426179	1.7369885067	-0.472252144	-0.8011940039
##	[539,]	-1.160072697	-0.5575700804	1.410997974	0.3915639243
##	[540,]	1.233899909	1.1024598704	0.544131136	-1.0959411306
##	[541,]	0.475298724	1.1374095331	2.235427146	-0.4224024643
##	[542,]	-1.545807900	-0.9904426824	1.166320717	0.5197418865
##	[543,]	0.910970474	1.3004765214	-0.891633192	0.6512889644
##	[544,]	-0.593378120	0.3995042044	-0.716823349	-1.0268399317
##	[545,]	-1.197173978	-1.0483707947	2.194470785	0.2784029092
##	[546,]	-1.264659912	0.2681162829	-0.401632455	0.6007412161
##	[547,]	1.116940690	2.0603972581	0.396325904	-0.5577010352
##	[548,]	1.790971572	-0.5399079189	-0.737085779	-0.4498770405
##	[549,]	-1.218285349	-1.6771704098	0.127884599	0.0466921688
##	[550,]	-0.688351187	-1.4923386148	-0.736358418	-0.0992654576
##	[551,]	1.117634040	-0.6053019599	-0.228681854	0.3644006841
##	[552,]	-0.378526599	-1.1579428048	0.099389035	0.0293292929
##	[553,]	2.518681691	0.1810114034	-0.174230601	1.7140087610
##	[554,]	0.241138088	0.3353675927	-0.376506834	0.9650705823
##	[555,]	0.453049835	1.4304201656	0.344032544	-0.4131294315
##	[556,]	-0.674707640	-1.0813795245	-1.022117005	1.6795677800
##	[557,]	-1.425406531	-0.9736347753	-1.065128358	1.1935147415
##	[558,]	0.594555126	-0.2832361274	-0.818710324	0.8150138810
##	[559,]	0.770573158	-1.3285008236	-0.119127675	0.1613331477
##	[560,]	-1.542156870	-0.9163401296	-1.030434071	0.6676849198
##	[561,]	1.482641608	1.1135083213	1.565794693	0.6856793259
##	[562,]	0.912177636	0.2557225781	-0.117034047	-0.6386221389
##	[563,]	-1.108697452	1.5582127963	-0.155343809	0.8840211981
##	[564,]	-1.049737540	1.2118694156	0.239602619	1.4522111716
##	[565,]	-1.228084905	0.9887983583	-1.386477300	-0.4011869165
##	[566,]	-0.134545340	0.8207309128	0.566095785	2.4942868332
##	[567,]	0.731207991	-1.4660028257	-0.560327475	-0.3907162911
##	[568,]	-1.786813526	-0.2897187529	0.640251946	-0.2455085694
##	[569,]	-1.077086455	-0.0084053941	-0.696997898	1.7573325421
##	[570,]	0.642097073	0.7617953528	0.340485321	0.4571533854
##	[571,]	-1.031712715	0.9115503288	-0.625320642	1.0873305468
##	[572,]	0.027908659	1.3740196961	0.465020524	-0.0267851115
##	[573,]	-0.770914685	0.5268659643	2.125921746	1.2667906994
##	[574,]	-1.500443202	0.7131734285	0.006618884	0.7253468195
##	[575,]	-1.406448482	0.5890166114	1.626745145	1.3560130329
##	[576,]	1.074519123	0.0329400289	1.919015304	0.1310715172
##	[577,]	-0.672509022	2.0056436000	0.183588534	0.1946044255
##	[578,]	-0.245655767	0.2007803283	-0.012734003	0.4019444344
##	[579,]	-0.224743798	-0.7656293893	1.652936592	0.8419183061
##	[580,]	-1.211626982	1.1526991628	-0.212635763	-1.0220828888
##	[581,]	-1.034028736	-0.0990006239	-1.110350949	-1.2148555952
##	[582,]	-0.883525140	0.3282643581	-0.339791923	1.2420142322
##	[583,]	0.485480208	-0.3389679913	-0.797316238	-0.8771758883
##	[584,]	1.078162984	0.9153152651	-1.482783023	-1.3058220677
##	[585,]	-1.651502530	-1.2837831741	-0.278661333	-0.9945892276

##	[586,]	-1.629722884	-0.8458921907	-0.949590367	0.0270923155
##	[587,]	1.266832374	0.2847418491	-0.873867704	-0.1737441260
##	[588,]	-1.357221966	-0.2000918684	0.501371911	0.7218158321
##	[589,]	0.102803891	-0.3280627219	-0.169580862	1.9611320593
##	[590,]	1.431120968	0.5892229190	-0.380675730	0.9693929168
##	[591,]	0.626981745	0.9873966201	0.964300508	-1.1225160470
##	[592,]	1.792656029	0.3463371373	-0.660035358	0.5052875016
##	[593,]	0.727714303	0.7271995882	-0.438754800	1.4800606477
##	[594,]	-0.717069639	-1.4908631909	2.381634015	0.0512202714
##	[595,]	0.742942830	-0.8912105502	-0.474077836	-0.8180723394
##	[596,]	-0.208875134	-1.7945942612	0.665285345	-0.8841814314
##	[597,]	-1.353571792	0.2833166396	-0.120802387	-1.0331457440
##	[598,]	-1.299348082	0.9903110197	0.065230807	0.0822201274
##	[599,]	-1.331123711	0.4039216296	0.185445082	0.0506881709
##	[600,]	-0.414732288	1.1317599442	-0.581679460	0.0994948901
##	[601,]	-0.313089244	-0.6702812623	0.041405016	1.4538015184
##	[602,]	0.696285793	-1.8095672483	0.629787861	0.4048232590
##	[603,]	-0.664960798	0.5849853451	-0.333679218	-0.0922546040
##	[604,]	-0.530583380	0.6246936691	-0.864162076	1.2951701690
##	[605,]	0.393033722	0.2427576747	-0.143276193	1.5248592332
##	[606,]	-0.773483140	0.4931802457	0.919365940	-0.3231844134
##	[607,]	-1.550219870	-0.5721616995	-0.008784268	-1.2361901112
##	[608,]	-0.425929638	-1.2560451875	1.410679344	-0.5049604728
##	[609,]	0.537334661	0.5208371991	0.546749614	-0.8423897492
##	[610,]	0.498023174	0.8974957136	-0.755496892	-1.0740851448
##	[611,]	-1.262739352	-0.1678791193	1.028433678	-0.9615857844
##	[612,]	-0.506180423	0.5279296458	-0.363323955	1.2264462356
##	[613,]	-0.466164267	0.0740621626	-0.745482803	-1.4161796042
##	[614,]	-0.062652463	-0.5850359124	-0.716059118	0.7107113083
##	[615,]	0.352763658	-0.4661987357	0.322589126	1.4242977078
##	[616,]	0.630817178	-1.2934951186	0.299851670	-1.5349327764
##	[617,]	-1.776494997	1.4231792525	1.866290876	-1.3771903714
##	[618,]	1.862778139	0.3168825534	-2.044272590	0.2024695139
##	[619,]	0.783085708	1.0408955491	-1.229743284	0.3007597540
##	[620,]	-0.975228093	1.0935991652	-0.212727297	-2.3929896532
##	[621,]	0.395720199	-0.5237252721	-1.316548086	-0.8197941803
##	[622,]	-1.770814879	-2.8695094636	-0.779740957	-1.2461052930
##	[623,]	0.364824670	0.4074003624	-1.431914603	1.0084302678
##	[624,]	-1.818826667	-0.4104093949	-0.180294406	-0.0207928292
##	[625,]	0.101111725	-0.9211709468	0.046925033	1.7491603015
##	[626,]	-0.144427102	0.7214556049	-0.578213806	0.8669059482
##	[627,]	-0.630544162	0.4278626091	0.350839260	0.8557093702
##	[628,]	-0.512994850	-0.1855098459	0.358881316	0.1943638402
##	[629,]	-1.424391456	1.0821048810	0.409834172	-1.3214296216
##	[630,]	0.491007264	-0.4739891640	-1.154115956	1.9120547616
##	[631,]	-0.371155336	1.0840335289	-0.611155100	0.8263665790
##	[632,]	2.132957294	-0.0577048796	0.609805408	-0.0743387945
##	[633,]	-1.213695030	0.3574885950	0.769194405	-0.7561102837
##	[634,]	-1.499211623	0.3587654980	-0.410043538	-0.1139499815
##	[635,]	0.689637532	-0.8872405733	0.447918736	1.0314217497

##	[636,]	0.262805205	-1.1564586261	0.995993417	-1.1521061040
##	[637,]	-0.289674258	1.1233106910	0.301865815	1.2773637891
##	[638,]	0.014863848	1.3083382488	1.340446839	-0.4698518961
##	[639,]	-0.413960667	-0.6589949790	0.973034322	0.5817574690
##	[640,]	-0.995840420	-0.4460006835	-0.406714463	-2.0778438461
##	[641,]	0.195568870	0.9716455001	0.367638376	1.3484679803
##	[642,]	-2.021053663	-0.5732228759	-0.315411927	-0.8175973615
##	[643,]	-0.535763589	-0.0376944225	2.985679913	-0.1649569448
##	[644,]	1.418839368	0.0501147909	-0.144247484	0.5756967746
##	[645,]	1.044009948	-0.2551107556	0.937569376	0.5375487123
##	[646,]	0.319561639	1.8313513311	0.843646913	0.5357798806
##	[647,]	-1.807590277	-0.4317804771	-1.205050000	-0.4750512852
##	[648,]	-0.984707161	-0.6146120423	0.500836132	1.5100316974
##	[649,]	-0.225577113	-0.7702434451	1.437121595	0.4091569637
##	[650,]	0.529472865	-0.1513145616	0.165085750	1.3932981311
##	[651,]	-1.566557203	0.6551432443	0.357127620	-0.2336101931
##	[652,]	0.313013189	0.8661347027	-2.166785713	-0.1677579812
##	[653,]	-1.030773141	-0.1103372529	-1.231374046	-2.5081728050
##	[654,]	0.441404547	-0.4836819133	-0.521476107	0.3560941837
##	[655,]	-0.649211957	0.9084150058	-0.032271911	-0.2298143071
##	[656,]	-0.272258786	-1.4539435715	0.012133243	-0.7092718913
##	[657,]	2.258850160	1.9289263917	1.850805345	0.1417493027
##	[658,]	-0.440504703	-0.7296155870	-0.424685444	0.6080484539
##	[659,]	-0.622883984	2.1704094452	-0.640358441	-0.3780801536
##	[660,]	0.380726980	-0.3655681059	-0.821834838	-0.6399953334
##	[661,]	0.875900381	-1.2255016009	-0.698594729	0.3378113524
##	[662,]	-0.089905076	-0.8814760216	-0.319780756	0.3828870437
##	[663,]	-0.495938464	-0.4332404493	-0.112989169	-0.0189170557
##	[664,]	0.459686749	-0.5798233407	0.529615947	-0.8145547368
##	[665,]	0.010432227	-0.0441890784	0.954099364	1.0470133001
##	[666,]	0.468494911	0.2463725471	-0.519797274	0.4781429245
##	[667,]	0.850989983	-0.8284467193	-0.761494125	-0.2247468462
##	[668,]	0.219228795	0.4117334252	-0.093052037	-0.5350559079
##	[669,]	1.263879172	-0.8308205224	1.540725572	-2.7286585841
##	[670,]	-0.161051242	0.1689966457	0.256917163	0.1555881014
##	[671,]	0.057525850	-0.2627273308	-0.313218376	-0.0139377019
##	[672,]	0.535173522	0.6784420243	0.618817703	0.8477960052
##	[673,]	-0.287124208	-0.6842557119	-0.201798463	0.9430813318
##	[674,]	-0.165749637	-1.3612831928	-0.289472435	0.5150834339
##	[675,]	-0.552168776	1.4380312042	-0.803629884	-0.7336511996
##	[676,]	0.178216809	-0.9016640983	0.026705815	0.9563217002
##	[677,]	-0.702996329	-0.1464642059	-0.876718202	1.4158739998
##	[678,]	-0.180461945	0.4611459973	-0.513908413	0.8450610564
##	[679,]	0.145705799	0.6023071755	0.761752443	-0.1863643555
##	[680,]	1.307750991	-0.6881749367	0.021558735	0.2048681627
##	[681,]	-0.066084549	1.0644073189	1.610123019	0.8379656150
##	[682,]	1.010615473	0.8218903065	1.587661298	-0.1850435147
##	[683,]	-0.379461432	0.2184145116	-0.291520616	-0.8288161309
##	[684,]	0.184341332	-0.2416120417	1.567634379	0.7726530539
##	[685,]	-0.549088743	0.2213092820	0.635700382	1.3239055677

##	[686,]	0.944281227	-0.1096475454	0.418644081	0.7058917446
##	[687,]	0.370166258	-0.2385169078	0.436551516	-0.6750959975
##	[688,]	0.288320351	1.7013426801	-0.730586053	0.4058106734
##	[689,]	0.012925808	-1.3693228272	0.527786763	-0.4271902616
##	[690,]	0.220522698	0.4194959315	-0.476115723	0.5005153777
##	[691,]	0.875634839	0.7909618655	-0.191748374	-0.4243372582
##	[692,]	-0.893065673	-0.3565887516	-0.736217821	0.9234798167
##	[693,]	2.045684529	0.5505866772	-0.321987700	-0.9417914511
##	[694,]	-0.799027362	0.4806843635	-1.032400389	1.2444449224
##	[695,]	1.209150926	1.8847654718	-0.810924825	-1.4063244893
##	[696,]	0.362732368	-0.5420146665	-0.441695252	1.0679205845
##	[697,]	0.512571248	-0.9728359726	-0.565128198	-0.0141131386
##	[698,]	0.388825670	-0.9292309546	-1.676239485	-0.7147517309
##	[699,]	0.032492857	-0.0973442099	0.605252191	1.9222892906
##	[700,]	-0.532298202	-0.3640189780	0.141908854	1.6010294206
##	[701,]	-1.383257496	-1.3809791279	-0.564203720	-0.1822005438
##	[702,]	-0.104525261	0.0125921652	1.468102107	-0.8848737427
##	[703,]	1.305242385	1.1612452395	-0.235511025	-2.6877525741
##	[704,]	-0.766546020	1.2344426746	0.450183857	0.6807848028
##	[705,]	-0.337805885	0.1721557874	0.114921748	1.5816314282
##	[706,]	1.534872999	1.8191258256	0.989948520	0.6478309461
##	[707,]	-0.291118846	0.8094528741	-1.267298638	0.5662832921
##	[708,]	0.235857880	-0.7187235212	1.542943377	-0.5910155429
##	[709,]	-0.889894088	0.7282312395	-0.892192949	-0.7421988008
##	[710,]	-0.530033306	-0.3291238926	-0.756909158	1.3946482100
##	[711,]	-0.307028916	-0.5002139211	0.330534462	-1.1792479497
##	[712,]	-1.284159678	-1.9595274717	-0.397585621	0.1903388258
##	[713,]	0.340389644	-0.6406076382	0.093235947	0.2796130450
##	[714,]	1.817584187	-1.5771940443	-0.404478630	0.3641841253
##	[715,]	0.635866004	0.5427037333	0.930028487	1.4407602576
##	[716,]	-1.263761414	0.5449374861	0.682833482	-0.8919400347
##	[717,]	1.753183637	1.1201207355	0.620027055	-1.4205861635
##	[718,]	0.054458428	-1.5846551006	0.608700035	0.5481734204
##	[719,]	0.106446871	0.1485055413	1.711864434	0.8366333296
##	[720,]	-1.167843743	-0.4395103683	-0.771638155	-1.3812398074
##	[721,]	1.586830037	-0.0370510581	1.337262805	-0.1218004522
##	[722,]	0.921995940	-0.1321810487	1.645818558	-0.5630076710
##	[723,]	1.279443680	-1.3952782122	-1.005041880	-0.6127255675
##	[724,]	1.074224697	-0.9676219276	-1.362221832	-0.1527996324
##	[725,]	-1.208862181	-1.9330434047	-0.521081255	-0.3439655837
##	[726,]	0.792630153	1.1071182602	-1.694405977	-0.0378808031
##	[727,]	-1.267095535	0.0063978808	-0.576853740	-0.0785577535
##	[728,]	-1.771929280	0.2663385166	-0.460494301	-1.5111789960
##	[729,]	-0.165741635	1.4183661831	-0.680908652	1.4399407014
##	[730,]	-0.421675829	1.5684056800	1.902705483	-0.5220374438
##	[731,]	1.914112646	-0.9155508013	0.606731452	-0.4792886109
##	[732,]	0.481514300	0.3888195145	-1.421167572	0.0881071805
##	[733,]	0.991153520	0.1498238668	-0.945864942	0.0829704987
##	[734,]	2.259107744	0.9180530703	0.057381493	0.2378150412
##	[735,]	0.275887443	-1.3800917359	0.004960807	-1.3906045756

##	[736,]	0.604162506	-2.7069613166	-0.115238167	-1.6654653698
##	[737,]	1.329237177	0.1013962988	0.057887359	0.0157159603
##	[738,]	0.987530205	-0.9623988815	0.353114309	1.5632423658
##	[739,]	-1.038395020	2.2087311378	-0.399090865	-0.3311430087
##	[740,]	0.873370639	2.9617150566	0.070091189	-1.0029404551
##	[741,]	1.065440503	2.0713453901	-0.479946515	0.8731139339
##	[742,]	1.168158443	-1.1915475874	1.244556753	-1.1356309845
##	[743,]	2.252499723	1.0317129125	-0.200186144	-0.7143766237
##	[744,]	-1.113587233	0.5478166220	-0.390033953	-1.2537626593
##	[745,]	0.002399713	-0.1261690884	2.280591729	-0.7847499134
##	[746,]	-0.452190875	1.2714230337	-0.134465874	-1.6955452688
##	[747,]	-1.061111163	-0.1047009074	-0.435328484	0.4839284332
##	[748,]	1.830110522	-1.2523210696	1.138788478	-0.2867249527
##	[749,]	0.461387556	0.0224913135	0.997167280	0.2954002717
##	[750,]	0.121803339	-0.6789474643	-0.005879442	0.1319161473
##	[751,]	0.783280584	0.7189937822	1.216191945	0.1505514736
##	[752,]	0.810579642	-1.6774333719	-0.827598694	0.9509899893
##	[753,]	-0.011196496	-0.4019646177	0.699444356	1.2654196690
##	[754,]	1.054141754	-1.6980037106	-0.504763342	0.1526091227
##	[755,]	0.584855814	1.0631874545	-0.177386776	-0.6629002762
##	[756,]	0.390945410	0.6574267146	1.326153834	0.0301612621
##	[757,]	0.360920202	0.7237820815	0.293913538	0.0057876178
##	[758,]	0.123589471	-0.1142755719	2.122805170	0.4508376808
##	[759,]	-1.641679122	1.4006945765	0.719998654	-0.6190294121
##	[760,]	1.596198129	0.2815657452	2.755480463	0.6674362818
##	[761,]	1.603167756	0.0665148743	-1.041876730	0.1846369048
##	[762,]	-1.789444130	1.4764884984	-0.665320301	-1.0895653263
##	[763,]	0.606136523	1.9842202305	-0.307880440	-0.1011200565
##	[764,]	0.904412784	-1.1148565053	0.163729780	-0.0277480652
##	[765,]	0.044362207	-1.7401338013	1.766412987	0.0055671450
##	[766,]	-0.761292245	1.6289165582	0.846103995	-1.0210066108
##	[767,]	0.483297932	0.6552052441	1.912981021	0.3628037690
##	[768,]	1.053528536	-0.9384893249	1.481980239	0.4667781750
##	[769,]	-0.910397536	0.1953181630	-1.082250562	-0.7090995883
##	[770,]	1.681100484	1.2961458598	1.118905491	0.0850100275
##	[771,]	0.366008776	-0.8498220257	-0.105432179	-0.5314932079
##	[772,]	-0.530013646	0.6478397590	-1.089480392	-1.6696541307
##	[773,]	0.181323037	-0.3057054265	-0.250064283	1.4965139378
##	[774,]	-0.212333771	0.3262654875	0.434959440	0.2427070172
##	[775,]	0.838694261	-0.2983358895	-0.971269025	-0.0445245697
##	[776,]	1.859462828	1.2901555808	0.262652896	1.6015930760
##	[777,]	1.157673166	1.6130560442	-0.709028061	0.3801309299
##	[778,]	-1.874743698	0.6869293212	-1.173665007	1.4089890754
##	[779,]	-0.938556775	-0.5060913976	-0.503923403	2.2233829696
##	[780,]	1.359097614	0.2267601155	0.471858347	1.4990557143
##	[781,]	0.547148272	0.5409904243	-0.339261424	-0.0401844714
##	[782,]	0.022587064	-1.8561990299	1.547208285	0.9879544412
##	[783,]	0.918259882	0.3545244304	1.571027256	-0.0366646828
##	[784,]	-0.302643007	0.7698556624	0.346019647	-0.0767766511
##	[785,]	0.492565661	-0.1542621875	1.178292490	-0.5561150444

##	[786,]	0.204211147	0.5507048271	-1.146305098	1.0686030503
##	[787,]	-0.257183817	0.2336040971	1.123859409	-0.5185419444
##	[788,]	0.543063337	0.6234021653	-1.131347444	0.6273988858
##	[789,]	-0.217183785	-0.6907220352	-0.685864712	0.4936833794
##	[790,]	-0.002701459	0.3035083319	0.085752568	1.9384771493
##	[791,]	-0.194052728	-0.9493652047	1.917475207	-1.7273993979
##	[792,]	0.845431479	-1.4698352964	-0.146736384	-1.0448488707
##	[793,]	-1.647067621	0.6384751268	-0.310467705	0.3842180222
##	[794,]	0.945669680	0.1794007539	0.292767308	0.0102121840
##	[795,]	-2.485011129	-0.2402476478	-0.301300146	0.8945430066
##	[796,]	1.005279636	1.8584771079	1.034315090	0.8920614265
##	[797,]	1.478264004	1.3121350582	0.227955433	-0.3372256260
##	[798,]	-1.616804251	1.2096288441	-1.151156897	1.1451518459
##	[799,]	1.038140145	0.8466614146	-1.083403826	0.0722179334
##	[800,]	0.746469846	0.2765778985	0.561647160	-0.4298599354
##	[801,]	-0.556307864	-0.0456759166	1.971112008	-1.0436187721
##	[802,]	-2.177327736	0.5194250374	-0.155340996	-0.4342227168
##	[803,]	-0.338747362	-0.4027749670	0.203384823	1.3513171402
##	[804,]	-0.633990675	0.1078086461	-0.498276540	0.9166483833
##	[805,]	1.200037746	0.1636459951	-0.669424590	1.4168204214
##	[806,]	1.684855316	-0.3779334520	0.327027687	1.5043815752
##	[807,]	-0.431731431	1.7144737015	-0.380880448	1.1181849590
##	[808,]	0.138154788	0.9153414309	-1.682319682	1.1967470173
##	[809,]	-1.650488404	0.5295445091	-0.807593163	0.5020435016
##	[810,]	-0.612761419	0.7413769370	-1.390922114	-0.4254145641
##	[811,]	1.585349922	-0.5093728908	0.106258222	0.6373119861
##	[812,]	1.599509777	-0.1056964660	0.748619497	-0.7681449296
##	[813,]	-1.025869745	1.3477216946	-0.738910301	1.6001633595
##	[814,]	-2.130238584	0.5708427530	-0.151512065	0.8093727096
##	[815,]	1.439833307	0.4824416158	0.291197537	1.1897631178
##	[816,]	0.403861828	1.1581435568	2.077530392	-0.7871043997
##	[817,]	1.375536299	2.0143169288	0.139228824	1.3061702445
##	[818,]	-0.490487983	-0.1572806637	0.452555831	-0.6568358462
##	[819,]	-0.630772432	1.5534041429	-0.445823033	0.5130090966
##	[820,]	-0.486622061	0.6107040206	1.563905684	-0.0540369071
##	[821,]	-0.116223543	-0.8410904398	-1.318381622	0.7860236629
##	[822,]	0.179643846	-0.7060772366	0.776774795	-0.3899379027
##	[823,]	-0.466270355	-1.6517316256	-1.509097450	0.5293243043
##	[824,]	0.048661014	0.0852320983	-1.697885339	0.1517039833
##	[825,]	-0.331229135	-2.2533628060	-0.980277696	-0.5937961761
##	[826,]	-0.536062480	-1.3797397364	-0.039556055	-0.4629360780
##	[827,]	0.864932594	-1.4716167122	0.229926053	0.6636682879
##	[828,]	0.526447405	-1.5936432408	-0.831765831	1.0556445667
##	[829,]	-0.225119186	-0.1348077340	-0.840426006	-1.0300770692
##	[830,]	2.261740089	0.0908662881	-1.280363592	-0.5219573422
##	[831,]	1.250861762	0.9664146665	2.265578942	-0.4105971018
##	[832,]	1.135042700	1.0463462233	-0.163558890	0.6845078066
##	[833,]	1.428237941	-2.1955664332	0.841100464	-0.0370202526
##	[834,]	1.361815180	-0.0028693609	-1.233517926	-0.9313254450
##	[835,]	-0.134462495	0.1288524241	0.124431451	-0.1064451406

##	[836,]	-1.394847925	0.7614551985	-0.481339913	-1.3562871018
##	[837,]	-0.135761498	1.0385154752	-0.095789380	0.5478382004
##	[838,]	1.402946556	0.3139790672	2.272047048	-1.4434687040
##	[839,]	-0.703591420	0.1438853661	-0.512260550	1.5282109110
##	[840,]	-0.146826633	-0.0142418170	-0.974990842	1.5507447323
##	[841,]	-0.427177695	0.1386498294	-0.213897675	0.4353623676
##	[842,]	-0.563154530	-0.2579449738	-0.533447652	-0.1224597560
##	[843,]	-0.701885869	-0.2825760479	-0.389929173	-0.2922138312
##	[844,]	1.614622283	1.9831261709	-0.767993887	2.0132991693
##	[845,]	2.464040070	1.7139917511	0.069050970	-0.4001675243
##	[846,]	0.447763989	-0.8135786116	-0.945008403	0.8164422001
##	[847,]	-0.781278494	-0.2534129562	-0.440159875	0.7613802311
##	[848,]	0.717720934	-2.0325640466	-0.210410308	1.0005715489
##	[849,]	-0.871038738	0.0704113809	-0.900483992	0.0551006157
##	[850,]	0.567265966	-0.0431024958	0.341625590	-0.5105233862
##	[851,]	-0.333888134	-1.2508617279	0.971035630	0.6659787699
##	[852,]	0.834218301	2.0904718195	-0.304768754	0.7019089592
##	[853,]	-0.803222648	1.6751687748	-0.299333222	1.5974825683
##	[854,]	0.783761055	0.3027687616	0.892460263	0.6820396276
##	[855,]	-1.260908613	0.6926879547	-0.390650643	0.2109442321
##	[856,]	0.100801590	1.9159001496	0.451729783	-0.6357786671
##	[857,]	-0.035335786	0.3119488197	-0.252862172	1.4188956958
##	[858,]	-0.453207653	-0.3511824166	-0.898151617	0.7301188658
##	[859,]	0.273967833	0.3883114899	-1.010334821	-0.3153650016
##	[860,]	-0.638568155	1.1851312712	-1.250289104	0.4802688476
##	[861,]	0.691531562	1.0928023739	-1.035883623	-0.8153903121
##	[862,]	0.283676294	0.1398655783	-0.313722607	1.1524431031
##	[863,]	-0.084926775	2.0854983248	-1.035547962	0.9426109107
##	[864,]	-0.371485457	-0.9085072567	-0.793951996	0.5529796323
##	[865,]	-0.495541483	0.3111521586	-0.718087584	-0.2150804199
##	[866,]	-0.184071688	-0.0757098226	-0.433889903	-0.1788309231
##	[867,]	0.373359744	-0.0422627762	0.733547230	-2.0086648602
##	[868,]	-0.583332795	0.5213544401	0.374186777	-1.2272432742
##	[869,]	-0.404497425	-0.0362615821	-0.432455384	0.2320147441
##	[870,]	0.204332879	-0.7634233568	1.027823013	1.1944498471
##	[871,]	0.183354250	-0.9848397531	-0.459450119	-0.2262597495
##	[872,]	1.195674803	2.0990891043	0.769852152	-0.7728400744
##	[873,]	-1.180917025	0.1719926861	2.139507517	-1.0313838266
##	[874,]	-0.617420543	0.3716211877	-0.419913853	0.2099594666
##	[875,]	-1.337583454	0.2291764254	-0.367828358	1.3475606408
##	[876,]	-1.777108072	0.7912216128	0.978781591	0.8108628782
##	[877,]	-1.154575898	1.8695975449	2.081010082	-0.4718248729
##	[878,]	2.475907042	0.6989759354	-0.966261488	-0.6119405442
##	[879,]	1.109179672	1.3954383789	0.904079527	-0.1755366047
##	[880,]	-0.541546902	1.5158889977	-0.235659382	-0.6335700700
##	[881,]	-1.037794378	0.4110290271	-0.543415883	1.3651992269
##	[882,]	0.743548024	-0.7169746923	0.682656724	0.8175844317
##	[883,]	-0.472397095	-1.4676290619	1.655278037	0.8467915566
##	[884,]	0.398107424	-0.8688849388	-1.266390630	0.1363223079
##	[885,]	0.094682429	0.1635760959	-1.096753414	1.6829708079

##	[886,]	0.009957098	-0.3391811792	1.002783846	1.2335289486
##	[887,]	-0.397041685	1.5808360137	-1.073233133	-2.2023030468
##	[888,]	0.019692654	-0.4307508709	0.029088122	-0.2581853371
##	[889,]	0.482151796	0.2572189627	1.425042444	1.9006539877
##	[890,]	1.581577048	0.1923325426	0.175921580	0.8267839106
##	[891,]	-1.564884156	2.4155787524	-0.324542370	0.3548938736
##	[892,]	-0.659521906	0.3285291839	-0.109135339	0.6306697317
##	[893,]	-0.803098306	1.0041930712	-0.609978544	-1.3710723219
##	[894,]	-0.293853271	-0.3769153552	-0.184609822	-0.6436547075
##	[895,]	-0.454319031	0.5146955517	0.139853973	1.7742240054
##	[896,]	-1.530072494	-0.6224529786	0.190202159	0.0235334197
##	[897,]	0.815835454	-0.2258329867	-1.389374701	-0.6104000559
##	[898,]	0.132942265	-0.3538061043	-0.558517963	-0.7754902833
##	[899,]	0.380114131	-0.8438322495	-0.090793113	-0.2699127970
##	[900,]	0.133241248	1.8419662157	-1.209899608	-0.9073918421
##	[901,]	0.403619447	-0.2215443249	-1.463009780	-0.0271026376
##	[902,]	-0.286406821	-1.3696198704	-1.269379043	-0.4979422727
##	[903,]	-0.622658051	-0.0700765740	0.089664330	-0.5630293192
##	[904,]	-0.516552626	1.0040919449	1.133982148	-1.1751519606
##	[905,]	0.589995378	0.7117440990	-0.717025625	0.5966326612
##	[906,]	0.167450700	1.7114196820	-1.443131359	1.1023567632
##	[907,]	-0.161095299	-0.2208389170	-1.508222437	-0.1488408142
##	[908,]	-0.644909980	-1.1401530711	-1.296987745	0.1042098234
##	[909,]	0.092760449	0.0962521279	0.189267406	-0.3089987599
##	[910,]	1.052574915	0.8183792222	-0.130074561	0.4288700288
##	[911,]	1.433927420	0.5242987262	-0.985556732	0.5848219818
##	[912,]	0.691532982	0.5030656747	0.060572942	-0.7586618572
##	[913,]	-0.441681183	-0.4724297773	0.802746944	-0.5966328754
##	[914,]	1.690524140	-1.2728329059	0.092908537	-0.5949376820
##	[915,]	2.300967555	-0.4093466337	0.284789934	0.4450485382
##	[916,]	-0.365651477	-0.6920320816	-1.038074643	0.8764721496
##	[917,]	-0.647500086	-0.2269598519	-1.589492065	-1.3019898007
##	[918,]	-1.016566113	0.5477780420	-0.923422704	-0.3691931728
##	[919,]	0.427447998	-0.7848418581	-0.009694263	-0.2547588134
##	[920,]	1.796599541	-1.2017041793	-0.080489201	1.0609938299
##	[921,]	-0.557008716	-2.5826127657	-0.810046819	-0.3153350307
##	[922,]	-0.846893868	0.5703764615	0.086671208	-0.2909397810
##	[923,]	0.249217976	2.4191030357	-0.124779350	0.2111577789
##	[924,]	0.198537713	-1.1924232778	0.472232259	0.5320684617
##	[925,]	-0.363290997	-0.8850436525	0.268542098	1.1818209320
##	[926,]	-0.183677834	-1.2746186813	0.192979098	2.2122698049
##	[927,]	-0.925495473	0.7566877907	-1.074314742	-1.2563424898
##	[928,]	-0.350491230	-0.3686576988	0.806268894	1.2010727344
##	[929,]	-0.529556994	-1.5652781532	1.289824082	0.8938072449
##	[930,]	1.151013751	-0.2270570415	0.306312061	-0.4066853827
##	[931,]	-0.542980053	0.1778224891	-0.585574309	0.1924454787
##	[932,]	-0.962611929	0.1631349678	-0.642645597	-0.3345159992
##	[933,]	-1.446229166	0.5624158141	1.382528356	1.0288773369
##	[934,]	0.557177104	-0.2199140508	-0.348205017	0.9151907537
##	[935,]	-0.282668700	-0.9647331122	-0.842461996	-0.9364424225

##	[936,]	-1.445701137	-1.4374077367	-0.660958895	1.2693778509
##	[937,]	-0.844271185	-1.0753847602	-0.042079889	0.2586786829
##	[938,]	0.641821817	0.3940854936	0.662704458	-0.8613301167
##	[939,]	1.058704109	-0.7249560765	0.444179910	-0.6511968493
##	[940,]	0.107500672	0.3039086287	0.418694714	-0.3010921345
##	[941,]	-0.650177823	-0.2443167966	-0.177959577	-0.9517802351
##	[942,]	1.437485375	-0.6356715130	-0.922227440	0.3499455061
##	[943,]	-0.129356773	-0.1901560182	-0.946816496	1.3680554185
##	[944,]	-0.176705029	0.5647921860	-0.271275626	0.7875259636
##	[945,]	-0.152618885	0.2528170139	0.522956663	1.0600288375
##	[946,]	-0.891774938	1.9881555353	-0.327685211	-1.2261685220
##	[947,]	-0.747120473	0.5589840198	-0.568832095	-0.4069912019
##	[948,]	-0.819215992	-1.4779022732	-0.145141108	0.7478662708
##	[949,]	-0.259130230	0.0650778501	2.576654961	0.3033871154
##	[950,]	-1.489255769	-0.8584417212	-0.210503611	-0.2355125171
##	[951,]	-0.977755688	0.6953591970	-0.468967284	-0.7668966814
##	[952,]	-1.808154093	1.9267999101	-0.422271192	-1.2789505186
##	[953,]	-0.128097985	0.3104801506	-0.155124594	-1.6698712140
##	[954,]	0.101474849	-0.3307048221	1.646127126	0.6285821308
##	[955,]	0.817445489	-0.4183655842	0.119193135	1.1785911226
##	[956,]	-0.161891762	0.3787032370	1.514757728	-0.4081523257
##	[957,]	-1.262432212	-1.3799795294	-0.633515777	-1.3055173379
##	[958,]	-1.756883433	-0.6963061297	-1.018721698	-1.4641026006
##	[959,]	-0.004466022	-1.1648495652	1.730298475	2.0268527381
##	[960,]	-0.902432884	-0.6728746275	-0.415076608	-0.5033132979
##	[961,]	0.826858029	-0.1398680838	-0.594624524	-0.6464417353
##	[962,]	0.328952006	2.3173175115	1.681731742	0.2242278839
##	[963,]	0.684281851	-1.6671768849	-0.337908208	-1.2402988444
##	[964,]	-0.468265316	1.5742963678	-0.501768368	-1.0107949347
##	[965,]	0.479367625	0.4137536945	0.472135006	-0.4534190385
##	[966,]	0.781810001	-0.3594440655	-0.445402489	1.1803276604
##	[967,]	2.461577886	-1.0595087155	-0.152468903	2.0165763119
##	[968,]	0.528624365	0.8057373615	1.270545273	-1.2902179523
##	[969,]	-1.931175531	1.3812334509	0.360949087	-0.5805593263
##	[970,]	-0.647123796	-0.2693596870	-1.242696476	-0.1502711774
##	[971,]	0.269675520	0.5088579955	-1.174013986	-0.9506883907
##	[972,]	-0.241709768	0.6584978845	-0.349341216	-0.9089445326
##	[973,]	0.749243332	-0.2103832590	1.855949512	0.1049770055
##	[974,]	-0.177496995	-1.0234897874	0.022798094	-0.4716419345
##	[975,]	0.114533950	0.1948597662	0.444770923	-0.7592264683
##	[976,]	1.979763461	-0.3504580226	0.410083613	0.4903816772
##	[977,]	0.788689738	0.6492665463	0.060987033	0.1747288569
##	[978,]	-0.881456634	-0.2596090322	-1.173033264	0.3201045990
##	[979,]	0.494150974	-0.3112696869	-0.859413376	0.1017367634
##	[980,]	0.944494859	0.8206103014	-1.138990309	-0.0779093340
##	[981,]	1.142460000	-1.5099510803	-1.312208382	-1.2231446795
##	[982,]	1.008466095	-1.8641617131	-0.725975213	-0.8626947646
##	[983,]	-0.865889229	0.6597010328	-0.341752438	-0.0669748953
##	[984,]	-0.481995935	-0.5427662828	-0.783753552	1.6809898641
##	[985,]	-0.153880782	-1.0015160528	-1.316075804	-0.4710829660

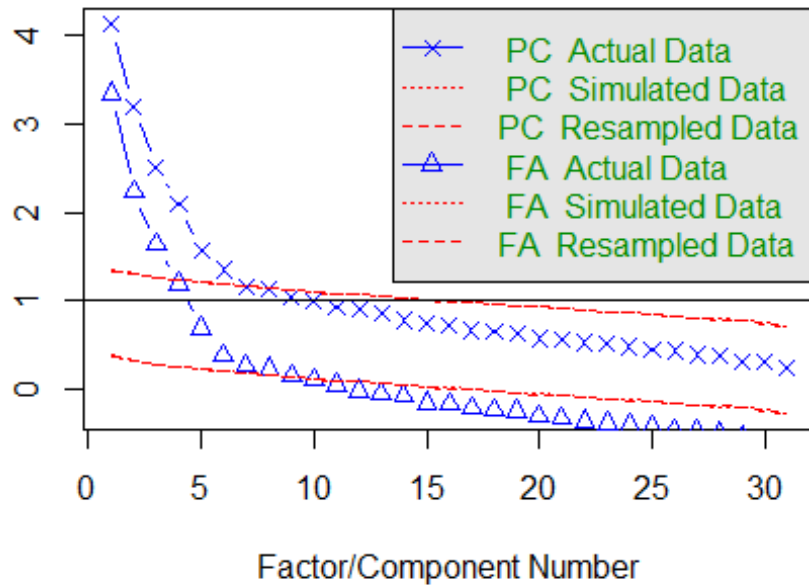
```
## [986,] 0.465129845 -1.4895264671 -0.947912202 -0.3174259258
## [987,] 1.694297281 -0.5390831497 -0.507549319 -2.0575169254
## [988,] 0.632630707 -0.4901047360 -0.661159251 -1.4558335760
## [989,] 2.427050888 1.8079321446 1.702176925 -0.4424693992
## [990,] 2.609594485 0.4161349725 -0.190739115 -0.1247252630
## [991,] -0.613185384 0.8429028101 -1.502931933 -1.1671968540
## [992,] -1.611391634 -0.8826797822 -1.106739457 -1.1372814990
## [993,] -0.820109859 -0.2514967980 0.457353787 -2.8985041326
## [994,] 0.628294886 -0.6234968105 -1.976959104 0.7358637828
## [995,] 0.358716948 -1.2236223580 0.089701922 0.0078966457
## [996,] -0.048766237 1.0929392074 -1.334796717 -0.4139528307
## [997,] -1.168297597 -1.1441959683 -0.685151131 -1.0306590105
## [998,] 0.471818559 0.3456823559 -0.073062235 1.1562020103
## [999,] 0.751649988 0.5335170061 0.481971887 -1.6854355599
## [1000,] 1.744102191 1.5612373637 0.718071975 -1.2431756705
## [1001,] -1.116141486 -0.4023475284 1.796745606 1.9574460151
## [1002,] -0.830047788 -0.3012755628 -1.084560660 1.1503056306
## [1003,] -1.111560895 -0.4724648749 -0.996801880 -1.7517230388
## [1004,] 0.001262349 -1.2436659511 -0.206117339 0.2604245601
## [1005,] -0.487159304 0.2940337244 0.175441993 -0.0970928106
## [1006,] 0.940923679 -0.7004614808 -0.332859940 1.1593730846
## [1007,] -1.049311064 1.1890934459 0.956772684 -0.9997233640
## [1008,] -0.750923700 -1.6190153305 -1.053104632 -1.5164567797
## [1009,] 1.134152886 -0.0963284274 0.069800430 0.9284038148
## [1010,] -1.456714583 0.0384581747 1.956798118 0.9061885496
```

```
# Play with FA utilities
```

```
fa.parallel(hobbies_transformed[-1]) # See factor recommendation
```

eigenvalues of principal components and factor analysis

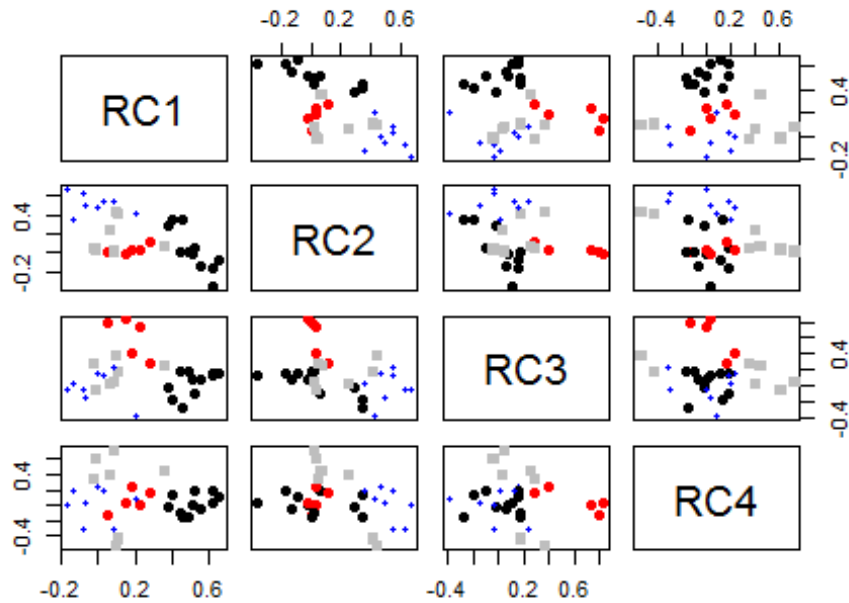
Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 8 and the number of components = 6

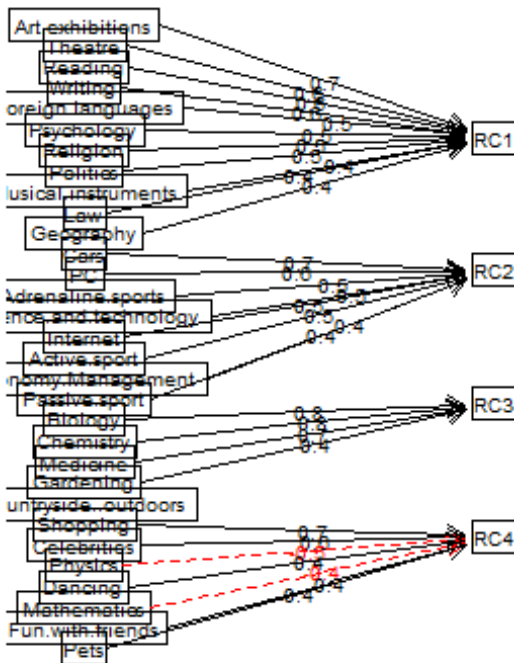
`fa.plot(fit.pc.hobbies)` # See Correlations within Factors

Principal Component Analysis

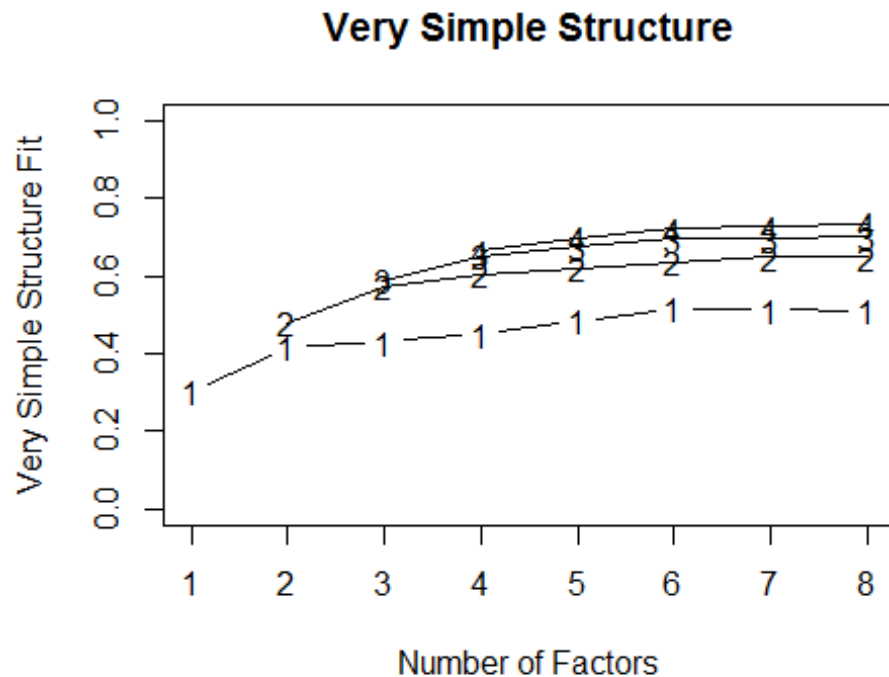


```
fa.diagram(fit.pc.hobbies) # Visualize the relationship
```

Components Analysis



```
vss(hobbies_transformed[-1]) # See Factor recommendations for a simple structure
```



```
##
## Very Simple Structure
## Call: vss(x = hobbies_transformed[-1])
## VSS complexity 1 achieves a maximum of 0.52 with 6 factors
## VSS complexity 2 achieves a maximum of 0.65 with 8 factors
##
## The Velicer MAP achieves a minimum of 0.01 with 5 factors
## BIC achieves a minimum of -873.28 with 7 factors
## Sample Size adjusted BIC achieves a minimum of -84.44 with 8 factors
##
## Statistics by number of factors
##   vss1 vss2  map dof chisq      prob sqresid  fit RMSEA  BIC  SABIC complex
## 1 0.30 0.00 0.019 434 5922 0.0e+00      38 0.30 0.112 2920 4298 1.0
## 2 0.42 0.48 0.016 404 4425 0.0e+00      28 0.48 0.099 1630 2913 1.2
## 3 0.43 0.57 0.015 375 3041 0.0e+00      22 0.59 0.084 447 1638 1.5
## 4 0.45 0.61 0.013 347 2146 2.2e-256      18 0.66 0.072 -254 848 1.7
## 5 0.48 0.62 0.012 320 1639 9.7e-176      16 0.71 0.064 -575 442 1.8
## 6 0.52 0.63 0.013 294 1291 7.9e-125      14 0.74 0.058 -743 191 1.8
## 7 0.51 0.65 0.014 269 988 1.1e-82       13 0.75 0.051 -873 -19 1.9
## 8 0.51 0.65 0.016 245 832 5.2e-65       12 0.77 0.049 -863 -84 2.0
##   eChisq SRMR eCRMS  eBIC
## 1 12973 0.118 0.122 9970.6
## 2 7412 0.089 0.095 4616.8
## 3 4262 0.067 0.075 1668.2
```



```
## 4    2392 0.050 0.058    -8.1
## 5    1591 0.041 0.050   -623.1
## 6    1105 0.034 0.043   -928.4
## 7     856 0.030 0.040  -1005.0
## 8     655 0.026 0.036 -1040.3
```

@Conclusion: The proportion of the total variance for RC1 is about 52% which restores maximum of the total variance. Also the components for RC1 contribute to Art exhibition, Theatre, Reading, Writing, Foreign Language, Psychology, Religion, Politics, Musical Instrument, Law and Geography.

```
#movie_pca
```

```
eigvec.movie<- movie_pca$rotation
```

```
pcafactors.movies<- eigvec.movie[,1:4]
```

```
pcafactors.movies
```

##	PC1	PC2	PC3	PC4
## Movies	-0.18067387	0.2943522148	-0.29434144	0.1753636709
## Horror	-0.29774492	0.0281326824	-0.48865014	-0.3468640042
## Thriller	-0.38637808	0.0264578000	-0.39885764	-0.3255496550
## Comedy	0.00957783	0.3601720121	-0.23777270	0.5045943972
## Romantic	0.25313650	0.3635153351	-0.09666751	0.2900854864
## Sci.fi	-0.37660398	0.1182255631	0.04518061	0.1849454105
## War	-0.40483304	0.0003113374	0.24428376	-0.0005316756
## Fantasy.Fairy.tales	0.13147403	0.5530319979	0.14626774	-0.2789775438
## Animated	0.05080348	0.5454401638	0.10708136	-0.3574114799
## Documentary	-0.18889650	0.1506598727	0.47688883	-0.1906702214
## Western	-0.36669650	0.0334098269	0.35553267	0.1424325175
## Action	-0.41171847	0.0941099146	0.03483277	0.3282782261

```
unrot.fact.movies<- sweep(pcafactors.movies,MARGIN=2,movie_pca$sdev[1:4],`*`)
unrot.fact.movies
```

##	PC1	PC2	PC3	PC4
## Movies	-0.28754331	0.4281207554	-0.35572299	0.1756920182
## Horror	-0.47386244	0.0409175969	-0.59055256	-0.3475134652
## Thriller	-0.61492253	0.0384815632	-0.48203485	-0.3261592075
## Comedy	0.01524316	0.5238523992	-0.28735749	0.5055391894
## Romantic	0.40286793	0.5287150974	-0.11682641	0.2906286365
## Sci.fi	-0.59936701	0.1719532412	0.05460252	0.1852916985
## War	-0.64429368	0.0004528249	0.29522636	-0.0005326711
## Fantasy.Fairy.tales	0.20924153	0.8043577213	0.17677022	-0.2794998957
## Animated	0.08085397	0.7933157736	0.12941196	-0.3580806898
## Documentary	-0.30062967	0.2191273422	0.57633856	-0.1910272284
## Western	-0.58359919	0.0485929428	0.42967496	0.1426992052
## Action	-0.65525187	0.1368782217	0.04209675	0.3288928876

```
communalities.movies<- rowSums(unrot.fact.movies^2)
```

```
communalities.movies # 1 - this would be your unique variance
```

```
##          Movies          Horror          Thriller
Comedy
##          0.4233751          0.6957378          0.7183480
0.6127979
##          Romantic          Sci.fi          War
Fantasy.Fairy.tales
##          0.5399556          0.4261232          0.5022734
0.8001413
##          Animated          Documentary          Western
Action
##          0.7808565          0.5070525          0.5479329
0.5580333
```

```
rot.fact.movies<- varimax(unrot.fact.movies)
View(unrot.fact.movies)
rot.fact.movies
```

```
## $loadings
##
## Loadings:
##          PC1    PC2    PC3    PC4
## Movies      -0.160  0.119 -0.348  0.512
## Horror              -0.833
## Thriller     -0.199              -0.823
## Comedy              0.776
## Romantic      0.255  0.305  0.241  0.569
## Sci.fi        -0.590              -0.210  0.184
## War           -0.678              -0.142 -0.150
## Fantasy.Fairy.tales      0.868              0.198
## Animated              0.867              0.153
## Documentary    -0.511  0.393  0.143 -0.267
## Western        -0.734
## Action         -0.661 -0.131 -0.182  0.267
##
##          PC1    PC2    PC3    PC4
## SS loadings  2.180  1.795  1.681  1.457
## Proportion Var 0.182  0.150  0.140  0.121
## Cumulative Var 0.182  0.331  0.471  0.593
##
## $rotmat
##          [,1]    [,2]    [,3]    [,4]
## [1,]  0.8288249  0.1368652  0.54148538  0.03332804
## [2,] -0.1220026  0.8082738 -0.05285963  0.57359801
## [3,] -0.4882471  0.2804133  0.70318260 -0.43418587
## [4,] -0.2444983 -0.4993293  0.45774848  0.69379910
```

```
fact.load.movies<- rot.fact.movies$loadings[1:9,1:4]
fact.load.movies
```

```
##          PC1          PC2          PC3          PC4
## Movies      -0.159830557  0.119206482 -0.348046265  0.51233082
```

```
## Horror -0.024439028 -0.023857816 -0.833092518 0.02298240
## Thriller -0.199260476 -0.025366021 -0.823263087 -0.01541745
## Comedy -0.034579417 0.092493050 0.009908317 0.77649792
## Romantic 0.255384335 0.304606113 0.241083925 0.56905899
## Sci.fi -0.589712060 -0.020257509 -0.210425326 0.18350388
## War -0.678075076 -0.004764028 -0.141545337 -0.14976599
## Fantasy.Fairy.tales 0.057320579 0.867910376 0.067144264 0.19768369
## Animated -0.005407689 0.867371471 -0.071063792 0.15311415
```

```
scale.movies<- scale(movie_transformed[,-1])
scale.movies
```

```
## Horror Thriller Comedy Romantic Sci.fi War
## [1,] 0.8561814 -1.1535953 0.6468366 0.4229256 0.67817250 -1.5967598
## [2,] -0.5614304 -1.1535953 -0.6366702 -0.4048938 0.67817250 -1.5967598
## [3,] 0.1473755 0.5156472 -0.6366702 -1.2327132 0.67817250 -0.8559571
## [4,] 0.8561814 0.5156472 -1.9201769 -0.4048938 0.67817250 -0.1151545
## [5,] 0.8561814 0.5156472 0.6468366 -1.2327132 -0.08288775 -0.1151545
## [6,] 1.5649873 1.3502685 0.6468366 -1.2327132 -0.08288775 -0.1151545
## [7,] -0.5614304 -1.9882166 0.6468366 -0.4048938 -1.60500825 -0.1151545
## [8,] 0.8561814 0.5156472 0.6468366 -1.2327132 -0.08288775 -0.1151545
## [9,] -1.2702363 1.3502685 0.6468366 0.4229256 0.67817250 1.3664509
## [10,] -0.5614304 -1.9882166 0.6468366 1.2507450 -1.60500825 -0.1151545
## [11,] 1.5649873 0.5156472 0.6468366 -0.4048938 -0.08288775 -0.8559571
## [12,] 0.1473755 0.5156472 -0.6366702 -0.4048938 -0.84394800 1.3664509
## [13,] -1.2702363 1.3502685 -0.6366702 -0.4048938 -1.60500825 0.6256482
## [14,] 0.1473755 -1.1535953 0.6468366 1.2507450 -0.84394800 -1.5967598
## [15,] -1.2702363 -0.3189741 0.6468366 0.4229256 -1.60500825 -1.5967598
## [16,] 1.5649873 1.3502685 0.6468366 -0.4048938 -0.08288775 1.3664509
## [17,] 0.1473755 -0.3189741 0.6468366 -0.4048938 -0.84394800 -0.8559571
## [18,] 0.8561814 -1.1535953 0.6468366 1.2507450 1.43923275 -0.8559571
## [19,] -0.5614304 0.5156472 0.6468366 0.4229256 1.43923275 1.3664509
## [20,] -1.2702363 0.5156472 -0.6366702 -1.2327132 -0.08288775 1.3664509
## [21,] 1.5649873 1.3502685 0.6468366 -0.4048938 -0.08288775 0.6256482
## [22,] 1.5649873 1.3502685 0.6468366 -1.2327132 1.43923275 -0.1151545
## [23,] -0.5614304 -0.3189741 0.6468366 0.4229256 0.67817250 -0.8559571
## [24,] -0.5614304 0.5156472 0.6468366 1.2507450 0.67817250 -0.1151545
## [25,] 0.8561814 -1.1535953 0.6468366 1.2507450 -0.84394800 -0.8559571
## [26,] -1.2702363 -1.1535953 0.6468366 1.2507450 -1.60500825 -1.5967598
## [27,] 0.1473755 -1.1535953 0.6468366 0.4229256 -0.84394800 1.3664509
## [28,] -0.5614304 0.5156472 -1.9201769 0.4229256 1.43923275 -0.1151545
## [29,] 0.1473755 -0.3189741 0.6468366 -0.4048938 -1.60500825 1.3664509
## [30,] 0.1473755 -1.1535953 0.6468366 1.2507450 -0.84394800 0.6256482
## [31,] -0.5614304 1.3502685 -0.6366702 -0.4048938 0.67817250 0.6256482
## [32,] -1.2702363 -1.9882166 0.6468366 1.2507450 -0.84394800 -0.8559571
## [33,] 1.5649873 1.3502685 0.6468366 1.2507450 -0.84394800 -0.1151545
## [34,] 0.1473755 0.5156472 -0.6366702 -0.4048938 -1.60500825 -0.1151545
## [35,] -0.5614304 -0.3189741 0.6468366 0.4229256 0.67817250 -0.8559571
## [36,] -1.2702363 -1.1535953 0.6468366 1.2507450 -0.08288775 0.6256482
## [37,] 0.1473755 1.3502685 -0.6366702 0.4229256 0.67817250 0.6256482
```

##	[38,]	0.1473755	-1.1535953	0.6468366	-1.2327132	-0.08288775	0.6256482
##	[39,]	-1.2702363	0.5156472	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[40,]	1.5649873	1.3502685	0.6468366	1.2507450	-0.08288775	0.6256482
##	[41,]	-1.2702363	1.3502685	0.6468366	-0.4048938	-0.84394800	-1.5967598
##	[42,]	-1.2702363	1.3502685	0.6468366	-2.0605326	1.43923275	1.3664509
##	[43,]	0.8561814	0.5156472	0.6468366	1.2507450	1.43923275	-0.1151545
##	[44,]	-1.2702363	-1.9882166	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[45,]	0.1473755	0.5156472	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[46,]	1.5649873	0.5156472	0.6468366	-1.2327132	0.67817250	-1.5967598
##	[47,]	1.5649873	1.3502685	0.6468366	-0.4048938	1.43923275	-1.5967598
##	[48,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	-0.84394800	-0.1151545
##	[49,]	-0.5614304	-1.1535953	-1.9201769	-1.2327132	-0.84394800	-1.5967598
##	[50,]	0.1473755	0.5156472	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[51,]	-1.2702363	1.3502685	0.6468366	0.4229256	-0.84394800	0.6256482
##	[52,]	-0.5614304	0.5156472	0.6468366	1.2507450	0.67817250	-0.1151545
##	[53,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[54,]	0.1473755	-0.3189741	0.6468366	1.2507450	-1.60500825	1.3664509
##	[55,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	-0.1151545
##	[56,]	-0.5614304	0.5156472	-1.9201769	-0.4048938	-0.84394800	-0.1151545
##	[57,]	0.8561814	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[58,]	0.8561814	0.5156472	0.6468366	-0.4048938	1.43923275	-0.1151545
##	[59,]	-0.5614304	0.5156472	0.6468366	-2.0605326	-0.08288775	-0.8559571
##	[60,]	1.5649873	-0.3189741	-1.9201769	-0.4048938	0.67817250	-0.1151545
##	[61,]	-1.2702363	0.5156472	-0.6366702	0.4229256	0.67817250	1.3664509
##	[62,]	0.1473755	0.5156472	0.6468366	1.2507450	1.43923275	-0.1151545
##	[63,]	0.8561814	1.3502685	0.6468366	-2.0605326	1.43923275	1.3664509
##	[64,]	0.8561814	1.3502685	-1.9201769	-1.2327132	0.67817250	1.3664509
##	[65,]	-0.5614304	-1.9882166	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[66,]	1.5649873	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[67,]	0.1473755	0.5156472	0.6468366	-0.4048938	1.43923275	1.3664509
##	[68,]	0.1473755	-0.3189741	0.6468366	1.2507450	-1.60500825	-0.8559571
##	[69,]	-1.2702363	-1.1535953	0.6468366	0.4229256	0.67817250	-0.8559571
##	[70,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[71,]	-1.2702363	-0.3189741	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[72,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-1.60500825	-0.1151545
##	[73,]	0.8561814	1.3502685	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[74,]	0.8561814	0.5156472	0.6468366	0.4229256	-0.08288775	1.3664509
##	[75,]	-1.2702363	-1.9882166	0.6468366	-2.0605326	0.67817250	1.3664509
##	[76,]	-0.5614304	-0.3189741	0.6468366	-1.2327132	-1.60500825	0.6256482
##	[77,]	-0.5614304	-1.1535953	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[78,]	-1.2702363	-1.1535953	0.6468366	-0.4048938	-1.60500825	-1.5967598
##	[79,]	0.1473755	-0.3189741	0.6468366	0.4229256	-0.84394800	-0.1151545
##	[80,]	0.8561814	0.5156472	0.6468366	0.4229256	1.43923275	1.3664509
##	[81,]	1.5649873	0.5156472	0.6468366	0.4229256	-0.08288775	0.6256482
##	[82,]	0.8561814	-0.3189741	0.6468366	-0.4048938	1.43923275	-0.1151545
##	[83,]	-1.2702363	-1.1535953	-1.9201769	-1.2327132	0.67817250	-0.1151545
##	[84,]	0.1473755	1.3502685	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[85,]	1.5649873	1.3502685	-0.6366702	-2.0605326	1.43923275	1.3664509
##	[86,]	0.1473755	-0.3189741	0.6468366	0.4229256	-0.08288775	1.3664509
##	[87,]	-0.5614304	0.5156472	-0.6366702	-2.0605326	0.67817250	0.6256482

##	[88,]	-1.2702363	1.3502685	0.6468366	0.4229256	-1.60500825	1.3664509
##	[89,]	1.5649873	1.3502685	0.6468366	-1.2327132	-0.84394800	-1.5967598
##	[90,]	-1.2702363	0.5156472	-0.6366702	-0.4048938	-0.84394800	-0.1151545
##	[91,]	-0.5614304	-1.1535953	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[92,]	0.8561814	0.5156472	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[93,]	-1.2702363	-0.3189741	-1.9201769	0.4229256	-0.08288775	-0.8559571
##	[94,]	0.8561814	-0.3189741	-1.9201769	-2.0605326	0.67817250	-0.1151545
##	[95,]	1.5649873	1.3502685	0.6468366	-2.0605326	0.67817250	-0.8559571
##	[96,]	0.1473755	-0.3189741	0.6468366	-0.4048938	1.43923275	1.3664509
##	[97,]	-1.2702363	-1.9882166	0.6468366	-2.0605326	1.43923275	1.3664509
##	[98,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	1.43923275	1.3664509
##	[99,]	0.1473755	-0.3189741	-3.2036837	-1.2327132	1.43923275	1.3664509
##	[100,]	-0.5614304	-1.9882166	0.6468366	0.4229256	-0.84394800	-1.5967598
##	[101,]	-0.5614304	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[102,]	-1.2702363	0.5156472	0.6468366	-0.4048938	0.67817250	1.3664509
##	[103,]	0.8561814	1.3502685	0.6468366	0.4229256	1.43923275	0.6256482
##	[104,]	-1.2702363	1.3502685	0.6468366	1.2507450	0.67817250	0.6256482
##	[105,]	0.8561814	0.5156472	-0.6366702	-1.2327132	-0.08288775	1.3664509
##	[106,]	-1.2702363	-1.1535953	-0.6366702	-0.4048938	-1.60500825	0.6256482
##	[107,]	-0.5614304	-0.3189741	0.6468366	1.2507450	1.43923275	1.3664509
##	[108,]	-1.2702363	-1.9882166	-0.6366702	-1.2327132	-0.84394800	-0.1151545
##	[109,]	0.1473755	1.3502685	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[110,]	-1.2702363	0.5156472	-0.6366702	-1.2327132	1.43923275	1.3664509
##	[111,]	-1.2702363	-1.1535953	0.6468366	-0.4048938	0.67817250	1.3664509
##	[112,]	-1.2702363	-1.1535953	-0.6366702	0.4229256	-0.84394800	-0.8559571
##	[113,]	-1.2702363	-0.3189741	-0.6366702	0.4229256	-0.08288775	-1.5967598
##	[114,]	0.1473755	-0.3189741	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[115,]	-1.2702363	0.5156472	-0.6366702	-0.4048938	-0.84394800	-0.8559571
##	[116,]	1.5649873	1.3502685	0.6468366	-0.4048938	-0.08288775	-1.5967598
##	[117,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[118,]	-1.2702363	-1.1535953	-0.6366702	1.2507450	-0.84394800	-0.8559571
##	[119,]	0.1473755	-1.1535953	-1.9201769	-1.2327132	-0.84394800	-0.1151545
##	[120,]	-0.5614304	-0.3189741	-0.6366702	-0.4048938	-1.60500825	-0.8559571
##	[121,]	-1.2702363	-0.3189741	0.6468366	0.4229256	-0.84394800	1.3664509
##	[122,]	0.8561814	0.5156472	-0.6366702	-0.4048938	-0.08288775	0.6256482
##	[123,]	0.8561814	0.5156472	-1.9201769	-1.2327132	-0.84394800	-0.8559571
##	[124,]	-1.2702363	0.5156472	-0.6366702	-1.2327132	-1.60500825	-1.5967598
##	[125,]	1.5649873	1.3502685	0.6468366	0.4229256	1.43923275	1.3664509
##	[126,]	-0.5614304	-0.3189741	0.6468366	0.4229256	0.67817250	-0.1151545
##	[127,]	-1.2702363	-1.1535953	-0.6366702	0.4229256	-1.60500825	-1.5967598
##	[128,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	0.67817250	0.6256482
##	[129,]	-1.2702363	0.5156472	-1.9201769	1.2507450	1.43923275	1.3664509
##	[130,]	-1.2702363	-1.9882166	-0.6366702	1.2507450	-0.84394800	-0.8559571
##	[131,]	0.8561814	1.3502685	-0.6366702	-1.2327132	-0.08288775	0.6256482
##	[132,]	0.1473755	1.3502685	-3.2036837	-2.0605326	0.67817250	-0.1151545
##	[133,]	0.8561814	0.5156472	0.6468366	1.2507450	1.43923275	0.6256482
##	[134,]	-1.2702363	-1.9882166	-3.2036837	-1.2327132	-1.60500825	0.6256482
##	[135,]	1.5649873	-0.3189741	0.6468366	1.2507450	1.43923275	-0.1151545
##	[136,]	0.1473755	1.3502685	0.6468366	-1.2327132	0.67817250	1.3664509
##	[137,]	0.8561814	0.5156472	0.6468366	0.4229256	-0.08288775	1.3664509

##	[138,]	-1.2702363	-0.3189741	-0.6366702	-0.4048938	-1.60500825	-0.8559571
##	[139,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[140,]	0.1473755	-0.3189741	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[141,]	-1.2702363	-1.1535953	0.6468366	1.2507450	1.43923275	1.3664509
##	[142,]	0.1473755	-1.9882166	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[143,]	-1.2702363	-1.1535953	-0.6366702	0.4229256	0.67817250	-1.5967598
##	[144,]	0.8561814	-1.1535953	-0.6366702	-0.4048938	-0.08288775	-1.5967598
##	[145,]	1.5649873	-1.1535953	0.6468366	-0.4048938	1.43923275	1.3664509
##	[146,]	-0.5614304	0.5156472	-0.6366702	0.4229256	-1.60500825	-0.8559571
##	[147,]	0.1473755	1.3502685	0.6468366	0.4229256	-0.08288775	0.6256482
##	[148,]	-0.5614304	-0.3189741	-1.9201769	-0.4048938	0.67817250	-0.1151545
##	[149,]	0.8561814	0.5156472	0.6468366	1.2507450	0.67817250	-0.1151545
##	[150,]	-0.5614304	-1.1535953	-0.6366702	-1.2327132	1.43923275	1.3664509
##	[151,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	0.67817250	-0.8559571
##	[152,]	0.8561814	0.5156472	0.6468366	-1.2327132	-0.84394800	-0.8559571
##	[153,]	1.5649873	-0.3189741	0.6468366	-0.4048938	-0.84394800	1.3664509
##	[154,]	-0.5614304	0.5156472	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[155,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.84394800	1.3664509
##	[156,]	1.5649873	0.5156472	-1.9201769	-0.4048938	0.67817250	-0.8559571
##	[157,]	0.8561814	0.5156472	-0.6366702	0.4229256	-0.08288775	-0.1151545
##	[158,]	1.5649873	1.3502685	-1.9201769	-1.2327132	0.67817250	1.3664509
##	[159,]	0.8561814	0.5156472	0.6468366	1.2507450	0.67817250	-1.5967598
##	[160,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	0.67817250	0.6256482
##	[161,]	1.5649873	0.5156472	0.6468366	-0.4048938	1.43923275	1.3664509
##	[162,]	-0.5614304	1.3502685	0.6468366	-0.4048938	1.43923275	-0.8559571
##	[163,]	-0.5614304	-1.1535953	0.6468366	1.2507450	-0.08288775	1.3664509
##	[164,]	1.5649873	1.3502685	-1.9201769	-0.4048938	1.43923275	-0.1151545
##	[165,]	-0.5614304	1.3502685	-1.9201769	-0.4048938	-0.84394800	-1.5967598
##	[166,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-0.84394800	1.3664509
##	[167,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.08288775	-0.8559571
##	[168,]	-1.2702363	-1.1535953	0.6468366	-1.2327132	-0.08288775	-1.5967598
##	[169,]	1.5649873	1.3502685	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[170,]	0.1473755	-1.1535953	-3.2036837	-2.0605326	-0.84394800	0.6256482
##	[171,]	-1.2702363	-1.1535953	0.6468366	-1.2327132	-0.08288775	1.3664509
##	[172,]	1.5649873	1.3502685	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[173,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	1.43923275	0.6256482
##	[174,]	0.8561814	-0.3189741	0.6468366	0.4229256	1.43923275	-0.1151545
##	[175,]	-1.2702363	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[176,]	-0.5614304	0.5156472	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[177,]	0.1473755	-1.1535953	-0.6366702	-0.4048938	0.67817250	-0.1151545
##	[178,]	0.1473755	0.5156472	0.6468366	1.2507450	0.67817250	-0.1151545
##	[179,]	0.1473755	-0.3189741	-1.9201769	-1.2327132	-0.84394800	-0.8559571
##	[180,]	0.8561814	0.5156472	-0.6366702	-1.2327132	0.67817250	1.3664509
##	[181,]	1.5649873	1.3502685	0.6468366	-2.0605326	1.43923275	-1.5967598
##	[182,]	-0.5614304	-0.3189741	-0.6366702	-1.2327132	-0.84394800	-0.1151545
##	[183,]	-1.2702363	0.5156472	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[184,]	-1.2702363	0.5156472	-0.6366702	-1.2327132	-0.84394800	1.3664509
##	[185,]	0.1473755	-0.3189741	0.6468366	-1.2327132	-0.08288775	-1.5967598
##	[186,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[187,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.84394800	-0.8559571

##	[188,]	-0.5614304	0.5156472	-0.6366702	-2.0605326	-0.84394800	-0.8559571
##	[189,]	-0.5614304	-1.1535953	-3.2036837	-1.2327132	-0.84394800	1.3664509
##	[190,]	1.5649873	1.3502685	-0.6366702	0.4229256	0.67817250	1.3664509
##	[191,]	0.1473755	1.3502685	-0.6366702	0.4229256	-0.08288775	-0.1151545
##	[192,]	-1.2702363	-1.1535953	-0.6366702	1.2507450	-1.60500825	-1.5967598
##	[193,]	0.1473755	-0.3189741	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[194,]	0.1473755	0.5156472	0.6468366	1.2507450	0.67817250	-0.1151545
##	[195,]	0.1473755	1.3502685	-0.6366702	-1.2327132	0.67817250	0.6256482
##	[196,]	1.5649873	1.3502685	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[197,]	-1.2702363	-1.1535953	0.6468366	1.2507450	0.67817250	-0.1151545
##	[198,]	0.8561814	0.5156472	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[199,]	1.5649873	-0.3189741	-1.9201769	-1.2327132	-0.08288775	1.3664509
##	[200,]	-1.2702363	0.5156472	0.6468366	-1.2327132	-0.08288775	-0.1151545
##	[201,]	0.8561814	0.5156472	0.6468366	1.2507450	1.43923275	1.3664509
##	[202,]	0.1473755	-0.3189741	0.6468366	1.2507450	0.67817250	0.6256482
##	[203,]	1.5649873	-0.3189741	0.6468366	-1.2327132	1.43923275	1.3664509
##	[204,]	0.1473755	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[205,]	-1.2702363	-1.1535953	-0.6366702	-1.2327132	1.43923275	-1.5967598
##	[206,]	-1.2702363	-1.9882166	-0.6366702	0.4229256	-0.08288775	-0.1151545
##	[207,]	1.5649873	0.5156472	-0.6366702	-2.0605326	0.67817250	0.6256482
##	[208,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[209,]	0.1473755	0.5156472	-0.6366702	-1.2327132	-0.08288775	1.3664509
##	[210,]	-1.2702363	0.5156472	0.6468366	-0.4048938	-0.08288775	1.3664509
##	[211,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[212,]	-0.5614304	1.3502685	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[213,]	1.5649873	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[214,]	-1.2702363	-0.3189741	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[215,]	-1.2702363	-0.3189741	0.6468366	-1.2327132	-0.08288775	-0.8559571
##	[216,]	1.5649873	-1.9882166	0.6468366	-0.4048938	-1.60500825	1.3664509
##	[217,]	0.8561814	-1.1535953	-1.9201769	-2.0605326	-1.60500825	0.6256482
##	[218,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[219,]	0.1473755	-1.1535953	0.6468366	-0.4048938	1.43923275	1.3664509
##	[220,]	1.5649873	1.3502685	0.6468366	-2.0605326	-0.08288775	1.3664509
##	[221,]	0.1473755	-0.3189741	0.6468366	-0.4048938	-0.84394800	-0.1151545
##	[222,]	0.8561814	1.3502685	0.6468366	-0.4048938	0.67817250	-0.1151545
##	[223,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[224,]	-1.2702363	-1.1535953	0.6468366	-0.4048938	-0.84394800	-0.8559571
##	[225,]	0.8561814	-0.3189741	-0.6366702	-0.4048938	0.67817250	1.3664509
##	[226,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	1.43923275	1.3664509
##	[227,]	0.1473755	-0.3189741	0.6468366	-2.0605326	-0.08288775	-1.5967598
##	[228,]	-0.5614304	0.5156472	-1.9201769	-0.4048938	-0.84394800	0.6256482
##	[229,]	-1.2702363	-1.1535953	-1.9201769	-1.2327132	1.43923275	1.3664509
##	[230,]	-1.2702363	-0.3189741	-0.6366702	-2.0605326	-0.84394800	-0.8559571
##	[231,]	-1.2702363	-0.3189741	-0.6366702	0.4229256	0.67817250	0.6256482
##	[232,]	0.8561814	0.5156472	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[233,]	0.8561814	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[234,]	1.5649873	1.3502685	0.6468366	1.2507450	0.67817250	-0.1151545
##	[235,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[236,]	-1.2702363	-1.1535953	0.6468366	-0.4048938	-1.60500825	0.6256482
##	[237,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-0.08288775	1.3664509

##	[238,]	0.1473755	-1.1535953	0.6468366	1.2507450	-0.84394800	-0.1151545
##	[239,]	1.5649873	0.5156472	0.6468366	1.2507450	-0.08288775	0.6256482
##	[240,]	-1.2702363	-0.3189741	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[241,]	0.1473755	-0.3189741	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[242,]	0.1473755	-0.3189741	-0.6366702	0.4229256	0.67817250	1.3664509
##	[243,]	-1.2702363	1.3502685	0.6468366	0.4229256	0.67817250	-0.8559571
##	[244,]	-0.5614304	0.5156472	-3.2036837	-1.2327132	0.67817250	0.6256482
##	[245,]	1.5649873	1.3502685	0.6468366	0.4229256	-0.84394800	-1.5967598
##	[246,]	1.5649873	0.5156472	0.6468366	-0.4048938	-0.84394800	-1.5967598
##	[247,]	0.8561814	0.5156472	0.6468366	0.4229256	1.43923275	1.3664509
##	[248,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-0.84394800	-0.1151545
##	[249,]	0.8561814	0.5156472	0.6468366	1.2507450	0.67817250	-0.1151545
##	[250,]	0.8561814	0.5156472	0.6468366	-0.4048938	1.43923275	-0.1151545
##	[251,]	0.1473755	1.3502685	0.6468366	1.2507450	0.67817250	-0.8559571
##	[252,]	1.5649873	0.5156472	0.6468366	1.2507450	1.43923275	-0.1151545
##	[253,]	-0.5614304	-1.1535953	0.6468366	1.2507450	0.67817250	0.6256482
##	[254,]	1.5649873	1.3502685	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[255,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-1.60500825	1.3664509
##	[256,]	-1.2702363	-0.3189741	-0.6366702	0.4229256	-0.84394800	-1.5967598
##	[257,]	-0.5614304	-1.1535953	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[258,]	0.1473755	0.5156472	0.6468366	-0.4048938	1.43923275	1.3664509
##	[259,]	0.8561814	1.3502685	0.6468366	-1.2327132	1.43923275	-0.1151545
##	[260,]	-1.2702363	-1.9882166	0.6468366	-2.0605326	-1.60500825	0.6256482
##	[261,]	0.1473755	-0.3189741	-1.9201769	-0.4048938	-0.08288775	-0.1151545
##	[262,]	1.5649873	0.5156472	0.6468366	1.2507450	0.67817250	-1.5967598
##	[263,]	-1.2702363	-1.1535953	-1.9201769	-0.4048938	-0.08288775	-0.1151545
##	[264,]	0.8561814	-1.1535953	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[265,]	1.5649873	1.3502685	0.6468366	0.4229256	0.67817250	1.3664509
##	[266,]	0.1473755	-0.3189741	0.6468366	1.2507450	0.67817250	-0.8559571
##	[267,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[268,]	-0.5614304	-0.3189741	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[269,]	-1.2702363	-1.9882166	0.6468366	1.2507450	0.67817250	-0.8559571
##	[270,]	0.8561814	0.5156472	-0.6366702	-0.4048938	-0.08288775	0.6256482
##	[271,]	0.1473755	-0.3189741	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[272,]	0.8561814	-0.3189741	-0.6366702	-1.2327132	-1.60500825	1.3664509
##	[273,]	0.1473755	-1.1535953	0.6468366	-1.2327132	-0.84394800	0.6256482
##	[274,]	0.1473755	1.3502685	-0.6366702	1.2507450	0.67817250	1.3664509
##	[275,]	0.1473755	-0.3189741	0.6468366	0.4229256	-1.60500825	-0.8559571
##	[276,]	0.8561814	-0.3189741	0.6468366	0.4229256	1.43923275	-0.1151545
##	[277,]	0.8561814	0.5156472	0.6468366	0.4229256	1.43923275	0.6256482
##	[278,]	1.5649873	0.5156472	0.6468366	0.4229256	1.43923275	1.3664509
##	[279,]	0.8561814	0.5156472	0.6468366	-1.2327132	1.43923275	-0.1151545
##	[280,]	0.1473755	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[281,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[282,]	-1.2702363	0.5156472	0.6468366	-1.2327132	-0.08288775	-0.1151545
##	[283,]	0.1473755	0.5156472	0.6468366	-1.2327132	-1.60500825	-1.5967598
##	[284,]	-0.5614304	0.5156472	-0.6366702	0.4229256	-0.08288775	0.6256482
##	[285,]	0.8561814	0.5156472	-0.6366702	-1.2327132	1.43923275	1.3664509
##	[286,]	0.1473755	0.5156472	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[287,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.08288775	0.6256482

##	[288,]	0.1473755	-0.3189741	-0.6366702	0.4229256	-0.84394800	-0.1151545
##	[289,]	1.5649873	1.3502685	0.6468366	-0.4048938	-1.60500825	1.3664509
##	[290,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	-0.84394800	0.6256482
##	[291,]	-0.5614304	0.5156472	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[292,]	-0.5614304	0.5156472	-0.6366702	0.4229256	0.67817250	-0.1151545
##	[293,]	-0.5614304	0.5156472	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[294,]	-1.2702363	-1.9882166	0.6468366	0.4229256	1.43923275	0.6256482
##	[295,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	-0.84394800	-0.1151545
##	[296,]	0.1473755	1.3502685	-1.9201769	0.4229256	-0.84394800	1.3664509
##	[297,]	1.5649873	1.3502685	0.6468366	-2.0605326	0.67817250	0.6256482
##	[298,]	-0.5614304	-1.1535953	-0.6366702	-0.4048938	0.67817250	-0.8559571
##	[299,]	-0.5614304	-1.1535953	0.6468366	0.4229256	-0.84394800	1.3664509
##	[300,]	1.5649873	1.3502685	0.6468366	-0.4048938	-1.60500825	-0.1151545
##	[301,]	-0.5614304	0.5156472	-4.4871904	-0.4048938	1.43923275	0.6256482
##	[302,]	-1.2702363	-0.3189741	-0.6366702	-1.2327132	0.67817250	1.3664509
##	[303,]	0.1473755	0.5156472	0.6468366	0.4229256	-1.60500825	-1.5967598
##	[304,]	-1.2702363	-0.3189741	0.6468366	0.4229256	-1.60500825	-0.1151545
##	[305,]	-1.2702363	-0.3189741	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[306,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-0.84394800	0.6256482
##	[307,]	0.1473755	-1.9882166	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[308,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	0.67817250	-1.5967598
##	[309,]	0.1473755	0.5156472	-0.6366702	0.4229256	1.43923275	0.6256482
##	[310,]	1.5649873	1.3502685	-1.9201769	-1.2327132	-0.08288775	-0.8559571
##	[311,]	0.1473755	0.5156472	-1.9201769	-0.4048938	-0.08288775	-0.8559571
##	[312,]	0.8561814	0.5156472	0.6468366	0.4229256	1.43923275	-0.1151545
##	[313,]	0.8561814	0.5156472	-0.6366702	-0.4048938	0.67817250	1.3664509
##	[314,]	0.8561814	0.5156472	0.6468366	0.4229256	1.43923275	-0.1151545
##	[315,]	0.8561814	0.5156472	0.6468366	1.2507450	1.43923275	1.3664509
##	[316,]	-1.2702363	-0.3189741	-0.6366702	-2.0605326	-0.84394800	1.3664509
##	[317,]	-0.5614304	-0.3189741	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[318,]	1.5649873	1.3502685	0.6468366	-2.0605326	1.43923275	1.3664509
##	[319,]	0.1473755	0.5156472	-0.6366702	1.2507450	1.43923275	-0.1151545
##	[320,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.08288775	0.6256482
##	[321,]	-0.5614304	0.5156472	0.6468366	-1.2327132	-0.08288775	0.6256482
##	[322,]	1.5649873	1.3502685	0.6468366	0.4229256	-0.84394800	-0.1151545
##	[323,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.84394800	-0.1151545
##	[324,]	-0.5614304	0.5156472	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[325,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[326,]	-1.2702363	-1.1535953	-0.6366702	-0.4048938	-0.08288775	0.6256482
##	[327,]	1.5649873	0.5156472	0.6468366	1.2507450	0.67817250	1.3664509
##	[328,]	0.1473755	0.5156472	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[329,]	0.8561814	1.3502685	0.6468366	1.2507450	0.67817250	1.3664509
##	[330,]	0.8561814	1.3502685	-0.6366702	0.4229256	-0.84394800	0.6256482
##	[331,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	0.67817250	-0.8559571
##	[332,]	-0.5614304	-1.9882166	0.6468366	-0.4048938	-0.08288775	1.3664509
##	[333,]	0.1473755	-1.9882166	0.6468366	1.2507450	-1.60500825	-0.8559571
##	[334,]	-0.5614304	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[335,]	0.8561814	1.3502685	0.6468366	-1.2327132	-1.60500825	1.3664509
##	[336,]	1.5649873	0.5156472	0.6468366	-0.4048938	0.67817250	1.3664509
##	[337,]	1.5649873	0.5156472	0.6468366	-0.4048938	0.67817250	-1.5967598

##	[338,]	-0.5614304	-1.1535953	0.6468366	-2.0605326	-0.84394800	1.3664509
##	[339,]	0.8561814	-0.3189741	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[340,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[341,]	-0.5614304	-1.1535953	-0.6366702	0.4229256	0.67817250	1.3664509
##	[342,]	1.5649873	1.3502685	0.6468366	-2.0605326	0.67817250	1.3664509
##	[343,]	-1.2702363	-1.1535953	0.6468366	-0.4048938	1.43923275	-0.8559571
##	[344,]	-0.5614304	1.3502685	-0.6366702	-0.4048938	-1.60500825	-0.8559571
##	[345,]	-1.2702363	-1.1535953	0.6468366	0.4229256	-1.60500825	-1.5967598
##	[346,]	-1.2702363	-0.3189741	0.6468366	-0.4048938	1.43923275	0.6256482
##	[347,]	0.1473755	0.5156472	0.6468366	-0.4048938	0.67817250	-0.1151545
##	[348,]	-1.2702363	-0.3189741	0.6468366	-1.2327132	0.67817250	-0.1151545
##	[349,]	-1.2702363	-1.9882166	0.6468366	-1.2327132	-0.08288775	-1.5967598
##	[350,]	1.5649873	1.3502685	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[351,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	1.43923275	-0.1151545
##	[352,]	0.8561814	0.5156472	0.6468366	1.2507450	-0.84394800	-0.1151545
##	[353,]	-0.5614304	1.3502685	0.6468366	-0.4048938	-0.08288775	1.3664509
##	[354,]	0.8561814	0.5156472	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[355,]	-1.2702363	0.5156472	-0.6366702	1.2507450	-0.08288775	0.6256482
##	[356,]	-0.5614304	0.5156472	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[357,]	0.1473755	-1.1535953	0.6468366	-1.2327132	1.43923275	-0.1151545
##	[358,]	-0.5614304	-1.1535953	0.6468366	0.4229256	0.67817250	0.6256482
##	[359,]	-0.5614304	-1.1535953	0.6468366	-0.4048938	-0.08288775	1.3664509
##	[360,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[361,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-1.60500825	-0.8559571
##	[362,]	1.5649873	0.5156472	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[363,]	-0.5614304	1.3502685	-3.2036837	-0.4048938	0.67817250	-0.1151545
##	[364,]	-1.2702363	0.5156472	-3.2036837	-0.4048938	0.67817250	-0.1151545
##	[365,]	-0.5614304	0.5156472	-1.9201769	-1.2327132	-1.60500825	0.6256482
##	[366,]	-1.2702363	1.3502685	-3.2036837	-1.2327132	-1.60500825	1.3664509
##	[367,]	1.5649873	1.3502685	0.6468366	-1.2327132	1.43923275	0.6256482
##	[368,]	-0.5614304	0.5156472	0.6468366	0.4229256	1.43923275	1.3664509
##	[369,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	-0.1151545
##	[370,]	1.5649873	1.3502685	-1.9201769	-0.4048938	-0.08288775	1.3664509
##	[371,]	-1.2702363	0.5156472	0.6468366	-0.4048938	-1.60500825	-0.1151545
##	[372,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[373,]	0.1473755	-0.3189741	-0.6366702	-0.4048938	1.43923275	0.6256482
##	[374,]	-0.5614304	0.5156472	0.6468366	0.4229256	1.43923275	-0.1151545
##	[375,]	0.1473755	0.5156472	0.6468366	1.2507450	-0.84394800	0.6256482
##	[376,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[377,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[378,]	1.5649873	1.3502685	0.6468366	-0.4048938	-1.60500825	-0.1151545
##	[379,]	1.5649873	0.5156472	0.6468366	-0.4048938	-0.84394800	-1.5967598
##	[380,]	0.1473755	0.5156472	0.6468366	-0.4048938	0.67817250	0.6256482
##	[381,]	0.8561814	-0.3189741	-0.6366702	-0.4048938	-0.84394800	-1.5967598
##	[382,]	-1.2702363	1.3502685	-0.6366702	-0.4048938	0.67817250	-0.1151545
##	[383,]	0.8561814	-1.1535953	0.6468366	1.2507450	-0.84394800	0.6256482
##	[384,]	1.5649873	1.3502685	0.6468366	0.4229256	-0.84394800	-1.5967598
##	[385,]	-1.2702363	-1.9882166	-1.9201769	-0.4048938	-1.60500825	-1.5967598
##	[386,]	0.1473755	-0.3189741	0.6468366	1.2507450	1.43923275	0.6256482
##	[387,]	0.1473755	-0.3189741	0.6468366	-0.4048938	1.43923275	-0.8559571

##	[388,]	1.5649873	1.3502685	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[389,]	0.1473755	1.3502685	-0.6366702	0.4229256	-0.84394800	1.3664509
##	[390,]	0.1473755	-0.3189741	-0.6366702	0.4229256	-0.08288775	-0.1151545
##	[391,]	-1.2702363	-1.9882166	-0.6366702	-0.4048938	-0.08288775	-0.8559571
##	[392,]	-0.5614304	-1.1535953	-0.6366702	0.4229256	-0.08288775	-0.1151545
##	[393,]	0.8561814	1.3502685	-0.6366702	0.4229256	-0.84394800	-0.1151545
##	[394,]	1.5649873	0.5156472	-1.9201769	-2.0605326	1.43923275	1.3664509
##	[395,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	-1.60500825	-0.8559571
##	[396,]	0.8561814	0.5156472	-1.9201769	-1.2327132	1.43923275	1.3664509
##	[397,]	-0.5614304	-1.1535953	-0.6366702	0.4229256	0.67817250	-1.5967598
##	[398,]	0.1473755	-0.3189741	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[399,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[400,]	0.8561814	1.3502685	0.6468366	0.4229256	0.67817250	-0.8559571
##	[401,]	-0.5614304	-0.3189741	-0.6366702	-1.2327132	0.67817250	0.6256482
##	[402,]	-0.5614304	-1.9882166	0.6468366	-1.2327132	-1.60500825	-0.1151545
##	[403,]	0.8561814	0.5156472	0.6468366	-1.2327132	-1.60500825	1.3664509
##	[404,]	-0.5614304	-1.1535953	0.6468366	-0.4048938	0.67817250	-0.8559571
##	[405,]	-1.2702363	-1.9882166	0.6468366	1.2507450	1.43923275	-1.5967598
##	[406,]	-1.2702363	-1.9882166	-0.6366702	0.4229256	-1.60500825	-0.1151545
##	[407,]	-1.2702363	-0.3189741	0.6468366	1.2507450	1.43923275	-1.5967598
##	[408,]	0.1473755	-0.3189741	0.6468366	-0.4048938	-0.84394800	0.6256482
##	[409,]	1.5649873	0.5156472	0.6468366	1.2507450	-0.84394800	-0.1151545
##	[410,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[411,]	1.5649873	1.3502685	0.6468366	-2.0605326	1.43923275	1.3664509
##	[412,]	-1.2702363	-0.3189741	-0.6366702	1.2507450	-0.84394800	-0.1151545
##	[413,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	-1.60500825	-1.5967598
##	[414,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	-0.08288775	1.3664509
##	[415,]	0.8561814	-0.3189741	-0.6366702	0.4229256	-0.08288775	-0.8559571
##	[416,]	1.5649873	1.3502685	0.6468366	0.4229256	-1.60500825	-0.1151545
##	[417,]	0.1473755	-0.3189741	-0.6366702	1.2507450	-0.84394800	-0.1151545
##	[418,]	1.5649873	1.3502685	-1.9201769	-2.0605326	-0.08288775	0.6256482
##	[419,]	-1.2702363	1.3502685	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[420,]	-1.2702363	-1.1535953	-3.2036837	-1.2327132	-0.84394800	1.3664509
##	[421,]	-1.2702363	-0.3189741	0.6468366	-2.0605326	-0.84394800	-0.1151545
##	[422,]	-1.2702363	-1.1535953	0.6468366	1.2507450	1.43923275	1.3664509
##	[423,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[424,]	0.8561814	1.3502685	-0.6366702	-2.0605326	-1.60500825	-1.5967598
##	[425,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.84394800	1.3664509
##	[426,]	0.8561814	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[427,]	-1.2702363	0.5156472	-0.6366702	-1.2327132	-0.08288775	-0.1151545
##	[428,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	0.67817250	-0.8559571
##	[429,]	-1.2702363	-0.3189741	-0.6366702	1.2507450	-0.08288775	-1.5967598
##	[430,]	0.8561814	1.3502685	-0.6366702	-0.4048938	-0.84394800	-0.8559571
##	[431,]	-1.2702363	-0.3189741	0.6468366	0.4229256	0.67817250	-0.1151545
##	[432,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.08288775	-0.8559571
##	[433,]	1.5649873	0.5156472	-0.6366702	-1.2327132	-0.08288775	-0.1151545
##	[434,]	0.1473755	1.3502685	-0.6366702	-0.4048938	-0.08288775	-0.8559571
##	[435,]	-1.2702363	-0.3189741	-0.6366702	-2.0605326	0.67817250	-0.1151545
##	[436,]	-0.5614304	-1.1535953	-0.6366702	-0.4048938	-0.84394800	-0.8559571
##	[437,]	0.1473755	-0.3189741	0.6468366	0.4229256	0.67817250	-0.1151545

##	[438,]	0.1473755	-0.3189741	-0.6366702	0.4229256	-0.84394800	-0.1151545
##	[439,]	-1.2702363	-1.1535953	-0.6366702	1.2507450	-0.84394800	-0.8559571
##	[440,]	0.1473755	1.3502685	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[441,]	0.1473755	-0.3189741	0.6468366	0.4229256	-0.84394800	-0.1151545
##	[442,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[443,]	1.5649873	0.5156472	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[444,]	0.1473755	0.5156472	-0.6366702	-1.2327132	1.43923275	0.6256482
##	[445,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	-0.08288775	-0.1151545
##	[446,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[447,]	0.8561814	-0.3189741	0.6468366	-2.0605326	-0.08288775	-0.1151545
##	[448,]	-0.5614304	-1.1535953	-0.6366702	0.4229256	-1.60500825	-1.5967598
##	[449,]	0.1473755	0.5156472	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[450,]	1.5649873	1.3502685	0.6468366	0.4229256	-0.84394800	-1.5967598
##	[451,]	0.8561814	1.3502685	0.6468366	-0.4048938	1.43923275	-0.1151545
##	[452,]	-0.5614304	0.5156472	-0.6366702	0.4229256	-0.84394800	0.6256482
##	[453,]	0.1473755	1.3502685	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[454,]	1.5649873	1.3502685	0.6468366	0.4229256	-0.84394800	-1.5967598
##	[455,]	1.5649873	1.3502685	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[456,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[457,]	0.1473755	-0.3189741	0.6468366	-2.0605326	-0.84394800	-0.8559571
##	[458,]	-0.5614304	0.5156472	0.6468366	-0.4048938	1.43923275	1.3664509
##	[459,]	-1.2702363	-1.9882166	0.6468366	1.2507450	1.43923275	-1.5967598
##	[460,]	-1.2702363	-1.1535953	0.6468366	0.4229256	-1.60500825	-0.8559571
##	[461,]	1.5649873	1.3502685	0.6468366	-1.2327132	-0.84394800	-0.1151545
##	[462,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-0.84394800	-0.1151545
##	[463,]	-0.5614304	-0.3189741	0.6468366	0.4229256	-0.08288775	0.6256482
##	[464,]	-1.2702363	-1.9882166	-0.6366702	1.2507450	-1.60500825	-1.5967598
##	[465,]	-1.2702363	0.5156472	-0.6366702	1.2507450	-1.60500825	-0.1151545
##	[466,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[467,]	0.1473755	-0.3189741	-1.9201769	-0.4048938	-0.08288775	-0.1151545
##	[468,]	-0.5614304	-1.1535953	0.6468366	0.4229256	-0.84394800	-1.5967598
##	[469,]	0.8561814	-0.3189741	-0.6366702	-0.4048938	-0.08288775	-0.1151545
##	[470,]	1.5649873	1.3502685	0.6468366	-0.4048938	0.67817250	-0.1151545
##	[471,]	1.5649873	1.3502685	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[472,]	-0.5614304	0.5156472	0.6468366	-0.4048938	1.43923275	0.6256482
##	[473,]	1.5649873	0.5156472	0.6468366	-1.2327132	-0.84394800	-0.8559571
##	[474,]	-1.2702363	-1.1535953	-0.6366702	-0.4048938	-1.60500825	-1.5967598
##	[475,]	0.1473755	-0.3189741	0.6468366	-0.4048938	-0.08288775	-1.5967598
##	[476,]	0.8561814	-0.3189741	0.6468366	1.2507450	-0.84394800	-0.1151545
##	[477,]	-1.2702363	-1.1535953	0.6468366	0.4229256	-1.60500825	-1.5967598
##	[478,]	0.8561814	0.5156472	-0.6366702	-0.4048938	0.67817250	-0.8559571
##	[479,]	0.8561814	0.5156472	-1.9201769	-2.0605326	0.67817250	0.6256482
##	[480,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.08288775	-0.8559571
##	[481,]	-0.5614304	0.5156472	0.6468366	1.2507450	1.43923275	-0.8559571
##	[482,]	-1.2702363	0.5156472	-1.9201769	-1.2327132	0.67817250	0.6256482
##	[483,]	-1.2702363	0.5156472	0.6468366	0.4229256	0.67817250	-0.8559571
##	[484,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[485,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	0.67817250	-0.1151545
##	[486,]	-0.5614304	0.5156472	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[487,]	-0.5614304	1.3502685	0.6468366	0.4229256	-0.08288775	-0.1151545

##	[488,]	1.5649873	-1.9882166	0.6468366	1.2507450	1.43923275	-1.5967598
##	[489,]	0.8561814	0.5156472	-0.6366702	-1.2327132	0.67817250	0.6256482
##	[490,]	0.1473755	1.3502685	0.6468366	-1.2327132	-1.60500825	1.3664509
##	[491,]	-0.5614304	-1.1535953	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[492,]	0.8561814	0.5156472	0.6468366	0.4229256	0.67817250	-0.8559571
##	[493,]	-1.2702363	-1.1535953	-1.9201769	1.2507450	-0.84394800	1.3664509
##	[494,]	0.1473755	1.3502685	-0.6366702	-1.2327132	-0.08288775	0.6256482
##	[495,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[496,]	-1.2702363	1.3502685	-0.6366702	-0.4048938	-0.08288775	-0.8559571
##	[497,]	0.1473755	0.5156472	-0.6366702	0.4229256	-0.84394800	-0.8559571
##	[498,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[499,]	-1.2702363	-1.9882166	-0.6366702	-0.4048938	-0.84394800	0.6256482
##	[500,]	-0.5614304	0.5156472	0.6468366	-1.2327132	0.67817250	1.3664509
##	[501,]	0.1473755	-0.3189741	0.6468366	1.2507450	1.43923275	1.3664509
##	[502,]	0.8561814	1.3502685	-1.9201769	1.2507450	-1.60500825	1.3664509
##	[503,]	0.1473755	1.3502685	-0.6366702	-1.2327132	1.43923275	1.3664509
##	[504,]	-0.5614304	-1.9882166	0.6468366	1.2507450	1.43923275	-0.1151545
##	[505,]	1.5649873	0.5156472	0.6468366	-0.4048938	0.67817250	1.3664509
##	[506,]	-0.5614304	0.5156472	0.6468366	-0.4048938	0.67817250	-0.1151545
##	[507,]	-1.2702363	1.3502685	0.6468366	-1.2327132	-0.08288775	-0.1151545
##	[508,]	-0.5614304	-0.3189741	-1.9201769	-1.2327132	0.67817250	-1.5967598
##	[509,]	-0.5614304	0.5156472	-0.6366702	-1.2327132	-0.08288775	-0.1151545
##	[510,]	0.1473755	-1.1535953	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[511,]	-0.5614304	-0.3189741	-0.6366702	0.4229256	0.67817250	0.6256482
##	[512,]	0.1473755	-0.3189741	0.6468366	0.4229256	0.67817250	-0.8559571
##	[513,]	-1.2702363	-1.1535953	0.6468366	1.2507450	1.43923275	-1.5967598
##	[514,]	0.1473755	1.3502685	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[515,]	0.1473755	0.5156472	0.6468366	-0.4048938	-0.08288775	1.3664509
##	[516,]	1.5649873	0.5156472	0.6468366	-2.0605326	0.67817250	0.6256482
##	[517,]	1.5649873	1.3502685	0.6468366	-2.0605326	1.43923275	1.3664509
##	[518,]	0.8561814	1.3502685	-1.9201769	-1.2327132	-1.60500825	-1.5967598
##	[519,]	-1.2702363	-1.1535953	0.6468366	-0.4048938	-0.08288775	-0.8559571
##	[520,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	-0.08288775	1.3664509
##	[521,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[522,]	0.1473755	1.3502685	0.6468366	0.4229256	-1.60500825	-1.5967598
##	[523,]	-1.2702363	-1.1535953	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[524,]	0.8561814	0.5156472	0.6468366	1.2507450	-0.84394800	1.3664509
##	[525,]	0.1473755	0.5156472	-1.9201769	-0.4048938	-0.08288775	-0.1151545
##	[526,]	0.1473755	0.5156472	0.6468366	-0.4048938	-0.84394800	-0.8559571
##	[527,]	1.5649873	0.5156472	0.6468366	-0.4048938	0.67817250	0.6256482
##	[528,]	1.5649873	0.5156472	-1.9201769	-1.2327132	0.67817250	0.6256482
##	[529,]	-0.5614304	1.3502685	0.6468366	-1.2327132	1.43923275	-0.1151545
##	[530,]	-1.2702363	-1.1535953	-1.9201769	-1.2327132	-0.84394800	-0.1151545
##	[531,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	-0.08288775	-1.5967598
##	[532,]	-0.5614304	-1.9882166	-0.6366702	0.4229256	-0.08288775	0.6256482
##	[533,]	0.8561814	-0.3189741	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[534,]	0.1473755	-0.3189741	-0.6366702	-0.4048938	-0.08288775	-0.1151545
##	[535,]	-1.2702363	0.5156472	0.6468366	1.2507450	1.43923275	-1.5967598
##	[536,]	0.8561814	0.5156472	0.6468366	1.2507450	1.43923275	1.3664509
##	[537,]	1.5649873	1.3502685	0.6468366	-0.4048938	-1.60500825	-0.1151545

##	[538,]	-0.5614304	0.5156472	-1.9201769	0.4229256	-1.60500825	0.6256482
##	[539,]	0.1473755	0.5156472	0.6468366	0.4229256	0.67817250	-0.1151545
##	[540,]	-0.5614304	1.3502685	-3.2036837	-2.0605326	1.43923275	1.3664509
##	[541,]	0.1473755	1.3502685	-0.6366702	0.4229256	1.43923275	1.3664509
##	[542,]	0.1473755	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[543,]	0.1473755	-0.3189741	-0.6366702	0.4229256	0.67817250	0.6256482
##	[544,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[545,]	-1.2702363	0.5156472	-4.4871904	-1.2327132	0.67817250	0.6256482
##	[546,]	1.5649873	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[547,]	1.5649873	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[548,]	0.1473755	1.3502685	0.6468366	-1.2327132	-0.84394800	0.6256482
##	[549,]	-1.2702363	-1.9882166	-0.6366702	0.4229256	-0.84394800	-0.1151545
##	[550,]	-0.5614304	-1.1535953	0.6468366	-1.2327132	-1.60500825	-0.1151545
##	[551,]	-1.2702363	-0.3189741	-0.6366702	-0.4048938	1.43923275	-0.1151545
##	[552,]	-1.2702363	-1.1535953	0.6468366	0.4229256	-0.08288775	0.6256482
##	[553,]	-0.5614304	0.5156472	0.6468366	1.2507450	-1.60500825	1.3664509
##	[554,]	-0.5614304	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[555,]	-1.2702363	-1.1535953	-0.6366702	0.4229256	-0.84394800	-0.1151545
##	[556,]	-0.5614304	0.5156472	0.6468366	1.2507450	-1.60500825	-0.8559571
##	[557,]	0.1473755	-1.1535953	-0.6366702	0.4229256	-0.84394800	-0.8559571
##	[558,]	0.1473755	0.5156472	0.6468366	1.2507450	1.43923275	-0.8559571
##	[559,]	-1.2702363	-1.1535953	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[560,]	0.8561814	1.3502685	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[561,]	-1.2702363	-1.1535953	0.6468366	1.2507450	0.67817250	-0.1151545
##	[562,]	0.1473755	0.5156472	0.6468366	-1.2327132	1.43923275	1.3664509
##	[563,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[564,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.08288775	1.3664509
##	[565,]	-1.2702363	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[566,]	0.1473755	1.3502685	0.6468366	1.2507450	1.43923275	-0.1151545
##	[567,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.84394800	0.6256482
##	[568,]	0.8561814	-0.3189741	0.6468366	-0.4048938	-0.84394800	-0.1151545
##	[569,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[570,]	-0.5614304	-1.1535953	0.6468366	1.2507450	0.67817250	-0.1151545
##	[571,]	0.8561814	-1.1535953	0.6468366	-0.4048938	-1.60500825	1.3664509
##	[572,]	1.5649873	-1.1535953	-1.9201769	0.4229256	1.43923275	-0.8559571
##	[573,]	-1.2702363	-0.3189741	0.6468366	0.4229256	-1.60500825	-1.5967598
##	[574,]	-1.2702363	-0.3189741	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[575,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[576,]	-0.5614304	-1.1535953	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[577,]	0.1473755	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[578,]	0.8561814	0.5156472	-0.6366702	1.2507450	0.67817250	-0.8559571
##	[579,]	0.1473755	-0.3189741	0.6468366	1.2507450	1.43923275	-0.8559571
##	[580,]	0.1473755	1.3502685	0.6468366	-0.4048938	1.43923275	-0.8559571
##	[581,]	-0.5614304	-0.3189741	0.6468366	-2.0605326	1.43923275	-0.1151545
##	[582,]	-0.5614304	0.5156472	0.6468366	-1.2327132	-1.60500825	-1.5967598
##	[583,]	0.8561814	-0.3189741	-1.9201769	-1.2327132	0.67817250	0.6256482
##	[584,]	0.8561814	1.3502685	0.6468366	-0.4048938	1.43923275	-0.8559571
##	[585,]	-1.2702363	0.5156472	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[586,]	-1.2702363	0.5156472	0.6468366	1.2507450	0.67817250	1.3664509
##	[587,]	-1.2702363	1.3502685	-3.2036837	-0.4048938	1.43923275	0.6256482

##	[588,]	1.5649873	-0.3189741	-1.9201769	-0.4048938	0.67817250	1.3664509
##	[589,]	0.1473755	-0.3189741	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[590,]	0.1473755	0.5156472	0.6468366	0.4229256	-0.08288775	1.3664509
##	[591,]	0.8561814	0.5156472	-0.6366702	-1.2327132	1.43923275	0.6256482
##	[592,]	-1.2702363	-1.9882166	0.6468366	-1.2327132	0.67817250	-0.8559571
##	[593,]	-1.2702363	0.5156472	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[594,]	0.8561814	0.5156472	0.6468366	-0.4048938	-1.60500825	-0.1151545
##	[595,]	-0.5614304	-0.3189741	-3.2036837	-0.4048938	-0.08288775	-0.1151545
##	[596,]	1.5649873	-0.3189741	0.6468366	-2.0605326	0.67817250	1.3664509
##	[597,]	0.8561814	0.5156472	-0.6366702	0.4229256	0.67817250	-0.1151545
##	[598,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.08288775	-0.1151545
##	[599,]	0.1473755	0.5156472	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[600,]	0.8561814	1.3502685	0.6468366	-0.4048938	0.67817250	1.3664509
##	[601,]	-1.2702363	-1.9882166	-0.6366702	0.4229256	-1.60500825	0.6256482
##	[602,]	-1.2702363	-1.1535953	-1.9201769	0.4229256	-1.60500825	-0.8559571
##	[603,]	1.5649873	0.5156472	0.6468366	-0.4048938	1.43923275	0.6256482
##	[604,]	-0.5614304	-1.1535953	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[605,]	1.5649873	1.3502685	0.6468366	1.2507450	0.67817250	-1.5967598
##	[606,]	-1.2702363	0.5156472	0.6468366	-0.4048938	-0.08288775	-1.5967598
##	[607,]	0.1473755	0.5156472	0.6468366	-1.2327132	0.67817250	-0.1151545
##	[608,]	-1.2702363	1.3502685	0.6468366	-0.4048938	-1.60500825	-0.8559571
##	[609,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[610,]	-1.2702363	-1.1535953	0.6468366	0.4229256	-0.08288775	1.3664509
##	[611,]	0.1473755	-0.3189741	0.6468366	0.4229256	1.43923275	-0.1151545
##	[612,]	0.8561814	0.5156472	0.6468366	0.4229256	0.67817250	-0.1151545
##	[613,]	0.8561814	0.5156472	-0.6366702	0.4229256	-0.08288775	1.3664509
##	[614,]	0.8561814	-1.1535953	-0.6366702	-0.4048938	-0.84394800	-0.1151545
##	[615,]	-1.2702363	-0.3189741	0.6468366	1.2507450	0.67817250	-1.5967598
##	[616,]	-0.5614304	-0.3189741	-1.9201769	-0.4048938	1.43923275	-0.8559571
##	[617,]	1.5649873	1.3502685	0.6468366	-2.0605326	0.67817250	1.3664509
##	[618,]	-0.5614304	-1.1535953	-0.6366702	0.4229256	-0.84394800	0.6256482
##	[619,]	1.5649873	1.3502685	0.6468366	-0.4048938	1.43923275	-1.5967598
##	[620,]	-0.5614304	0.5156472	-0.6366702	-1.2327132	-0.84394800	1.3664509
##	[621,]	-0.5614304	-1.1535953	-0.6366702	-2.0605326	-0.84394800	0.6256482
##	[622,]	0.8561814	-0.3189741	0.6468366	0.4229256	1.43923275	-1.5967598
##	[623,]	-1.2702363	-1.1535953	0.6468366	1.2507450	1.43923275	0.6256482
##	[624,]	0.8561814	-0.3189741	0.6468366	-2.0605326	-0.08288775	0.6256482
##	[625,]	0.8561814	-0.3189741	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[626,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[627,]	0.8561814	0.5156472	-0.6366702	0.4229256	-0.84394800	1.3664509
##	[628,]	0.1473755	-1.1535953	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[629,]	0.1473755	0.5156472	-0.6366702	-1.2327132	1.43923275	0.6256482
##	[630,]	0.8561814	0.5156472	0.6468366	0.4229256	-1.60500825	-0.1151545
##	[631,]	0.1473755	-1.9882166	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[632,]	-1.2702363	0.5156472	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[633,]	-0.5614304	-0.3189741	-0.6366702	-1.2327132	-0.84394800	0.6256482
##	[634,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	-0.08288775	-0.8559571
##	[635,]	-1.2702363	-1.1535953	-0.6366702	1.2507450	-0.84394800	-0.1151545
##	[636,]	-1.2702363	0.5156472	-1.9201769	-0.4048938	-0.84394800	-1.5967598
##	[637,]	0.8561814	0.5156472	-4.4871904	1.2507450	-1.60500825	0.6256482

##	[638,]	0.1473755	0.5156472	-0.6366702	-0.4048938	0.67817250	1.3664509
##	[639,]	1.5649873	0.5156472	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[640,]	0.1473755	-0.3189741	0.6468366	-0.4048938	-0.08288775	1.3664509
##	[641,]	-1.2702363	-0.3189741	0.6468366	1.2507450	1.43923275	-0.8559571
##	[642,]	0.1473755	-0.3189741	0.6468366	-0.4048938	1.43923275	1.3664509
##	[643,]	-1.2702363	-0.3189741	-0.6366702	-1.2327132	1.43923275	-1.5967598
##	[644,]	-1.2702363	-1.1535953	0.6468366	1.2507450	0.67817250	-0.8559571
##	[645,]	-0.5614304	-1.1535953	0.6468366	1.2507450	-0.84394800	1.3664509
##	[646,]	-1.2702363	0.5156472	0.6468366	-2.0605326	0.67817250	1.3664509
##	[647,]	0.8561814	0.5156472	0.6468366	-0.4048938	0.67817250	0.6256482
##	[648,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.08288775	0.6256482
##	[649,]	0.1473755	-0.3189741	0.6468366	1.2507450	0.67817250	0.6256482
##	[650,]	0.8561814	-0.3189741	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[651,]	1.5649873	1.3502685	0.6468366	-1.2327132	1.43923275	0.6256482
##	[652,]	0.1473755	0.5156472	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[653,]	-1.2702363	-1.1535953	0.6468366	-1.2327132	0.67817250	1.3664509
##	[654,]	0.8561814	0.5156472	0.6468366	-1.2327132	-0.08288775	-0.1151545
##	[655,]	0.1473755	0.5156472	-0.6366702	0.4229256	-0.84394800	0.6256482
##	[656,]	-1.2702363	-1.1535953	-0.6366702	0.4229256	-0.84394800	-0.1151545
##	[657,]	0.8561814	-0.3189741	-0.6366702	1.2507450	-0.08288775	-0.1151545
##	[658,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[659,]	-0.5614304	-1.1535953	0.6468366	-1.2327132	0.67817250	-1.5967598
##	[660,]	-1.2702363	-1.1535953	0.6468366	0.4229256	1.43923275	1.3664509
##	[661,]	0.8561814	-1.1535953	0.6468366	1.2507450	-0.84394800	-1.5967598
##	[662,]	0.8561814	0.5156472	-0.6366702	-0.4048938	-0.84394800	-0.1151545
##	[663,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[664,]	0.8561814	0.5156472	-0.6366702	-0.4048938	1.43923275	-0.1151545
##	[665,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[666,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-0.84394800	0.6256482
##	[667,]	1.5649873	-0.3189741	0.6468366	0.4229256	1.43923275	-0.8559571
##	[668,]	-0.5614304	-1.1535953	0.6468366	-1.2327132	-0.84394800	-0.8559571
##	[669,]	0.8561814	0.5156472	-3.2036837	-1.2327132	1.43923275	-0.1151545
##	[670,]	0.8561814	0.5156472	-0.6366702	-0.4048938	0.67817250	1.3664509
##	[671,]	0.1473755	0.5156472	-1.9201769	-1.2327132	-0.84394800	0.6256482
##	[672,]	-0.5614304	-1.1535953	0.6468366	1.2507450	0.67817250	-0.1151545
##	[673,]	1.5649873	1.3502685	-0.6366702	0.4229256	-0.84394800	0.6256482
##	[674,]	0.1473755	-0.3189741	-0.6366702	0.4229256	-1.60500825	-0.8559571
##	[675,]	-1.2702363	0.5156472	-0.6366702	-0.4048938	-1.60500825	1.3664509
##	[676,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-0.84394800	1.3664509
##	[677,]	-1.2702363	-1.1535953	-3.2036837	-0.4048938	-1.60500825	-0.8559571
##	[678,]	1.5649873	1.3502685	0.6468366	1.2507450	-0.08288775	1.3664509
##	[679,]	0.8561814	-1.1535953	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[680,]	1.5649873	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[681,]	1.5649873	0.5156472	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[682,]	-1.2702363	0.5156472	-0.6366702	0.4229256	-0.08288775	-0.1151545
##	[683,]	-0.5614304	0.5156472	-0.6366702	-1.2327132	0.67817250	1.3664509
##	[684,]	-1.2702363	-1.9882166	0.6468366	1.2507450	1.43923275	0.6256482
##	[685,]	-0.5614304	0.5156472	0.6468366	0.4229256	-0.84394800	-1.5967598
##	[686,]	-1.2702363	-1.1535953	0.6468366	0.4229256	0.67817250	0.6256482
##	[687,]	0.1473755	-0.3189741	-1.9201769	-0.4048938	-0.08288775	1.3664509

##	[688,]	-0.5614304	-0.3189741	0.6468366	0.4229256	-0.84394800	-0.1151545
##	[689,]	0.1473755	1.3502685	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[690,]	0.1473755	-0.3189741	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[691,]	-0.5614304	0.5156472	-0.6366702	-1.2327132	0.67817250	-0.1151545
##	[692,]	0.1473755	0.5156472	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[693,]	-0.5614304	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[694,]	1.5649873	1.3502685	0.6468366	-1.2327132	-0.84394800	-1.5967598
##	[695,]	0.8561814	1.3502685	0.6468366	-0.4048938	0.67817250	1.3664509
##	[696,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[697,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[698,]	-0.5614304	0.5156472	0.6468366	0.4229256	-0.84394800	1.3664509
##	[699,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-1.60500825	-0.8559571
##	[700,]	-0.5614304	-1.9882166	0.6468366	-0.4048938	-1.60500825	-0.8559571
##	[701,]	0.1473755	-0.3189741	-3.2036837	1.2507450	-1.60500825	0.6256482
##	[702,]	-1.2702363	1.3502685	-1.9201769	0.4229256	1.43923275	1.3664509
##	[703,]	0.1473755	1.3502685	0.6468366	-1.2327132	1.43923275	1.3664509
##	[704,]	1.5649873	1.3502685	-0.6366702	-1.2327132	-0.08288775	1.3664509
##	[705,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[706,]	0.1473755	-0.3189741	0.6468366	0.4229256	0.67817250	0.6256482
##	[707,]	0.8561814	0.5156472	0.6468366	-1.2327132	-0.08288775	1.3664509
##	[708,]	0.1473755	0.5156472	-0.6366702	-0.4048938	-0.84394800	1.3664509
##	[709,]	0.8561814	0.5156472	0.6468366	-0.4048938	0.67817250	-0.8559571
##	[710,]	0.1473755	0.5156472	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[711,]	1.5649873	1.3502685	0.6468366	0.4229256	0.67817250	0.6256482
##	[712,]	-1.2702363	-1.1535953	-3.2036837	0.4229256	-0.84394800	-1.5967598
##	[713,]	0.8561814	0.5156472	0.6468366	1.2507450	0.67817250	-1.5967598
##	[714,]	0.1473755	-0.3189741	-0.6366702	0.4229256	-1.60500825	0.6256482
##	[715,]	-0.5614304	-0.3189741	0.6468366	0.4229256	-0.08288775	-0.1151545
##	[716,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	1.43923275	1.3664509
##	[717,]	0.8561814	0.5156472	-0.6366702	0.4229256	0.67817250	1.3664509
##	[718,]	0.1473755	-0.3189741	-0.6366702	-0.4048938	-0.08288775	-1.5967598
##	[719,]	0.1473755	-0.3189741	0.6468366	-1.2327132	0.67817250	-0.1151545
##	[720,]	0.1473755	1.3502685	-1.9201769	-0.4048938	-0.08288775	1.3664509
##	[721,]	-1.2702363	1.3502685	-0.6366702	0.4229256	-0.08288775	-0.8559571
##	[722,]	-1.2702363	-1.9882166	-0.6366702	-0.4048938	-1.60500825	-1.5967598
##	[723,]	-1.2702363	0.5156472	-1.9201769	-0.4048938	-0.08288775	1.3664509
##	[724,]	-1.2702363	0.5156472	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[725,]	0.1473755	0.5156472	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[726,]	-1.2702363	-1.1535953	-0.6366702	-2.0605326	-0.08288775	0.6256482
##	[727,]	1.5649873	0.5156472	0.6468366	-0.4048938	-0.84394800	0.6256482
##	[728,]	0.1473755	-0.3189741	0.6468366	-0.4048938	-0.84394800	-0.1151545
##	[729,]	1.5649873	-0.3189741	0.6468366	-0.4048938	-1.60500825	1.3664509
##	[730,]	0.1473755	-0.3189741	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[731,]	0.8561814	1.3502685	-1.9201769	1.2507450	1.43923275	1.3664509
##	[732,]	0.8561814	0.5156472	0.6468366	-0.4048938	-1.60500825	0.6256482
##	[733,]	-0.5614304	-1.1535953	0.6468366	0.4229256	0.67817250	-0.8559571
##	[734,]	-1.2702363	-1.9882166	-0.6366702	1.2507450	0.67817250	-0.1151545
##	[735,]	-1.2702363	-0.3189741	-0.6366702	-0.4048938	0.67817250	-0.8559571
##	[736,]	-1.2702363	-1.9882166	-1.9201769	0.4229256	-0.84394800	-0.8559571
##	[737,]	0.1473755	-0.3189741	-0.6366702	0.4229256	0.67817250	0.6256482

##	[738,]	-0.5614304	0.5156472	-1.9201769	0.4229256	-0.08288775	-0.1151545
##	[739,]	1.5649873	1.3502685	0.6468366	-2.0605326	-1.60500825	1.3664509
##	[740,]	1.5649873	0.5156472	0.6468366	-1.2327132	1.43923275	1.3664509
##	[741,]	0.1473755	1.3502685	0.6468366	-1.2327132	0.67817250	1.3664509
##	[742,]	-1.2702363	-1.9882166	-0.6366702	0.4229256	-0.84394800	-1.5967598
##	[743,]	-0.5614304	-0.3189741	0.6468366	0.4229256	-0.08288775	1.3664509
##	[744,]	-1.2702363	-1.9882166	-0.6366702	1.2507450	-0.84394800	-0.8559571
##	[745,]	0.8561814	1.3502685	0.6468366	0.4229256	-1.60500825	1.3664509
##	[746,]	-1.2702363	-1.1535953	0.6468366	-2.0605326	-0.08288775	-0.1151545
##	[747,]	1.5649873	1.3502685	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[748,]	-1.2702363	0.5156472	-1.9201769	-0.4048938	-0.08288775	-0.8559571
##	[749,]	0.8561814	-0.3189741	0.6468366	0.4229256	1.43923275	-0.1151545
##	[750,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	1.43923275	1.3664509
##	[751,]	0.1473755	0.5156472	0.6468366	0.4229256	0.67817250	0.6256482
##	[752,]	-0.5614304	-1.1535953	0.6468366	1.2507450	1.43923275	-1.5967598
##	[753,]	-1.2702363	-1.1535953	-0.6366702	1.2507450	-1.60500825	0.6256482
##	[754,]	-0.5614304	-1.1535953	-0.6366702	-0.4048938	-0.84394800	0.6256482
##	[755,]	0.1473755	0.5156472	-0.6366702	0.4229256	1.43923275	-0.1151545
##	[756,]	0.8561814	1.3502685	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[757,]	1.5649873	1.3502685	0.6468366	-0.4048938	1.43923275	0.6256482
##	[758,]	-1.2702363	-0.3189741	-1.9201769	1.2507450	-1.60500825	1.3664509
##	[759,]	1.5649873	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[760,]	-1.2702363	-0.3189741	0.6468366	1.2507450	1.43923275	-0.1151545
##	[761,]	0.1473755	0.5156472	-0.6366702	0.4229256	0.67817250	-0.1151545
##	[762,]	0.8561814	-0.3189741	0.6468366	-2.0605326	-0.08288775	-0.8559571
##	[763,]	1.5649873	1.3502685	0.6468366	-0.4048938	-0.84394800	-0.1151545
##	[764,]	-0.5614304	-0.3189741	-0.6366702	-0.4048938	0.67817250	0.6256482
##	[765,]	-1.2702363	-1.1535953	0.6468366	0.4229256	-0.84394800	-0.1151545
##	[766,]	0.1473755	-0.3189741	0.6468366	-1.2327132	1.43923275	-0.8559571
##	[767,]	-0.5614304	-0.3189741	-1.9201769	-0.4048938	0.67817250	0.6256482
##	[768,]	0.8561814	0.5156472	-0.6366702	0.4229256	0.67817250	0.6256482
##	[769,]	1.5649873	1.3502685	0.6468366	-0.4048938	-1.60500825	-0.1151545
##	[770,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[771,]	0.8561814	-0.3189741	-1.9201769	-1.2327132	-0.84394800	-1.5967598
##	[772,]	-1.2702363	0.5156472	-1.9201769	-1.2327132	1.43923275	1.3664509
##	[773,]	0.1473755	-0.3189741	0.6468366	0.4229256	0.67817250	-0.1151545
##	[774,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[775,]	-1.2702363	-1.9882166	-0.6366702	-0.4048938	-0.08288775	-0.1151545
##	[776,]	-0.5614304	-0.3189741	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[777,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.08288775	1.3664509
##	[778,]	0.1473755	-0.3189741	-0.6366702	-0.4048938	0.67817250	-0.1151545
##	[779,]	0.1473755	-0.3189741	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[780,]	-1.2702363	-1.9882166	0.6468366	-0.4048938	-1.60500825	-0.1151545
##	[781,]	0.1473755	0.5156472	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[782,]	0.8561814	-1.1535953	-0.6366702	-0.4048938	-0.84394800	-1.5967598
##	[783,]	1.5649873	0.5156472	0.6468366	-0.4048938	1.43923275	-0.1151545
##	[784,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[785,]	-1.2702363	0.5156472	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[786,]	0.1473755	0.5156472	0.6468366	-0.4048938	0.67817250	-0.1151545
##	[787,]	-0.5614304	0.5156472	-0.6366702	0.4229256	1.43923275	1.3664509

##	[788,]	0.1473755	-0.3189741	0.6468366	0.4229256	-0.08288775	1.3664509
##	[789,]	-1.2702363	-0.3189741	-0.6366702	-0.4048938	-0.84394800	-0.1151545
##	[790,]	0.8561814	0.5156472	0.6468366	-0.4048938	1.43923275	-1.5967598
##	[791,]	1.5649873	1.3502685	-0.6366702	-0.4048938	1.43923275	-0.8559571
##	[792,]	-0.5614304	-1.1535953	-1.9201769	-1.2327132	-0.08288775	-1.5967598
##	[793,]	-0.5614304	0.5156472	-0.6366702	0.4229256	-0.84394800	-0.1151545
##	[794,]	1.5649873	1.3502685	0.6468366	-1.2327132	0.67817250	-0.1151545
##	[795,]	1.5649873	1.3502685	0.6468366	-1.2327132	0.67817250	1.3664509
##	[796,]	-0.5614304	0.5156472	-3.2036837	0.4229256	-0.84394800	0.6256482
##	[797,]	0.1473755	0.5156472	-0.6366702	1.2507450	-0.08288775	-0.1151545
##	[798,]	0.1473755	0.5156472	-1.9201769	0.4229256	1.43923275	-0.1151545
##	[799,]	0.8561814	1.3502685	-0.6366702	-2.0605326	-1.60500825	1.3664509
##	[800,]	-1.2702363	-1.9882166	-0.6366702	-0.4048938	0.67817250	0.6256482
##	[801,]	0.8561814	0.5156472	0.6468366	0.4229256	-0.84394800	1.3664509
##	[802,]	0.8561814	0.5156472	0.6468366	-2.0605326	-0.84394800	1.3664509
##	[803,]	0.1473755	-0.3189741	0.6468366	0.4229256	0.67817250	-0.8559571
##	[804,]	0.1473755	0.5156472	0.6468366	0.4229256	-1.60500825	-0.8559571
##	[805,]	1.5649873	0.5156472	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[806,]	-0.5614304	-1.1535953	-1.9201769	-0.4048938	-0.84394800	-0.8559571
##	[807,]	1.5649873	0.5156472	0.6468366	0.4229256	-0.08288775	1.3664509
##	[808,]	-1.2702363	-1.1535953	0.6468366	0.4229256	0.67817250	0.6256482
##	[809,]	1.5649873	1.3502685	0.6468366	-1.2327132	-0.08288775	-0.8559571
##	[810,]	0.1473755	-1.9882166	0.6468366	1.2507450	-0.08288775	1.3664509
##	[811,]	0.1473755	1.3502685	0.6468366	0.4229256	1.43923275	0.6256482
##	[812,]	0.1473755	0.5156472	-0.6366702	-0.4048938	0.67817250	-0.1151545
##	[813,]	-0.5614304	-1.9882166	-0.6366702	0.4229256	-1.60500825	0.6256482
##	[814,]	-0.5614304	-1.9882166	0.6468366	0.4229256	-0.84394800	1.3664509
##	[815,]	0.8561814	-1.1535953	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[816,]	-1.2702363	1.3502685	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[817,]	1.5649873	-1.9882166	0.6468366	0.4229256	0.67817250	1.3664509
##	[818,]	0.1473755	-1.1535953	-0.6366702	1.2507450	-0.08288775	-0.1151545
##	[819,]	1.5649873	1.3502685	0.6468366	-2.0605326	-0.84394800	0.6256482
##	[820,]	-1.2702363	-1.9882166	-0.6366702	-1.2327132	-0.84394800	-0.8559571
##	[821,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[822,]	0.1473755	1.3502685	0.6468366	0.4229256	1.43923275	-0.1151545
##	[823,]	-0.5614304	-1.1535953	-0.6366702	-1.2327132	-0.08288775	-0.1151545
##	[824,]	1.5649873	0.5156472	0.6468366	-0.4048938	-0.84394800	-0.8559571
##	[825,]	-1.2702363	-0.3189741	-0.6366702	-1.2327132	-1.60500825	-1.5967598
##	[826,]	0.8561814	-0.3189741	-1.9201769	-0.4048938	0.67817250	0.6256482
##	[827,]	-0.5614304	-1.1535953	-0.6366702	0.4229256	-1.60500825	-0.1151545
##	[828,]	-1.2702363	-1.1535953	-0.6366702	0.4229256	-0.08288775	-0.8559571
##	[829,]	0.8561814	1.3502685	-0.6366702	-0.4048938	-0.84394800	0.6256482
##	[830,]	0.1473755	0.5156472	0.6468366	-0.4048938	1.43923275	-0.1151545
##	[831,]	0.1473755	-1.1535953	0.6468366	1.2507450	1.43923275	-0.8559571
##	[832,]	1.5649873	1.3502685	0.6468366	0.4229256	0.67817250	0.6256482
##	[833,]	-1.2702363	-1.9882166	-0.6366702	-0.4048938	-0.84394800	-1.5967598
##	[834,]	-0.5614304	-1.1535953	0.6468366	-0.4048938	-0.84394800	-0.8559571
##	[835,]	0.1473755	0.5156472	-0.6366702	-0.4048938	0.67817250	0.6256482
##	[836,]	-1.2702363	-0.3189741	0.6468366	0.4229256	0.67817250	0.6256482
##	[837,]	-0.5614304	-1.1535953	0.6468366	0.4229256	0.67817250	0.6256482

##	[838,]	-1.2702363	-0.3189741	0.6468366	0.4229256	-1.60500825	1.3664509
##	[839,]	1.5649873	0.5156472	0.6468366	-0.4048938	-0.84394800	-1.5967598
##	[840,]	0.8561814	-0.3189741	-0.6366702	0.4229256	-0.08288775	-0.8559571
##	[841,]	0.8561814	1.3502685	-0.6366702	-0.4048938	-1.60500825	-0.8559571
##	[842,]	0.1473755	-0.3189741	0.6468366	-1.2327132	-0.84394800	-0.8559571
##	[843,]	-1.2702363	1.3502685	0.6468366	1.2507450	1.43923275	0.6256482
##	[844,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-0.84394800	1.3664509
##	[845,]	1.5649873	-0.3189741	0.6468366	1.2507450	-1.60500825	0.6256482
##	[846,]	-0.5614304	-1.1535953	0.6468366	1.2507450	0.67817250	0.6256482
##	[847,]	0.1473755	-0.3189741	0.6468366	1.2507450	1.43923275	-0.8559571
##	[848,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[849,]	-1.2702363	-1.1535953	-1.9201769	0.4229256	0.67817250	-0.8559571
##	[850,]	-1.2702363	-0.3189741	-0.6366702	1.2507450	-0.84394800	-0.8559571
##	[851,]	-1.2702363	0.5156472	0.6468366	-1.2327132	-0.08288775	-1.5967598
##	[852,]	1.5649873	1.3502685	0.6468366	1.2507450	-0.84394800	1.3664509
##	[853,]	0.1473755	1.3502685	0.6468366	-1.2327132	1.43923275	1.3664509
##	[854,]	0.1473755	-0.3189741	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[855,]	0.1473755	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[856,]	0.1473755	0.5156472	0.6468366	-0.4048938	0.67817250	0.6256482
##	[857,]	-0.5614304	-0.3189741	-1.9201769	-1.2327132	0.67817250	-0.1151545
##	[858,]	0.8561814	0.5156472	0.6468366	-0.4048938	0.67817250	0.6256482
##	[859,]	0.8561814	0.5156472	0.6468366	-0.4048938	1.43923275	1.3664509
##	[860,]	0.8561814	0.5156472	0.6468366	-2.0605326	-0.84394800	1.3664509
##	[861,]	0.8561814	0.5156472	-0.6366702	-0.4048938	1.43923275	0.6256482
##	[862,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	1.43923275	1.3664509
##	[863,]	1.5649873	0.5156472	0.6468366	0.4229256	-0.08288775	0.6256482
##	[864,]	0.8561814	-0.3189741	0.6468366	-1.2327132	0.67817250	0.6256482
##	[865,]	0.1473755	1.3502685	0.6468366	0.4229256	1.43923275	0.6256482
##	[866,]	0.8561814	0.5156472	-0.6366702	-0.4048938	0.67817250	1.3664509
##	[867,]	-1.2702363	-0.3189741	-0.6366702	-1.2327132	0.67817250	1.3664509
##	[868,]	-1.2702363	-1.1535953	0.6468366	-0.4048938	-0.84394800	-0.8559571
##	[869,]	0.1473755	-1.1535953	0.6468366	1.2507450	-0.84394800	-0.1151545
##	[870,]	-0.5614304	-1.1535953	-0.6366702	0.4229256	-1.60500825	1.3664509
##	[871,]	0.1473755	-0.3189741	-0.6366702	0.4229256	-0.84394800	-0.8559571
##	[872,]	-0.5614304	-0.3189741	0.6468366	0.4229256	-0.84394800	-0.1151545
##	[873,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	0.67817250	-0.1151545
##	[874,]	0.8561814	-0.3189741	0.6468366	-0.4048938	1.43923275	1.3664509
##	[875,]	0.8561814	0.5156472	-0.6366702	0.4229256	-0.84394800	-0.1151545
##	[876,]	-1.2702363	-0.3189741	-1.9201769	-0.4048938	-0.08288775	-0.8559571
##	[877,]	-0.5614304	-0.3189741	0.6468366	0.4229256	1.43923275	1.3664509
##	[878,]	-1.2702363	-0.3189741	-1.9201769	-0.4048938	-1.60500825	1.3664509
##	[879,]	0.8561814	0.5156472	0.6468366	0.4229256	-0.84394800	0.6256482
##	[880,]	1.5649873	1.3502685	0.6468366	-2.0605326	0.67817250	-0.8559571
##	[881,]	0.8561814	0.5156472	-0.6366702	0.4229256	-0.08288775	-0.1151545
##	[882,]	-0.5614304	-1.9882166	0.6468366	1.2507450	-1.60500825	1.3664509
##	[883,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-1.60500825	-1.5967598
##	[884,]	-0.5614304	-0.3189741	0.6468366	1.2507450	1.43923275	-0.8559571
##	[885,]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-1.5967598
##	[886,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	-1.60500825	1.3664509
##	[887,]	1.5649873	1.3502685	-3.2036837	-2.0605326	1.43923275	0.6256482

##	[888,]	0.1473755	-1.1535953	-0.6366702	-1.2327132	-0.08288775	-0.8559571
##	[889,]	0.8561814	1.3502685	0.6468366	1.2507450	-1.60500825	0.6256482
##	[890,]	0.1473755	0.5156472	0.6468366	1.2507450	0.67817250	0.6256482
##	[891,]	-0.5614304	-1.1535953	0.6468366	-0.4048938	1.43923275	0.6256482
##	[892,]	0.1473755	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[893,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-0.84394800	-0.1151545
##	[894,]	0.1473755	-1.1535953	-0.6366702	-0.4048938	-0.84394800	-0.1151545
##	[895,]	-0.5614304	-0.3189741	0.6468366	1.2507450	0.67817250	0.6256482
##	[896,]	0.1473755	-0.3189741	0.6468366	-1.2327132	-0.08288775	-0.1151545
##	[897,]	0.8561814	0.5156472	-1.9201769	-1.2327132	-0.84394800	-0.1151545
##	[898,]	-0.5614304	-0.3189741	-3.2036837	-0.4048938	-0.84394800	0.6256482
##	[899,]	-1.2702363	1.3502685	-1.9201769	-0.4048938	-0.08288775	-0.1151545
##	[900,]	-0.5614304	-0.3189741	-1.9201769	-0.4048938	-0.08288775	-0.1151545
##	[901,]	-0.5614304	0.5156472	0.6468366	1.2507450	0.67817250	0.6256482
##	[902,]	-0.5614304	0.5156472	0.6468366	1.2507450	0.67817250	1.3664509
##	[903,]	0.1473755	-1.1535953	-0.6366702	-1.2327132	-0.08288775	1.3664509
##	[904,]	-0.5614304	-1.1535953	0.6468366	-2.0605326	1.43923275	1.3664509
##	[905,]	-0.5614304	-0.3189741	-0.6366702	1.2507450	-0.08288775	-0.8559571
##	[906,]	0.1473755	0.5156472	0.6468366	0.4229256	1.43923275	1.3664509
##	[907,]	1.5649873	-0.3189741	-1.9201769	-2.0605326	0.67817250	1.3664509
##	[908,]	-0.5614304	-1.1535953	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[909,]	0.1473755	0.5156472	-1.9201769	0.4229256	-0.08288775	-0.8559571
##	[910,]	0.8561814	-1.1535953	-3.2036837	-1.2327132	0.67817250	0.6256482
##	[911,]	-1.2702363	0.5156472	0.6468366	1.2507450	-0.84394800	0.6256482
##	[912,]	-1.2702363	-1.9882166	-0.6366702	0.4229256	-1.60500825	0.6256482
##	[913,]	-0.5614304	-0.3189741	-0.6366702	-0.4048938	-0.84394800	0.6256482
##	[914,]	-0.5614304	-0.3189741	-3.2036837	-1.2327132	-0.84394800	-0.8559571
##	[915,]	-1.2702363	0.5156472	-1.9201769	-1.2327132	0.67817250	0.6256482
##	[916,]	0.8561814	0.5156472	0.6468366	0.4229256	0.67817250	-0.1151545
##	[917,]	-1.2702363	0.5156472	-0.6366702	-1.2327132	-0.84394800	-0.1151545
##	[918,]	0.1473755	0.5156472	-0.6366702	-0.4048938	-0.08288775	0.6256482
##	[919,]	0.1473755	-0.3189741	-0.6366702	-1.2327132	-1.60500825	0.6256482
##	[920,]	1.5649873	-0.3189741	-0.6366702	1.2507450	-0.08288775	-0.1151545
##	[921,]	1.5649873	-0.3189741	-0.6366702	-1.2327132	-0.84394800	-0.1151545
##	[922,]	0.1473755	-1.1535953	-1.9201769	-0.4048938	-0.08288775	-0.8559571
##	[923,]	0.1473755	0.5156472	0.6468366	1.2507450	-1.60500825	-0.8559571
##	[924,]	0.8561814	0.5156472	0.6468366	-0.4048938	-0.84394800	-0.1151545
##	[925,]	0.1473755	1.3502685	0.6468366	-1.2327132	-1.60500825	1.3664509
##	[926,]	0.8561814	0.5156472	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[927,]	0.8561814	0.5156472	-0.6366702	-1.2327132	-0.84394800	-0.8559571
##	[928,]	-0.5614304	-0.3189741	0.6468366	1.2507450	0.67817250	0.6256482
##	[929,]	1.5649873	0.5156472	0.6468366	1.2507450	-0.08288775	-0.8559571
##	[930,]	-0.5614304	0.5156472	-4.4871904	0.4229256	0.67817250	0.6256482
##	[931,]	0.1473755	-1.1535953	0.6468366	1.2507450	-0.84394800	-0.1151545
##	[932,]	0.8561814	0.5156472	-1.9201769	0.4229256	0.67817250	1.3664509
##	[933,]	-1.2702363	-1.9882166	0.6468366	0.4229256	-0.08288775	-1.5967598
##	[934,]	0.1473755	0.5156472	-0.6366702	0.4229256	0.67817250	0.6256482
##	[935,]	1.5649873	1.3502685	-1.9201769	-1.2327132	-0.08288775	-0.8559571
##	[936,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-0.84394800	-0.8559571
##	[937,]	-0.5614304	-0.3189741	-0.6366702	0.4229256	-0.08288775	-0.1151545

##	[938,]	-1.2702363	-0.3189741	0.6468366	1.2507450	0.67817250	-0.8559571
##	[939,]	-1.2702363	1.3502685	-0.6366702	-1.2327132	1.43923275	-1.5967598
##	[940,]	0.8561814	-1.1535953	0.6468366	1.2507450	0.67817250	-1.5967598
##	[941,]	0.8561814	-1.1535953	0.6468366	-0.4048938	1.43923275	1.3664509
##	[942,]	-1.2702363	-1.1535953	-1.9201769	0.4229256	-0.84394800	-0.1151545
##	[943,]	1.5649873	0.5156472	0.6468366	-0.4048938	-0.08288775	0.6256482
##	[944,]	1.5649873	0.5156472	0.6468366	0.4229256	-0.84394800	-0.1151545
##	[945,]	0.8561814	0.5156472	0.6468366	0.4229256	1.43923275	0.6256482
##	[946,]	0.8561814	0.5156472	-0.6366702	-1.2327132	1.43923275	1.3664509
##	[947,]	-1.2702363	0.5156472	-0.6366702	-0.4048938	1.43923275	1.3664509
##	[948,]	-0.5614304	-1.1535953	-1.9201769	0.4229256	-0.08288775	-0.1151545
##	[949,]	0.8561814	-0.3189741	0.6468366	1.2507450	0.67817250	-0.8559571
##	[950,]	1.5649873	0.5156472	0.6468366	-0.4048938	0.67817250	-0.8559571
##	[951,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	1.43923275	-0.1151545
##	[952,]	1.5649873	1.3502685	-0.6366702	-1.2327132	1.43923275	-0.1151545
##	[953,]	-0.5614304	-0.3189741	0.6468366	0.4229256	1.43923275	0.6256482
##	[954,]	-1.2702363	0.5156472	-0.6366702	0.4229256	0.67817250	-0.1151545
##	[955,]	-0.5614304	0.5156472	-0.6366702	1.2507450	-0.84394800	-0.1151545
##	[956,]	-1.2702363	0.5156472	0.6468366	-2.0605326	-0.08288775	-1.5967598
##	[957,]	-0.5614304	-1.1535953	-1.9201769	-0.4048938	0.67817250	0.6256482
##	[958,]	0.8561814	0.5156472	0.6468366	0.4229256	0.67817250	0.6256482
##	[959,]	1.5649873	1.3502685	0.6468366	0.4229256	-0.08288775	-0.8559571
##	[960,]	1.5649873	0.5156472	-0.6366702	-0.4048938	-0.84394800	1.3664509
##	[961,]	-0.5614304	0.5156472	-0.6366702	-0.4048938	0.67817250	-0.1151545
##	[962,]	1.5649873	0.5156472	0.6468366	0.4229256	0.67817250	1.3664509
##	[963,]	0.1473755	0.5156472	-0.6366702	0.4229256	-1.60500825	-1.5967598
##	[964,]	1.5649873	1.3502685	0.6468366	-2.0605326	1.43923275	1.3664509
##	[965,]	0.8561814	0.5156472	-0.6366702	-0.4048938	-0.08288775	-0.1151545
##	[966,]	1.5649873	1.3502685	0.6468366	1.2507450	1.43923275	1.3664509
##	[967,]	1.5649873	-1.9882166	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[968,]	0.8561814	0.5156472	0.6468366	-2.0605326	1.43923275	1.3664509
##	[969,]	0.1473755	-0.3189741	0.6468366	-0.4048938	0.67817250	0.6256482
##	[970,]	0.1473755	0.5156472	0.6468366	0.4229256	0.67817250	1.3664509
##	[971,]	1.5649873	0.5156472	0.6468366	1.2507450	0.67817250	1.3664509
##	[972,]	-0.5614304	-1.1535953	-0.6366702	-1.2327132	0.67817250	-0.8559571
##	[973,]	0.1473755	0.5156472	0.6468366	1.2507450	1.43923275	0.6256482
##	[974,]	1.5649873	-0.3189741	0.6468366	-0.4048938	0.67817250	-0.8559571
##	[975,]	0.1473755	0.5156472	0.6468366	0.4229256	0.67817250	-0.1151545
##	[976,]	0.1473755	0.5156472	-0.6366702	0.4229256	-0.08288775	-0.8559571
##	[977,]	-1.2702363	-0.3189741	0.6468366	1.2507450	-0.08288775	-0.1151545
##	[978,]	0.8561814	1.3502685	-0.6366702	0.4229256	-0.08288775	0.6256482
##	[979,]	-0.5614304	-0.3189741	0.6468366	-0.4048938	-0.08288775	-0.8559571
##	[980,]	-0.5614304	-0.3189741	0.6468366	0.4229256	-0.08288775	1.3664509
##	[981,]	0.1473755	1.3502685	-1.9201769	-0.4048938	-0.84394800	-0.8559571
##	[982,]	1.5649873	1.3502685	-0.6366702	-0.4048938	1.43923275	-0.1151545
##	[983,]	-1.2702363	-1.9882166	-0.6366702	-2.0605326	0.67817250	-0.8559571
##	[984,]	0.8561814	-1.1535953	0.6468366	0.4229256	-1.60500825	-1.5967598
##	[985,]	1.5649873	-1.1535953	-1.9201769	-1.2327132	-1.60500825	-1.5967598
##	[986,]	0.1473755	0.5156472	-0.6366702	1.2507450	-0.84394800	-0.8559571
##	[987,]	-1.2702363	-1.9882166	-1.9201769	-0.4048938	-0.84394800	-0.8559571

##	[988,]	1.5649873	0.5156472	-1.9201769	-2.0605326	-0.08288775	-0.1151545
##	[989,]	0.1473755	1.3502685	0.6468366	-0.4048938	1.43923275	1.3664509
##	[990,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-1.60500825	-0.1151545
##	[991,]	-0.5614304	0.5156472	0.6468366	-1.2327132	-0.08288775	0.6256482
##	[992,]	0.8561814	1.3502685	-0.6366702	-2.0605326	0.67817250	0.6256482
##	[993,]	0.8561814	0.5156472	-0.6366702	-0.4048938	1.43923275	-0.1151545
##	[994,]	-1.2702363	-1.9882166	0.6468366	1.2507450	-1.60500825	-0.8559571
##	[995,]	0.1473755	-0.3189741	-1.9201769	-0.4048938	-0.08288775	-0.1151545
##	[996,]	0.8561814	1.3502685	-0.6366702	-0.4048938	1.43923275	-0.1151545
##	[997,]	-0.5614304	0.5156472	-0.6366702	-2.0605326	-0.08288775	-0.8559571
##	[998,]	1.5649873	-0.3189741	0.6468366	0.4229256	-0.84394800	-0.8559571
##	[999,]	0.8561814	1.3502685	0.6468366	-0.4048938	1.43923275	0.6256482
##	[1000,]	0.8561814	-0.3189741	0.6468366	0.4229256	1.43923275	0.6256482
##	[1001,]	1.5649873	1.3502685	0.6468366	1.2507450	-0.84394800	1.3664509
##	[1002,]	0.8561814	-0.3189741	0.6468366	0.4229256	-1.60500825	-1.5967598
##	[1003,]	1.5649873	0.5156472	-1.9201769	-2.0605326	-0.84394800	-0.8559571
##	[1004,]	0.8561814	0.5156472	0.6468366	0.4229256	0.67817250	-0.1151545
##	[1005,]	0.8561814	0.5156472	0.6468366	-0.4048938	0.67817250	0.6256482
##	[1006,]	-0.5614304	-0.3189741	-0.6366702	1.2507450	0.67817250	-0.8559571
##	[1007,]	-0.5614304	1.3502685	0.6468366	-2.0605326	1.43923275	1.3664509
##	[1008,]	1.5649873	1.3502685	-1.9201769	1.2507450	-0.84394800	-1.5967598
##	[1009,]	0.1473755	0.5156472	0.6468366	-0.4048938	-1.60500825	-0.8559571
##	[1010,]	-0.5614304	-0.3189741	0.6468366	-1.2327132	-0.08288775	-1.5967598
##		Fantasy.Fairy.tales	Animated	Documentary	Western	Action	
##	[1,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572	
##	[2,]	-0.6350171	0.9924396	0.3148943	-0.9910356	0.3768174	
##	[3,]	1.0594802	0.9924396	-1.4471183	-0.1122420	-2.0472944	
##	[4,]	-2.3295144	-1.4663438	1.1959007	-0.9910356	-1.2392572	
##	[5,]	0.2122316	0.1728452	-0.5661120	-0.9910356	0.3768174	
##	[6,]	0.2122316	-0.6467493	-0.5661120	-0.1122420	0.3768174	
##	[7,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572	
##	[8,]	0.2122316	0.1728452	-0.5661120	-0.9910356	-0.4312199	
##	[9,]	0.2122316	0.1728452	1.1959007	-0.9910356	-2.0472944	
##	[10,]	0.2122316	0.1728452	0.3148943	-0.9910356	-1.2392572	
##	[11,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-0.4312199	
##	[12,]	1.0594802	0.9924396	1.1959007	-0.9910356	0.3768174	
##	[13,]	1.0594802	-0.6467493	-0.5661120	-0.9910356	-2.0472944	
##	[14,]	1.0594802	0.1728452	-1.4471183	-0.9910356	-0.4312199	
##	[15,]	1.0594802	0.9924396	-0.5661120	-0.9910356	0.3768174	
##	[16,]	0.2122316	0.1728452	1.1959007	-0.1122420	0.3768174	
##	[17,]	-1.4822657	-1.4663438	0.3148943	-0.9910356	-1.2392572	
##	[18,]	0.2122316	0.1728452	1.1959007	-0.9910356	-0.4312199	
##	[19,]	0.2122316	0.1728452	1.1959007	2.5241391	1.1848546	
##	[20,]	0.2122316	0.1728452	1.1959007	-0.1122420	1.1848546	
##	[21,]	-0.6350171	-0.6467493	-0.5661120	-0.1122420	0.3768174	
##	[22,]	-0.6350171	0.1728452	1.1959007	-0.1122420	1.1848546	
##	[23,]	0.2122316	0.9924396	1.1959007	0.7665517	-0.4312199	
##	[24,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-1.2392572	
##	[25,]	-1.4822657	-1.4663438	-0.5661120	-0.9910356	0.3768174	
##	[26,]	0.2122316	-0.6467493	-0.5661120	-0.9910356	-2.0472944	

##	[27,]	1.0594802	0.9924396	1.1959007	-0.1122420	-2.0472944
##	[28,]	-1.4822657	0.1728452	1.1959007	-0.1122420	1.1848546
##	[29,]	0.2122316	0.1728452	-0.5661120	1.6453454	0.3768174
##	[30,]	1.0594802	0.9924396	0.3148943	-0.1122420	-1.2392572
##	[31,]	-0.6350171	-0.6467493	0.3148943	0.7665517	1.1848546
##	[32,]	1.0594802	0.9924396	0.3148943	-0.9910356	-2.0472944
##	[33,]	1.0594802	0.9924396	-0.5661120	-0.1122420	0.3768174
##	[34,]	1.0594802	0.1728452	1.1959007	-0.1122420	-0.4312199
##	[35,]	-1.4822657	0.9924396	-0.5661120	-0.9910356	1.1848546
##	[36,]	-2.3295144	-2.2859383	-2.3281247	-0.9910356	1.1848546
##	[37,]	1.0594802	0.9924396	-0.5661120	-0.9910356	1.1848546
##	[38,]	-1.4822657	-1.4663438	0.3148943	0.7665517	0.3768174
##	[39,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
##	[40,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
##	[41,]	-1.4822657	-1.4663438	0.3148943	-0.9910356	1.1848546
##	[42,]	-2.3295144	-2.2859383	1.1959007	2.5241391	1.1848546
##	[43,]	1.0594802	0.9924396	0.3148943	0.7665517	1.1848546
##	[44,]	1.0594802	0.9924396	-0.5661120	-0.9910356	0.3768174
##	[45,]	1.0594802	0.1728452	0.3148943	-0.9910356	-0.4312199
##	[46,]	-1.4822657	-2.2859383	1.1959007	-0.1122420	-1.2392572
##	[47,]	-0.6350171	-1.4663438	-2.3281247	-0.9910356	1.1848546
##	[48,]	-0.6350171	0.9924396	-1.4471183	-0.9910356	1.1848546
##	[49,]	-1.4822657	-1.4663438	-0.5661120	-0.9910356	-1.2392572
##	[50,]	1.0594802	-0.6467493	-2.3281247	-0.9910356	0.3768174
##	[51,]	0.2122316	0.1728452	0.3148943	-0.9910356	1.1848546
##	[52,]	1.0594802	0.9924396	0.3148943	0.7665517	1.1848546
##	[53,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[54,]	1.0594802	-0.6467493	-0.5661120	-0.9910356	1.1848546
##	[55,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
##	[56,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-0.4312199
##	[57,]	0.2122316	0.1728452	-0.5661120	0.7665517	-0.4312199
##	[58,]	1.0594802	0.9924396	1.1959007	-0.1122420	0.3768174
##	[59,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	0.3768174
##	[60,]	-0.6350171	-1.4663438	-0.5661120	-0.9910356	-0.4312199
##	[61,]	-0.6350171	-1.4663438	0.3148943	0.7665517	0.3768174
##	[62,]	0.2122316	0.1728452	-1.4471183	-0.1122420	0.3768174
##	[63,]	1.0594802	0.9924396	1.1959007	-0.9910356	1.1848546
##	[64,]	-0.6350171	-0.6467493	0.3148943	0.7665517	0.3768174
##	[65,]	1.0594802	0.9924396	-1.4471183	-0.9910356	-1.2392572
##	[66,]	0.2122316	0.1728452	-0.5661120	-0.1122420	1.1848546
##	[67,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
##	[68,]	0.2122316	-2.2859383	-1.4471183	-0.9910356	-0.4312199
##	[69,]	1.0594802	0.9924396	-1.4471183	-0.9910356	-0.4312199
##	[70,]	-0.6350171	0.9924396	-2.3281247	-0.9910356	-2.0472944
##	[71,]	-1.4822657	-0.6467493	-1.4471183	-0.9910356	-2.0472944
##	[72,]	-0.6350171	0.1728452	-0.5661120	-0.9910356	1.1848546
##	[73,]	1.0594802	0.9924396	0.3148943	-0.1122420	1.1848546
##	[74,]	1.0594802	0.9924396	-0.5661120	0.7665517	1.1848546
##	[75,]	-0.6350171	-2.2859383	0.3148943	2.5241391	1.1848546
##	[76,]	-2.3295144	-1.4663438	0.3148943	1.6453454	0.3768174

##	[77,]	-2.3295144	-1.4663438	-0.5661120	-0.1122420	0.3768174
##	[78,]	1.0594802	0.9924396	1.1959007	-0.1122420	0.3768174
##	[79,]	1.0594802	0.9924396	1.1959007	0.7665517	-0.4312199
##	[80,]	1.0594802	0.9924396	1.1959007	0.7665517	0.3768174
##	[81,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
##	[82,]	1.0594802	0.1728452	0.3148943	0.7665517	1.1848546
##	[83,]	1.0594802	0.9924396	1.1959007	0.7665517	0.3768174
##	[84,]	1.0594802	0.9924396	1.1959007	-0.9910356	1.1848546
##	[85,]	-0.6350171	0.9924396	1.1959007	2.5241391	1.1848546
##	[86,]	1.0594802	0.9924396	-0.5661120	0.7665517	-0.4312199
##	[87,]	-0.6350171	0.1728452	0.3148943	0.7665517	1.1848546
##	[88,]	-0.6350171	-1.4663438	0.3148943	-0.1122420	-0.4312199
##	[89,]	-0.6350171	-0.6467493	0.3148943	-0.9910356	1.1848546
##	[90,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	-0.4312199
##	[91,]	1.0594802	0.9924396	-0.5661120	-0.9910356	1.1848546
##	[92,]	1.0594802	0.9924396	-2.3281247	-0.9910356	-0.4312199
##	[93,]	0.2122316	0.1728452	1.1959007	0.7665517	-0.4312199
##	[94,]	-0.6350171	0.1728452	-0.5661120	0.7665517	-2.0472944
##	[95,]	-1.4822657	-0.6467493	-0.5661120	-0.9910356	1.1848546
##	[96,]	0.2122316	0.1728452	-0.5661120	-0.9910356	1.1848546
##	[97,]	1.0594802	0.9924396	-2.3281247	-0.9910356	-1.2392572
##	[98,]	-0.6350171	0.9924396	1.1959007	0.7665517	1.1848546
##	[99,]	-2.3295144	-0.6467493	1.1959007	0.7665517	1.1848546
##	[100,]	0.2122316	-0.6467493	1.1959007	-0.9910356	-0.4312199
##	[101,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
##	[102,]	0.2122316	0.9924396	1.1959007	1.6453454	1.1848546
##	[103,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
##	[104,]	-1.4822657	0.9924396	1.1959007	1.6453454	0.3768174
##	[105,]	0.2122316	0.1728452	1.1959007	0.7665517	0.3768174
##	[106,]	0.2122316	0.9924396	1.1959007	0.7665517	-0.4312199
##	[107,]	1.0594802	0.9924396	0.3148943	0.7665517	0.3768174
##	[108,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	-2.0472944
##	[109,]	0.2122316	0.1728452	-0.5661120	-0.9910356	1.1848546
##	[110,]	-0.6350171	-0.6467493	0.3148943	0.7665517	1.1848546
##	[111,]	0.2122316	-0.6467493	0.3148943	2.5241391	0.3768174
##	[112,]	1.0594802	0.1728452	0.3148943	-0.1122420	0.3768174
##	[113,]	0.2122316	0.1728452	0.3148943	-0.9910356	-1.2392572
##	[114,]	1.0594802	0.9924396	1.1959007	-0.1122420	-0.4312199
##	[115,]	1.0594802	0.9924396	-0.5661120	-0.1122420	0.3768174
##	[116,]	-0.6350171	0.9924396	-0.5661120	-0.9910356	1.1848546
##	[117,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572
##	[118,]	0.2122316	-1.4663438	0.3148943	-0.9910356	0.3768174
##	[119,]	-1.4822657	-1.4663438	-0.5661120	0.7665517	-1.2392572
##	[120,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	-1.2392572
##	[121,]	0.2122316	0.1728452	1.1959007	0.7665517	1.1848546
##	[122,]	-0.6350171	0.1728452	-2.3281247	0.7665517	0.3768174
##	[123,]	0.2122316	0.1728452	1.1959007	-0.1122420	1.1848546
##	[124,]	-1.4822657	0.1728452	1.1959007	-0.9910356	0.3768174
##	[125,]	1.0594802	0.9924396	1.1959007	2.5241391	0.3768174
##	[126,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-1.2392572

## [127,]	1.0594802	0.9924396	-0.5661120	-0.9910356	0.3768174
## [128,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	0.3768174
## [129,]	-1.4822657	0.9924396	-1.4471183	-0.9910356	-2.0472944
## [130,]	1.0594802	0.9924396	1.1959007	-0.1122420	-1.2392572
## [131,]	-1.4822657	-0.6467493	-0.5661120	-0.9910356	-1.2392572
## [132,]	-0.6350171	-0.6467493	-0.5661120	1.6453454	1.1848546
## [133,]	-1.4822657	0.9924396	0.3148943	-0.9910356	-0.4312199
## [134,]	1.0594802	0.1728452	1.1959007	-0.9910356	0.3768174
## [135,]	1.0594802	0.9924396	1.1959007	0.7665517	0.3768174
## [136,]	-0.6350171	-0.6467493	1.1959007	-0.1122420	0.3768174
## [137,]	-1.4822657	-1.4663438	0.3148943	0.7665517	0.3768174
## [138,]	0.2122316	0.9924396	-0.5661120	-0.9910356	-0.4312199
## [139,]	1.0594802	0.1728452	0.3148943	0.7665517	-1.2392572
## [140,]	-0.6350171	0.1728452	-2.3281247	-0.1122420	-0.4312199
## [141,]	1.0594802	0.9924396	1.1959007	1.6453454	1.1848546
## [142,]	1.0594802	0.9924396	1.1959007	-0.9910356	-2.0472944
## [143,]	-0.6350171	0.1728452	-2.3281247	-0.9910356	-1.2392572
## [144,]	0.2122316	0.9924396	0.3148943	-0.9910356	-1.2392572
## [145,]	-0.6350171	0.1728452	1.1959007	-0.9910356	0.3768174
## [146,]	-1.4822657	-1.4663438	0.3148943	-0.9910356	-2.0472944
## [147,]	-1.4822657	-1.4663438	1.1959007	-0.1122420	1.1848546
## [148,]	0.2122316	-1.4663438	0.3148943	-0.1122420	0.3768174
## [149,]	-0.6350171	-0.6467493	0.3148943	0.7665517	0.3768174
## [150,]	0.2122316	0.1728452	0.3148943	-0.1122420	-1.2392572
## [151,]	-1.4822657	-1.4663438	-0.5661120	-0.9910356	0.3768174
## [152,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	0.3768174
## [153,]	-1.4822657	-0.6467493	1.1959007	-0.1122420	0.3768174
## [154,]	-0.6350171	0.9924396	0.3148943	-0.1122420	0.3768174
## [155,]	-2.3295144	-2.2859383	1.1959007	0.7665517	0.3768174
## [156,]	-0.6350171	0.1728452	-0.5661120	-0.9910356	-1.2392572
## [157,]	-0.6350171	-1.4663438	-0.5661120	-0.1122420	0.3768174
## [158,]	-0.6350171	-0.6467493	-0.5661120	1.6453454	0.3768174
## [159,]	1.0594802	0.9924396	-1.4471183	-0.9910356	0.3768174
## [160,]	-0.6350171	0.1728452	-0.5661120	0.7665517	0.3768174
## [161,]	0.2122316	0.1728452	0.3148943	-0.9910356	-0.4312199
## [162,]	0.2122316	0.1728452	-0.5661120	-0.9910356	1.1848546
## [163,]	-1.4822657	-2.2859383	1.1959007	0.7665517	-1.2392572
## [164,]	-1.4822657	-1.4663438	0.3148943	-0.9910356	-0.4312199
## [165,]	-0.6350171	-1.4663438	-0.5661120	-0.9910356	-1.2392572
## [166,]	-0.6350171	-1.4663438	0.3148943	-0.9910356	-0.4312199
## [167,]	-0.6350171	0.1728452	-0.5661120	-0.9910356	0.3768174
## [168,]	-2.3295144	-1.4663438	1.1959007	-0.1122420	-1.2392572
## [169,]	0.2122316	0.1728452	0.3148943	0.7665517	0.3768174
## [170,]	-0.6350171	0.9924396	-0.5661120	-0.1122420	-0.4312199
## [171,]	0.2122316	0.9924396	0.3148943	-0.9910356	-0.4312199
## [172,]	-0.6350171	0.1728452	-0.5661120	-0.1122420	0.3768174
## [173,]	-0.6350171	0.1728452	1.1959007	0.7665517	-0.4312199
## [174,]	-0.6350171	0.1728452	1.1959007	0.7665517	0.3768174
## [175,]	1.0594802	-2.2859383	1.1959007	0.7665517	1.1848546
## [176,]	0.2122316	0.9924396	-1.4471183	-0.9910356	-1.2392572

##	[177,]	-0.6350171	0.1728452	-0.5661120	-0.1122420	0.3768174
##	[178,]	0.2122316	0.1728452	1.1959007	0.7665517	0.3768174
##	[179,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
##	[180,]	0.2122316	0.9924396	1.1959007	-0.1122420	0.3768174
##	[181,]	-2.3295144	-2.2859383	0.3148943	-0.9910356	-0.4312199
##	[182,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	-0.4312199
##	[183,]	1.0594802	0.9924396	0.3148943	-0.1122420	0.3768174
##	[184,]	0.2122316	-0.6467493	1.1959007	0.7665517	1.1848546
##	[185,]	-0.6350171	-0.6467493	-0.5661120	-0.1122420	-2.0472944
##	[186,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
##	[187,]	0.2122316	-2.2859383	1.1959007	-0.1122420	-1.2392572
##	[188,]	-1.4822657	-1.4663438	-1.4471183	-0.9910356	-0.4312199
##	[189,]	1.0594802	0.9924396	1.1959007	0.7665517	-0.4312199
##	[190,]	-0.6350171	-0.6467493	0.3148943	2.5241391	0.3768174
##	[191,]	0.2122316	0.1728452	0.3148943	-0.1122420	-1.2392572
##	[192,]	1.0594802	0.9924396	0.3148943	-0.9910356	-2.0472944
##	[193,]	1.0594802	0.9924396	0.3148943	-0.9910356	-1.2392572
##	[194,]	-0.6350171	0.1728452	1.1959007	-0.9910356	0.3768174
##	[195,]	-0.6350171	-0.6467493	-1.4471183	-0.1122420	-0.4312199
##	[196,]	-0.6350171	-1.4663438	-0.5661120	-0.1122420	0.3768174
##	[197,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
##	[198,]	-0.6350171	-1.4663438	-2.3281247	-0.9910356	-2.0472944
##	[199,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
##	[200,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	0.3768174
##	[201,]	0.2122316	0.1728452	1.1959007	1.6453454	-0.4312199
##	[202,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
##	[203,]	0.2122316	0.1728452	-1.4471183	0.7665517	1.1848546
##	[204,]	1.0594802	0.9924396	-1.4471183	-0.1122420	0.3768174
##	[205,]	0.2122316	0.9924396	0.3148943	-0.1122420	-0.4312199
##	[206,]	1.0594802	0.1728452	1.1959007	-0.1122420	-2.0472944
##	[207,]	-1.4822657	-1.4663438	0.3148943	1.6453454	1.1848546
##	[208,]	1.0594802	0.9924396	1.1959007	-0.9910356	0.3768174
##	[209,]	1.0594802	-0.6467493	0.3148943	-0.9910356	-0.4312199
##	[210,]	-0.6350171	0.1728452	0.3148943	0.7665517	0.3768174
##	[211,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[212,]	1.0594802	-2.2859383	-0.5661120	-0.1122420	1.1848546
##	[213,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
##	[214,]	1.0594802	0.9924396	0.3148943	-0.1122420	1.1848546
##	[215,]	0.2122316	0.1728452	1.1959007	0.7665517	0.3768174
##	[216,]	-2.3295144	-2.2859383	-0.5661120	1.6453454	1.1848546
##	[217,]	-2.3295144	-2.2859383	-0.5661120	-0.9910356	-1.2392572
##	[218,]	1.0594802	0.9924396	0.3148943	-0.1122420	0.3768174
##	[219,]	-0.6350171	0.1728452	1.1959007	-0.9910356	1.1848546
##	[220,]	-0.6350171	-0.6467493	1.1959007	0.7665517	1.1848546
##	[221,]	0.2122316	0.9924396	0.3148943	0.7665517	0.3768174
##	[222,]	0.2122316	0.9924396	0.3148943	0.7665517	-1.2392572
##	[223,]	1.0594802	0.9924396	-0.5661120	0.7665517	-0.4312199
##	[224,]	0.2122316	0.9924396	0.3148943	-0.9910356	0.3768174
##	[225,]	-1.4822657	0.1728452	-0.5661120	-0.9910356	1.1848546
##	[226,]	-1.4822657	0.1728452	1.1959007	0.7665517	1.1848546

## [227,]	1.0594802	0.9924396	-0.5661120	-0.9910356	1.1848546
## [228,]	0.2122316	0.9924396	1.1959007	-0.1122420	0.3768174
## [229,]	-0.6350171	-0.6467493	0.3148943	0.7665517	-0.4312199
## [230,]	-0.6350171	-1.4663438	-0.5661120	0.7665517	1.1848546
## [231,]	0.2122316	0.1728452	0.3148943	-0.1122420	0.3768174
## [232,]	0.2122316	-0.6467493	-0.5661120	-0.9910356	-0.4312199
## [233,]	-1.4822657	-0.6467493	-0.5661120	-0.1122420	1.1848546
## [234,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-0.4312199
## [235,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
## [236,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
## [237,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
## [238,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
## [239,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
## [240,]	0.2122316	0.1728452	-1.4471183	-0.9910356	0.3768174
## [241,]	1.0594802	0.9924396	0.3148943	0.7665517	0.3768174
## [242,]	0.2122316	-0.6467493	-0.5661120	-0.1122420	0.3768174
## [243,]	-0.6350171	-1.4663438	-1.4471183	-0.9910356	-0.4312199
## [244,]	0.2122316	-0.6467493	0.3148943	-0.1122420	-1.2392572
## [245,]	1.0594802	0.9924396	-1.4471183	-0.9910356	0.3768174
## [246,]	1.0594802	0.9924396	-0.5661120	-0.1122420	1.1848546
## [247,]	1.0594802	-1.4663438	1.1959007	2.5241391	1.1848546
## [248,]	0.2122316	0.9924396	1.1959007	-0.9910356	-1.2392572
## [249,]	1.0594802	0.9924396	-0.5661120	-0.1122420	1.1848546
## [250,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
## [251,]	-1.4822657	-1.4663438	-1.4471183	-0.1122420	-0.4312199
## [252,]	1.0594802	0.9924396	1.1959007	-0.1122420	-1.2392572
## [253,]	1.0594802	0.9924396	0.3148943	0.7665517	0.3768174
## [254,]	-1.4822657	-2.2859383	-1.4471183	-0.9910356	-1.2392572
## [255,]	1.0594802	-1.4663438	-0.5661120	-0.9910356	0.3768174
## [256,]	1.0594802	0.9924396	1.1959007	1.6453454	-1.2392572
## [257,]	1.0594802	0.9924396	-1.4471183	-0.1122420	-1.2392572
## [258,]	0.2122316	0.9924396	1.1959007	1.6453454	1.1848546
## [259,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572
## [260,]	-0.6350171	-2.2859383	1.1959007	-0.9910356	-2.0472944
## [261,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	-0.4312199
## [262,]	0.2122316	0.9924396	-0.5661120	-0.9910356	0.3768174
## [263,]	0.2122316	0.1728452	1.1959007	0.7665517	-0.4312199
## [264,]	0.2122316	0.9924396	-2.3281247	-0.9910356	-0.4312199
## [265,]	-0.6350171	0.9924396	-0.5661120	-0.1122420	1.1848546
## [266,]	-1.4822657	-1.4663438	-1.4471183	-0.9910356	-0.4312199
## [267,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-1.2392572
## [268,]	1.0594802	0.9924396	0.3148943	1.6453454	0.3768174
## [269,]	1.0594802	0.9924396	1.1959007	-0.1122420	-0.4312199
## [270,]	0.2122316	0.1728452	0.3148943	-0.1122420	-0.4312199
## [271,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
## [272,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	1.1848546
## [273,]	-0.6350171	0.9924396	1.1959007	-0.9910356	-1.2392572
## [274,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
## [275,]	-0.6350171	0.1728452	1.1959007	-0.1122420	-1.2392572
## [276,]	1.0594802	0.9924396	0.3148943	0.7665517	0.3768174

##	[277,]	1.0594802	0.9924396	-0.5661120	0.7665517	1.1848546
##	[278,]	-0.6350171	-0.6467493	0.3148943	1.6453454	0.3768174
##	[279,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
##	[280,]	1.0594802	0.9924396	1.1959007	-0.9910356	-2.0472944
##	[281,]	-0.6350171	0.1728452	-0.5661120	-0.1122420	0.3768174
##	[282,]	0.2122316	-2.2859383	1.1959007	2.5241391	1.1848546
##	[283,]	-0.6350171	-0.6467493	-2.3281247	-0.9910356	-1.2392572
##	[284,]	-0.6350171	-0.6467493	1.1959007	1.6453454	0.3768174
##	[285,]	1.0594802	0.9924396	0.3148943	-0.1122420	1.1848546
##	[286,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	-0.4312199
##	[287,]	0.2122316	0.1728452	0.3148943	-0.9910356	0.3768174
##	[288,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-1.2392572
##	[289,]	0.2122316	0.1728452	1.1959007	2.5241391	1.1848546
##	[290,]	-1.4822657	-0.6467493	-1.4471183	-0.1122420	0.3768174
##	[291,]	1.0594802	0.9924396	0.3148943	-0.9910356	-1.2392572
##	[292,]	0.2122316	0.1728452	-0.5661120	-0.1122420	0.3768174
##	[293,]	1.0594802	0.9924396	-0.5661120	-0.1122420	1.1848546
##	[294,]	1.0594802	0.9924396	0.3148943	0.7665517	-2.0472944
##	[295,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	-1.2392572
##	[296,]	1.0594802	0.1728452	0.3148943	1.6453454	-1.2392572
##	[297,]	-2.3295144	-2.2859383	-0.5661120	1.6453454	1.1848546
##	[298,]	-1.4822657	-0.6467493	-1.4471183	-0.1122420	-0.4312199
##	[299,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
##	[300,]	1.0594802	0.9924396	1.1959007	-0.9910356	1.1848546
##	[301,]	0.2122316	0.9924396	1.1959007	-0.9910356	0.3768174
##	[302,]	1.0594802	-1.4663438	1.1959007	1.6453454	1.1848546
##	[303,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-2.0472944
##	[304,]	-0.6350171	-0.6467493	-0.5661120	1.6453454	1.1848546
##	[305,]	0.2122316	0.1728452	-1.4471183	-0.9910356	0.3768174
##	[306,]	1.0594802	0.1728452	0.3148943	-0.9910356	0.3768174
##	[307,]	1.0594802	0.9924396	-1.4471183	-0.9910356	-2.0472944
##	[308,]	1.0594802	0.9924396	1.1959007	-0.9910356	-2.0472944
##	[309,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
##	[310,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	-0.4312199
##	[311,]	-1.4822657	0.1728452	-0.5661120	-0.9910356	1.1848546
##	[312,]	0.2122316	0.9924396	1.1959007	0.7665517	1.1848546
##	[313,]	-1.4822657	-1.4663438	-0.5661120	-0.9910356	-0.4312199
##	[314,]	0.2122316	-0.6467493	-0.5661120	-0.9910356	-0.4312199
##	[315,]	1.0594802	0.9924396	1.1959007	1.6453454	1.1848546
##	[316,]	0.2122316	-0.6467493	-0.5661120	-0.1122420	0.3768174
##	[317,]	-0.6350171	0.9924396	-0.5661120	-0.9910356	-0.4312199
##	[318,]	-0.6350171	-0.6467493	-0.5661120	-0.9910356	1.1848546
##	[319,]	-1.4822657	-2.2859383	-2.3281247	1.6453454	-0.4312199
##	[320,]	1.0594802	0.9924396	-0.5661120	-0.1122420	0.3768174
##	[321,]	1.0594802	0.9924396	-0.5661120	1.6453454	1.1848546
##	[322,]	-0.6350171	0.9924396	-0.5661120	1.6453454	0.3768174
##	[323,]	1.0594802	0.9924396	1.1959007	-0.9910356	-1.2392572
##	[324,]	-0.6350171	-1.4663438	1.1959007	-0.9910356	1.1848546
##	[325,]	0.2122316	0.1728452	-0.5661120	-0.1122420	0.3768174
##	[326,]	0.2122316	0.1728452	1.1959007	-0.1122420	0.3768174

## [327,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	-1.2392572
## [328,]	0.2122316	0.9924396	1.1959007	-0.9910356	1.1848546
## [329,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	-0.4312199
## [330,]	1.0594802	0.1728452	-0.5661120	-0.9910356	-1.2392572
## [331,]	0.2122316	0.1728452	0.3148943	-0.9910356	-0.4312199
## [332,]	-1.4822657	-1.4663438	-1.4471183	2.5241391	-1.2392572
## [333,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
## [334,]	1.0594802	0.9924396	-0.5661120	0.7665517	-0.4312199
## [335,]	-0.6350171	0.1728452	0.3148943	-0.9910356	-2.0472944
## [336,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	-0.4312199
## [337,]	-0.6350171	0.9924396	1.1959007	-0.9910356	-0.4312199
## [338,]	1.0594802	0.9924396	1.1959007	0.7665517	0.3768174
## [339,]	0.2122316	0.1728452	-0.5661120	-0.9910356	-0.4312199
## [340,]	1.0594802	0.9924396	1.1959007	-0.9910356	-1.2392572
## [341,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	-1.2392572
## [342,]	-2.3295144	-2.2859383	0.3148943	2.5241391	1.1848546
## [343,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-0.4312199
## [344,]	1.0594802	0.9924396	0.3148943	-0.9910356	-2.0472944
## [345,]	1.0594802	-1.4663438	-2.3281247	-0.9910356	-2.0472944
## [346,]	-1.4822657	-2.2859383	-2.3281247	-0.9910356	1.1848546
## [347,]	-1.4822657	-2.2859383	-0.5661120	-0.1122420	1.1848546
## [348,]	-0.6350171	-0.6467493	-0.5661120	-0.1122420	1.1848546
## [349,]	1.0594802	0.9924396	1.1959007	0.7665517	0.3768174
## [350,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-0.4312199
## [351,]	-1.4822657	0.9924396	-1.4471183	0.7665517	1.1848546
## [352,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
## [353,]	-0.6350171	-1.4663438	1.1959007	2.5241391	0.3768174
## [354,]	-1.4822657	-1.4663438	-0.5661120	-0.1122420	-1.2392572
## [355,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
## [356,]	1.0594802	0.9924396	-1.4471183	-0.1122420	0.3768174
## [357,]	0.2122316	0.1728452	0.3148943	1.6453454	0.3768174
## [358,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
## [359,]	-0.6350171	-1.4663438	0.3148943	0.7665517	-0.4312199
## [360,]	1.0594802	0.9924396	1.1959007	0.7665517	0.3768174
## [361,]	1.0594802	-0.6467493	-0.5661120	-0.1122420	0.3768174
## [362,]	1.0594802	0.9924396	-1.4471183	-0.9910356	-1.2392572
## [363,]	-0.6350171	-0.6467493	0.3148943	0.7665517	0.3768174
## [364,]	-1.4822657	-1.4663438	0.3148943	0.7665517	0.3768174
## [365,]	-2.3295144	-2.2859383	0.3148943	1.6453454	1.1848546
## [366,]	-1.4822657	-1.4663438	1.1959007	0.7665517	0.3768174
## [367,]	-0.6350171	-0.6467493	-0.5661120	1.6453454	1.1848546
## [368,]	-0.6350171	-0.6467493	1.1959007	-0.1122420	1.1848546
## [369,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
## [370,]	1.0594802	0.9924396	0.3148943	2.5241391	1.1848546
## [371,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
## [372,]	1.0594802	0.9924396	-0.5661120	0.7665517	-1.2392572
## [373,]	-0.6350171	0.9924396	1.1959007	-0.9910356	0.3768174
## [374,]	0.2122316	0.1728452	-2.3281247	0.7665517	1.1848546
## [375,]	1.0594802	-0.6467493	-0.5661120	-0.1122420	-1.2392572
## [376,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-0.4312199

## [377,]	1.0594802	0.9924396	1.1959007	-0.9910356	-1.2392572
## [378,]	0.2122316	0.1728452	0.3148943	-0.9910356	-1.2392572
## [379,]	1.0594802	0.9924396	0.3148943	-0.9910356	-1.2392572
## [380,]	1.0594802	0.9924396	0.3148943	0.7665517	1.1848546
## [381,]	1.0594802	0.1728452	-1.4471183	-0.9910356	0.3768174
## [382,]	1.0594802	0.9924396	0.3148943	-0.1122420	0.3768174
## [383,]	1.0594802	0.9924396	0.3148943	-0.1122420	0.3768174
## [384,]	0.2122316	0.1728452	1.1959007	-0.9910356	1.1848546
## [385,]	0.2122316	0.1728452	-1.4471183	-0.9910356	-2.0472944
## [386,]	1.0594802	0.9924396	0.3148943	1.6453454	1.1848546
## [387,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	-0.4312199
## [388,]	1.0594802	0.9924396	-0.5661120	-0.9910356	1.1848546
## [389,]	1.0594802	-0.6467493	0.3148943	-0.9910356	1.1848546
## [390,]	0.2122316	0.1728452	0.3148943	-0.1122420	-1.2392572
## [391,]	1.0594802	0.9924396	1.1959007	1.6453454	0.3768174
## [392,]	0.2122316	-0.6467493	-0.5661120	-0.1122420	0.3768174
## [393,]	1.0594802	0.9924396	-0.5661120	0.7665517	-0.4312199
## [394,]	-1.4822657	-2.2859383	-0.5661120	1.6453454	1.1848546
## [395,]	0.2122316	-0.6467493	-0.5661120	-0.9910356	0.3768174
## [396,]	-0.6350171	-1.4663438	-0.5661120	0.7665517	1.1848546
## [397,]	-0.6350171	-0.6467493	-1.4471183	-0.1122420	-0.4312199
## [398,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	-0.4312199
## [399,]	-0.6350171	-1.4663438	1.1959007	0.7665517	0.3768174
## [400,]	-1.4822657	-0.6467493	-2.3281247	-0.9910356	-0.4312199
## [401,]	0.2122316	0.1728452	0.3148943	-0.1122420	0.3768174
## [402,]	-0.6350171	-0.6467493	-2.3281247	-0.9910356	-2.0472944
## [403,]	1.0594802	0.9924396	1.1959007	-0.9910356	0.3768174
## [404,]	1.0594802	0.1728452	1.1959007	0.7665517	-0.4312199
## [405,]	1.0594802	0.9924396	1.1959007	-0.9910356	-1.2392572
## [406,]	1.0594802	0.1728452	0.3148943	0.7665517	-0.4312199
## [407,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-0.4312199
## [408,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
## [409,]	1.0594802	-0.6467493	1.1959007	-0.9910356	-1.2392572
## [410,]	-1.4822657	-1.4663438	-2.3281247	2.5241391	-1.2392572
## [411,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
## [412,]	1.0594802	0.9924396	-1.4471183	-0.9910356	-0.4312199
## [413,]	-2.3295144	-0.6467493	-2.3281247	-0.9910356	-0.4312199
## [414,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	1.1848546
## [415,]	0.2122316	0.1728452	0.3148943	-0.9910356	-1.2392572
## [416,]	1.0594802	0.9924396	0.3148943	-0.9910356	-2.0472944
## [417,]	-0.6350171	0.1728452	-1.4471183	-0.9910356	-2.0472944
## [418,]	-2.3295144	-2.2859383	-0.5661120	-0.1122420	0.3768174
## [419,]	-0.6350171	-0.6467493	-0.5661120	-0.9910356	-1.2392572
## [420,]	0.2122316	-2.2859383	1.1959007	-0.1122420	0.3768174
## [421,]	1.0594802	0.9924396	1.1959007	-0.9910356	0.3768174
## [422,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
## [423,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
## [424,]	0.2122316	0.9924396	0.3148943	-0.9910356	-2.0472944
## [425,]	1.0594802	0.9924396	0.3148943	0.7665517	-1.2392572
## [426,]	1.0594802	0.9924396	1.1959007	-0.9910356	1.1848546

##	[427,]	0.2122316	0.1728452	0.3148943	-0.9910356	-2.0472944
##	[428,]	1.0594802	0.9924396	1.1959007	-0.9910356	-0.4312199
##	[429,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-0.4312199
##	[430,]	1.0594802	0.1728452	0.3148943	-0.1122420	-1.2392572
##	[431,]	0.2122316	0.9924396	1.1959007	-0.1122420	-0.4312199
##	[432,]	0.2122316	0.9924396	0.3148943	0.7665517	1.1848546
##	[433,]	-1.4822657	-0.6467493	0.3148943	1.6453454	-1.2392572
##	[434,]	-1.4822657	-1.4663438	1.1959007	-0.9910356	-1.2392572
##	[435,]	-1.4822657	-0.6467493	1.1959007	1.6453454	1.1848546
##	[436,]	-0.6350171	0.1728452	-1.4471183	-0.9910356	-1.2392572
##	[437,]	0.2122316	0.1728452	-1.4471183	-0.1122420	0.3768174
##	[438,]	-2.3295144	-2.2859383	-0.5661120	-0.9910356	-0.4312199
##	[439,]	1.0594802	0.9924396	0.3148943	-0.9910356	-1.2392572
##	[440,]	-1.4822657	-1.4663438	-0.5661120	-0.1122420	1.1848546
##	[441,]	-0.6350171	-1.4663438	-0.5661120	-0.1122420	-1.2392572
##	[442,]	1.0594802	0.9924396	0.3148943	-0.9910356	-0.4312199
##	[443,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
##	[444,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	0.3768174
##	[445,]	-1.4822657	-0.6467493	-0.5661120	-0.1122420	-1.2392572
##	[446,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-0.4312199
##	[447,]	-2.3295144	-1.4663438	-0.5661120	-0.9910356	0.3768174
##	[448,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	-2.0472944
##	[449,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-1.2392572
##	[450,]	1.0594802	0.9924396	0.3148943	-0.9910356	-1.2392572
##	[451,]	1.0594802	0.9924396	1.1959007	-0.9910356	1.1848546
##	[452,]	-0.6350171	-0.6467493	1.1959007	0.7665517	0.3768174
##	[453,]	1.0594802	-1.4663438	-0.5661120	-0.9910356	-2.0472944
##	[454,]	1.0594802	0.9924396	0.3148943	-0.9910356	-1.2392572
##	[455,]	1.0594802	0.9924396	0.3148943	-0.9910356	-0.4312199
##	[456,]	1.0594802	0.1728452	-0.5661120	-0.9910356	1.1848546
##	[457,]	-2.3295144	-2.2859383	0.3148943	-0.1122420	1.1848546
##	[458,]	-1.4822657	-0.6467493	0.3148943	-0.1122420	1.1848546
##	[459,]	1.0594802	-2.2859383	1.1959007	-0.9910356	-2.0472944
##	[460,]	1.0594802	0.9924396	0.3148943	-0.1122420	-2.0472944
##	[461,]	-0.6350171	-0.6467493	1.1959007	0.7665517	1.1848546
##	[462,]	-0.6350171	-0.6467493	0.3148943	0.7665517	-0.4312199
##	[463,]	1.0594802	0.9924396	1.1959007	-0.9910356	-1.2392572
##	[464,]	0.2122316	0.9924396	-1.4471183	-0.9910356	-1.2392572
##	[465,]	-0.6350171	-0.6467493	-1.4471183	-0.1122420	-2.0472944
##	[466,]	-0.6350171	-0.6467493	0.3148943	1.6453454	0.3768174
##	[467,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	-0.4312199
##	[468,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	0.3768174
##	[469,]	-0.6350171	-0.6467493	-0.5661120	1.6453454	0.3768174
##	[470,]	1.0594802	0.9924396	-0.5661120	0.7665517	1.1848546
##	[471,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	-0.4312199
##	[472,]	0.2122316	0.9924396	0.3148943	0.7665517	1.1848546
##	[473,]	-2.3295144	-2.2859383	0.3148943	-0.1122420	-2.0472944
##	[474,]	0.2122316	-0.6467493	1.1959007	-0.9910356	-1.2392572
##	[475,]	-1.4822657	-1.4663438	1.1959007	-0.9910356	0.3768174
##	[476,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572

##	[477,]	-0.6350171	-0.6467493	0.3148943	-0.9910356	-0.4312199
##	[478,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	0.3768174
##	[479,]	-2.3295144	-1.4663438	-1.4471183	-0.1122420	1.1848546
##	[480,]	0.2122316	0.1728452	-0.5661120	-0.1122420	1.1848546
##	[481,]	1.0594802	0.9924396	1.1959007	0.7665517	0.3768174
##	[482,]	-0.6350171	-1.4663438	1.1959007	2.5241391	-1.2392572
##	[483,]	-1.4822657	-0.6467493	-0.5661120	-0.9910356	0.3768174
##	[484,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572
##	[485,]	0.2122316	0.1728452	-1.4471183	-0.9910356	0.3768174
##	[486,]	-2.3295144	0.9924396	-0.5661120	-0.9910356	0.3768174
##	[487,]	0.2122316	-1.4663438	0.3148943	-0.1122420	-2.0472944
##	[488,]	1.0594802	-1.4663438	-0.5661120	-0.9910356	1.1848546
##	[489,]	-0.6350171	-0.6467493	0.3148943	1.6453454	0.3768174
##	[490,]	1.0594802	0.9924396	0.3148943	-0.9910356	-2.0472944
##	[491,]	1.0594802	0.1728452	-2.3281247	-0.9910356	-2.0472944
##	[492,]	0.2122316	0.1728452	0.3148943	-0.9910356	0.3768174
##	[493,]	1.0594802	0.9924396	1.1959007	-0.1122420	0.3768174
##	[494,]	-1.4822657	-0.6467493	-0.5661120	-0.1122420	1.1848546
##	[495,]	-0.6350171	0.1728452	-0.5661120	-0.9910356	-2.0472944
##	[496,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	0.3768174
##	[497,]	1.0594802	0.1728452	0.3148943	-0.1122420	-1.2392572
##	[498,]	-2.3295144	-2.2859383	1.1959007	-0.1122420	-1.2392572
##	[499,]	1.0594802	0.9924396	0.3148943	-0.1122420	-0.4312199
##	[500,]	0.2122316	0.1728452	0.3148943	2.5241391	-0.4312199
##	[501,]	1.0594802	0.9924396	0.3148943	-0.9910356	-0.4312199
##	[502,]	-1.4822657	-1.4663438	0.3148943	-0.9910356	-2.0472944
##	[503,]	1.0594802	0.9924396	-0.5661120	2.5241391	1.1848546
##	[504,]	1.0594802	0.9924396	1.1959007	1.6453454	-1.2392572
##	[505,]	0.2122316	-1.4663438	-0.5661120	-0.9910356	-1.2392572
##	[506,]	-0.6350171	0.1728452	0.3148943	2.5241391	1.1848546
##	[507,]	-1.4822657	-1.4663438	-0.5661120	-0.1122420	0.3768174
##	[508,]	1.0594802	-2.2859383	1.1959007	0.7665517	-1.2392572
##	[509,]	0.2122316	0.1728452	0.3148943	1.6453454	1.1848546
##	[510,]	1.0594802	0.9924396	0.3148943	0.7665517	1.1848546
##	[511,]	0.2122316	-0.6467493	0.3148943	1.6453454	0.3768174
##	[512,]	0.2122316	0.1728452	-0.5661120	0.7665517	0.3768174
##	[513,]	-0.6350171	-2.2859383	-2.3281247	-0.9910356	-0.4312199
##	[514,]	0.2122316	0.1728452	-0.5661120	-0.1122420	0.3768174
##	[515,]	1.0594802	0.9924396	1.1959007	1.6453454	0.3768174
##	[516,]	-2.3295144	0.1728452	-0.5661120	2.5241391	1.1848546
##	[517,]	1.0594802	0.9924396	-0.5661120	0.7665517	1.1848546
##	[518,]	0.2122316	0.9924396	0.3148943	-0.1122420	-0.4312199
##	[519,]	1.0594802	0.9924396	1.1959007	-0.9910356	0.3768174
##	[520,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	0.3768174
##	[521,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	-0.4312199
##	[522,]	1.0594802	0.9924396	0.3148943	-0.9910356	-2.0472944
##	[523,]	0.2122316	0.1728452	-0.5661120	-0.1122420	0.3768174
##	[524,]	-2.3295144	0.9924396	0.3148943	0.7665517	0.3768174
##	[525,]	0.2122316	0.9924396	0.3148943	-0.9910356	-2.0472944
##	[526,]	-1.4822657	-0.6467493	-0.5661120	-0.1122420	-1.2392572

##	[527,]	1.0594802	0.9924396	-0.5661120	-0.1122420	1.1848546
##	[528,]	-2.3295144	-2.2859383	0.3148943	1.6453454	1.1848546
##	[529,]	0.2122316	0.1728452	1.1959007	-0.9910356	1.1848546
##	[530,]	0.2122316	0.1728452	0.3148943	-0.1122420	-1.2392572
##	[531,]	-0.6350171	-2.2859383	1.1959007	-0.9910356	1.1848546
##	[532,]	1.0594802	0.9924396	1.1959007	-0.1122420	-0.4312199
##	[533,]	1.0594802	0.9924396	1.1959007	-0.9910356	-0.4312199
##	[534,]	-0.6350171	-0.6467493	-0.5661120	-0.9910356	-0.4312199
##	[535,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[536,]	1.0594802	0.9924396	-0.5661120	-0.1122420	1.1848546
##	[537,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	1.1848546
##	[538,]	-1.4822657	0.1728452	0.3148943	-0.1122420	-0.4312199
##	[539,]	1.0594802	0.9924396	-1.4471183	-0.9910356	0.3768174
##	[540,]	-1.4822657	-2.2859383	1.1959007	1.6453454	-0.4312199
##	[541,]	1.0594802	0.9924396	1.1959007	-0.9910356	1.1848546
##	[542,]	1.0594802	0.9924396	-0.5661120	-0.1122420	0.3768174
##	[543,]	0.2122316	0.1728452	0.3148943	0.7665517	0.3768174
##	[544,]	0.2122316	0.1728452	1.1959007	-0.1122420	0.3768174
##	[545,]	0.2122316	0.1728452	0.3148943	-0.9910356	-0.4312199
##	[546,]	1.0594802	0.9924396	0.3148943	2.5241391	1.1848546
##	[547,]	-0.6350171	0.9924396	-0.5661120	-0.1122420	0.3768174
##	[548,]	0.2122316	0.1728452	1.1959007	0.7665517	0.3768174
##	[549,]	-0.6350171	-0.6467493	-0.5661120	-0.1122420	0.3768174
##	[550,]	1.0594802	0.9924396	0.3148943	-0.9910356	0.3768174
##	[551,]	1.0594802	0.9924396	0.3148943	-0.1122420	0.3768174
##	[552,]	1.0594802	0.9924396	0.3148943	-0.9910356	0.3768174
##	[553,]	0.2122316	0.1728452	0.3148943	-0.9910356	-1.2392572
##	[554,]	0.2122316	-0.6467493	-1.4471183	0.7665517	0.3768174
##	[555,]	-0.6350171	-1.4663438	0.3148943	-0.1122420	0.3768174
##	[556,]	0.2122316	-1.4663438	0.3148943	-0.1122420	1.1848546
##	[557,]	-0.6350171	-2.2859383	-1.4471183	-0.9910356	-1.2392572
##	[558,]	-0.6350171	-0.6467493	0.3148943	0.7665517	1.1848546
##	[559,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572
##	[560,]	-0.6350171	-0.6467493	-2.3281247	-0.9910356	-1.2392572
##	[561,]	1.0594802	0.9924396	1.1959007	1.6453454	1.1848546
##	[562,]	0.2122316	0.1728452	0.3148943	0.7665517	0.3768174
##	[563,]	-1.4822657	-1.4663438	-0.5661120	0.7665517	0.3768174
##	[564,]	0.2122316	-0.6467493	-0.5661120	0.7665517	1.1848546
##	[565,]	1.0594802	0.9924396	1.1959007	-0.9910356	1.1848546
##	[566,]	1.0594802	0.9924396	-0.5661120	-0.1122420	1.1848546
##	[567,]	-0.6350171	-0.6467493	-1.4471183	0.7665517	1.1848546
##	[568,]	-0.6350171	-0.6467493	-2.3281247	-0.9910356	0.3768174
##	[569,]	-1.4822657	0.1728452	1.1959007	-0.9910356	-0.4312199
##	[570,]	0.2122316	0.1728452	0.3148943	-0.1122420	-0.4312199
##	[571,]	-0.6350171	-0.6467493	-0.5661120	-0.9910356	1.1848546
##	[572,]	-2.3295144	-2.2859383	-2.3281247	-0.9910356	1.1848546
##	[573,]	-0.6350171	-1.4663438	-0.5661120	-0.9910356	-0.4312199
##	[574,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	0.3768174
##	[575,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-0.4312199
##	[576,]	1.0594802	0.1728452	0.3148943	0.7665517	-1.2392572

##	[577,]	0.2122316	0.9924396	1.1959007	2.5241391	1.1848546
##	[578,]	-1.4822657	-0.6467493	-1.4471183	-0.9910356	-1.2392572
##	[579,]	1.0594802	0.9924396	-1.4471183	-0.1122420	1.1848546
##	[580,]	0.2122316	0.9924396	0.3148943	-0.9910356	1.1848546
##	[581,]	1.0594802	0.9924396	0.3148943	-0.9910356	0.3768174
##	[582,]	0.2122316	0.1728452	-0.5661120	-0.9910356	0.3768174
##	[583,]	-0.6350171	-1.4663438	0.3148943	-0.1122420	0.3768174
##	[584,]	-1.4822657	-1.4663438	-0.5661120	-0.9910356	1.1848546
##	[585,]	1.0594802	0.9924396	0.3148943	-0.9910356	0.3768174
##	[586,]	0.2122316	0.1728452	-0.5661120	-0.9910356	1.1848546
##	[587,]	1.0594802	0.9924396	1.1959007	-0.1122420	0.3768174
##	[588,]	-1.4822657	-1.4663438	-1.4471183	0.7665517	0.3768174
##	[589,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-0.4312199
##	[590,]	1.0594802	0.1728452	1.1959007	-0.9910356	-0.4312199
##	[591,]	0.2122316	-1.4663438	-0.5661120	-0.1122420	0.3768174
##	[592,]	-0.6350171	0.1728452	1.1959007	-0.1122420	0.3768174
##	[593,]	1.0594802	-2.2859383	-0.5661120	-0.9910356	-2.0472944
##	[594,]	0.2122316	-0.6467493	0.3148943	-0.9910356	-1.2392572
##	[595,]	-0.6350171	-0.6467493	0.3148943	-0.9910356	-1.2392572
##	[596,]	-0.6350171	0.1728452	-1.4471183	-0.9910356	-0.4312199
##	[597,]	0.2122316	0.1728452	0.3148943	-0.1122420	0.3768174
##	[598,]	0.2122316	0.9924396	-1.4471183	-0.1122420	1.1848546
##	[599,]	1.0594802	0.1728452	-1.4471183	0.7665517	0.3768174
##	[600,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
##	[601,]	1.0594802	0.9924396	0.3148943	-0.1122420	-1.2392572
##	[602,]	1.0594802	0.1728452	-0.5661120	-0.9910356	-1.2392572
##	[603,]	-0.6350171	0.1728452	-0.5661120	-0.1122420	0.3768174
##	[604,]	0.2122316	0.1728452	0.3148943	-0.1122420	-0.4312199
##	[605,]	1.0594802	0.9924396	0.3148943	-0.1122420	0.3768174
##	[606,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[607,]	0.2122316	0.1728452	1.1959007	-0.9910356	0.3768174
##	[608,]	-0.6350171	0.1728452	0.3148943	-0.9910356	1.1848546
##	[609,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[610,]	0.2122316	0.1728452	1.1959007	2.5241391	1.1848546
##	[611,]	-0.6350171	0.1728452	0.3148943	0.7665517	0.3768174
##	[612,]	0.2122316	0.1728452	-1.4471183	-0.9910356	-0.4312199
##	[613,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[614,]	0.2122316	0.9924396	-1.4471183	-0.9910356	-0.4312199
##	[615,]	1.0594802	0.9924396	0.3148943	-0.9910356	0.3768174
##	[616,]	0.2122316	-0.6467493	0.3148943	-0.1122420	0.3768174
##	[617,]	0.2122316	0.1728452	1.1959007	-0.1122420	1.1848546
##	[618,]	-1.4822657	-1.4663438	0.3148943	-0.9910356	-2.0472944
##	[619,]	-0.6350171	0.9924396	1.1959007	-0.9910356	1.1848546
##	[620,]	-0.6350171	-0.6467493	1.1959007	-0.1122420	0.3768174
##	[621,]	-2.3295144	-2.2859383	0.3148943	-0.1122420	-0.4312199
##	[622,]	-1.4822657	0.1728452	0.3148943	-0.9910356	-1.2392572
##	[623,]	1.0594802	0.9924396	-0.5661120	0.7665517	1.1848546
##	[624,]	1.0594802	0.9924396	1.1959007	-0.1122420	0.3768174
##	[625,]	0.2122316	0.1728452	-0.5661120	-0.9910356	-0.4312199
##	[626,]	1.0594802	0.9924396	-0.5661120	-0.9910356	0.3768174

##	[627,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572
##	[628,]	0.2122316	0.1728452	-2.3281247	0.7665517	-1.2392572
##	[629,]	0.2122316	0.9924396	1.1959007	2.5241391	1.1848546
##	[630,]	1.0594802	0.9924396	-1.4471183	-0.9910356	-0.4312199
##	[631,]	1.0594802	0.9924396	1.1959007	-0.9910356	-2.0472944
##	[632,]	1.0594802	0.9924396	-0.5661120	-0.1122420	0.3768174
##	[633,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	0.3768174
##	[634,]	0.2122316	0.1728452	-0.5661120	0.7665517	1.1848546
##	[635,]	1.0594802	0.1728452	-0.5661120	-0.9910356	-1.2392572
##	[636,]	-1.4822657	-0.6467493	-0.5661120	-0.9910356	-2.0472944
##	[637,]	-1.4822657	-0.6467493	1.1959007	1.6453454	1.1848546
##	[638,]	-1.4822657	-0.6467493	1.1959007	-0.1122420	0.3768174
##	[639,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
##	[640,]	-0.6350171	0.1728452	0.3148943	0.7665517	1.1848546
##	[641,]	-2.3295144	-2.2859383	1.1959007	-0.9910356	-2.0472944
##	[642,]	-0.6350171	0.9924396	0.3148943	0.7665517	1.1848546
##	[643,]	0.2122316	-1.4663438	1.1959007	-0.9910356	0.3768174
##	[644,]	-0.6350171	0.9924396	1.1959007	-0.9910356	0.3768174
##	[645,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
##	[646,]	-0.6350171	-0.6467493	1.1959007	1.6453454	1.1848546
##	[647,]	0.2122316	0.9924396	0.3148943	-0.1122420	0.3768174
##	[648,]	1.0594802	0.9924396	-0.5661120	-0.9910356	1.1848546
##	[649,]	0.2122316	-0.6467493	-0.5661120	-0.9910356	-0.4312199
##	[650,]	-0.6350171	0.1728452	0.3148943	-0.1122420	-1.2392572
##	[651,]	-1.4822657	0.9924396	-0.5661120	0.7665517	1.1848546
##	[652,]	-0.6350171	-0.6467493	0.3148943	2.5241391	1.1848546
##	[653,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	1.1848546
##	[654,]	1.0594802	0.9924396	0.3148943	2.5241391	0.3768174
##	[655,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	0.3768174
##	[656,]	-0.6350171	0.1728452	-1.4471183	-0.9910356	-1.2392572
##	[657,]	-0.6350171	-0.6467493	0.3148943	0.7665517	-0.4312199
##	[658,]	1.0594802	0.9924396	0.3148943	-0.9910356	-0.4312199
##	[659,]	1.0594802	0.9924396	1.1959007	0.7665517	-0.4312199
##	[660,]	-1.4822657	-2.2859383	0.3148943	0.7665517	-0.4312199
##	[661,]	1.0594802	0.9924396	0.3148943	-0.1122420	-1.2392572
##	[662,]	-0.6350171	0.1728452	-1.4471183	-0.9910356	-0.4312199
##	[663,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	-0.4312199
##	[664,]	1.0594802	0.9924396	-0.5661120	0.7665517	0.3768174
##	[665,]	1.0594802	0.1728452	0.3148943	1.6453454	0.3768174
##	[666,]	-1.4822657	-0.6467493	0.3148943	0.7665517	-1.2392572
##	[667,]	-0.6350171	0.1728452	0.3148943	-0.1122420	-1.2392572
##	[668,]	-1.4822657	-1.4663438	1.1959007	-0.1122420	-1.2392572
##	[669,]	0.2122316	-0.6467493	1.1959007	-0.9910356	-1.2392572
##	[670,]	0.2122316	0.1728452	-1.4471183	-0.1122420	0.3768174
##	[671,]	-0.6350171	-0.6467493	0.3148943	0.7665517	-0.4312199
##	[672,]	-0.6350171	-1.4663438	0.3148943	-0.1122420	0.3768174
##	[673,]	-0.6350171	-1.4663438	0.3148943	-0.1122420	-2.0472944
##	[674,]	-0.6350171	-0.6467493	-0.5661120	-0.1122420	-2.0472944
##	[675,]	-1.4822657	0.9924396	1.1959007	-0.9910356	-1.2392572
##	[676,]	1.0594802	0.9924396	-2.3281247	-0.9910356	-0.4312199

##	[677,]	-0.6350171	0.1728452	1.1959007	-0.9910356	-0.4312199
##	[678,]	1.0594802	0.9924396	1.1959007	0.7665517	-0.4312199
##	[679,]	1.0594802	0.9924396	1.1959007	0.7665517	-0.4312199
##	[680,]	1.0594802	0.9924396	1.1959007	-0.9910356	-2.0472944
##	[681,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
##	[682,]	0.2122316	0.1728452	0.3148943	-0.1122420	0.3768174
##	[683,]	1.0594802	0.1728452	0.3148943	0.7665517	1.1848546
##	[684,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[685,]	1.0594802	-0.6467493	-2.3281247	-0.9910356	-1.2392572
##	[686,]	1.0594802	-2.2859383	0.3148943	0.7665517	0.3768174
##	[687,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	-0.4312199
##	[688,]	0.2122316	0.9924396	-0.5661120	-0.9910356	0.3768174
##	[689,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-2.0472944
##	[690,]	-0.6350171	0.9924396	1.1959007	0.7665517	1.1848546
##	[691,]	-1.4822657	-0.6467493	-0.5661120	1.6453454	0.3768174
##	[692,]	1.0594802	0.1728452	-1.4471183	-0.1122420	-1.2392572
##	[693,]	-0.6350171	0.1728452	1.1959007	0.7665517	1.1848546
##	[694,]	-0.6350171	-0.6467493	-2.3281247	-0.9910356	-0.4312199
##	[695,]	0.2122316	0.1728452	1.1959007	-0.1122420	0.3768174
##	[696,]	1.0594802	0.9924396	-0.5661120	-0.9910356	1.1848546
##	[697,]	1.0594802	-0.6467493	1.1959007	-0.9910356	-1.2392572
##	[698,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	1.1848546
##	[699,]	0.2122316	-0.6467493	-1.4471183	-0.9910356	0.3768174
##	[700,]	0.2122316	0.9924396	-1.4471183	-0.9910356	-2.0472944
##	[701,]	1.0594802	0.9924396	0.3148943	-0.9910356	1.1848546
##	[702,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
##	[703,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
##	[704,]	0.2122316	0.1728452	0.3148943	2.5241391	1.1848546
##	[705,]	1.0594802	0.1728452	-0.5661120	-0.9910356	-0.4312199
##	[706,]	0.2122316	0.9924396	1.1959007	-0.1122420	0.3768174
##	[707,]	-1.4822657	-0.6467493	0.3148943	-0.1122420	0.3768174
##	[708,]	-0.6350171	-1.4663438	1.1959007	-0.1122420	-0.4312199
##	[709,]	-0.6350171	-0.6467493	-0.5661120	-0.9910356	1.1848546
##	[710,]	1.0594802	0.1728452	-1.4471183	-0.1122420	-0.4312199
##	[711,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
##	[712,]	0.2122316	0.1728452	1.1959007	0.7665517	-0.4312199
##	[713,]	0.2122316	0.9924396	-1.4471183	-0.9910356	1.1848546
##	[714,]	-2.3295144	-2.2859383	1.1959007	0.7665517	-1.2392572
##	[715,]	1.0594802	0.9924396	0.3148943	-0.9910356	-1.2392572
##	[716,]	0.2122316	0.9924396	0.3148943	-0.1122420	0.3768174
##	[717,]	-0.6350171	-0.6467493	1.1959007	1.6453454	0.3768174
##	[718,]	-0.6350171	-0.6467493	-0.5661120	-0.9910356	-0.4312199
##	[719,]	-0.6350171	-1.4663438	0.3148943	1.6453454	1.1848546
##	[720,]	-0.6350171	-0.6467493	1.1959007	0.7665517	0.3768174
##	[721,]	1.0594802	0.9924396	0.3148943	-0.9910356	0.3768174
##	[722,]	-0.6350171	-0.6467493	0.3148943	-0.9910356	0.3768174
##	[723,]	1.0594802	0.1728452	1.1959007	-0.1122420	-2.0472944
##	[724,]	1.0594802	0.9924396	0.3148943	-0.1122420	-1.2392572
##	[725,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-0.4312199
##	[726,]	-2.3295144	-2.2859383	0.3148943	-0.9910356	-0.4312199

##	[727,]	-0.6350171	0.1728452	-2.3281247	-0.1122420	1.1848546
##	[728,]	0.2122316	0.1728452	0.3148943	1.6453454	1.1848546
##	[729,]	0.2122316	0.1728452	1.1959007	-0.9910356	1.1848546
##	[730,]	0.2122316	0.1728452	0.3148943	1.6453454	0.3768174
##	[731,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	-0.4312199
##	[732,]	-0.6350171	0.1728452	0.3148943	-0.9910356	-1.2392572
##	[733,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	1.1848546
##	[734,]	1.0594802	0.1728452	0.3148943	0.7665517	-1.2392572
##	[735,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
##	[736,]	-0.6350171	-2.2859383	0.3148943	-0.1122420	-1.2392572
##	[737,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
##	[738,]	0.2122316	0.9924396	-1.4471183	-0.9910356	-0.4312199
##	[739,]	-2.3295144	-1.4663438	-1.4471183	1.6453454	1.1848546
##	[740,]	1.0594802	0.9924396	0.3148943	2.5241391	1.1848546
##	[741,]	-0.6350171	-0.6467493	0.3148943	0.7665517	1.1848546
##	[742,]	1.0594802	0.1728452	-0.5661120	-0.9910356	-0.4312199
##	[743,]	1.0594802	0.9924396	0.3148943	2.5241391	1.1848546
##	[744,]	0.2122316	0.1728452	0.3148943	-0.1122420	-1.2392572
##	[745,]	-0.6350171	0.1728452	1.1959007	1.6453454	1.1848546
##	[746,]	0.2122316	0.9924396	1.1959007	-0.1122420	0.3768174
##	[747,]	-0.6350171	0.1728452	-1.4471183	-0.9910356	0.3768174
##	[748,]	1.0594802	0.9924396	1.1959007	-0.9910356	0.3768174
##	[749,]	1.0594802	0.9924396	1.1959007	0.7665517	-0.4312199
##	[750,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	0.3768174
##	[751,]	1.0594802	0.9924396	1.1959007	0.7665517	-0.4312199
##	[752,]	0.2122316	-1.4663438	-0.5661120	-0.9910356	1.1848546
##	[753,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	-1.2392572
##	[754,]	1.0594802	0.9924396	0.3148943	-0.1122420	-1.2392572
##	[755,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	1.1848546
##	[756,]	-1.4822657	-2.2859383	-2.3281247	-0.1122420	-2.0472944
##	[757,]	0.2122316	0.1728452	0.3148943	1.6453454	1.1848546
##	[758,]	-1.4822657	-0.6467493	1.1959007	0.7665517	-1.2392572
##	[759,]	1.0594802	0.9924396	0.3148943	-0.1122420	1.1848546
##	[760,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
##	[761,]	-1.4822657	0.1728452	-0.5661120	-0.1122420	-0.4312199
##	[762,]	-2.3295144	-2.2859383	-1.4471183	-0.9910356	1.1848546
##	[763,]	-1.4822657	-1.4663438	0.3148943	0.7665517	1.1848546
##	[764,]	-1.4822657	0.9924396	1.1959007	-0.1122420	-0.4312199
##	[765,]	0.2122316	0.1728452	0.3148943	-0.9910356	-0.4312199
##	[766,]	0.2122316	0.1728452	-0.5661120	-0.1122420	1.1848546
##	[767,]	-0.6350171	0.1728452	0.3148943	1.6453454	0.3768174
##	[768,]	0.2122316	0.1728452	0.3148943	1.6453454	0.3768174
##	[769,]	-0.6350171	-0.6467493	-0.5661120	-0.9910356	1.1848546
##	[770,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[771,]	-2.3295144	0.9924396	1.1959007	1.6453454	-0.4312199
##	[772,]	-0.6350171	-0.6467493	0.3148943	0.7665517	1.1848546
##	[773,]	0.2122316	-0.6467493	-1.4471183	-0.9910356	-0.4312199
##	[774,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
##	[775,]	0.2122316	-1.4663438	0.3148943	0.7665517	0.3768174
##	[776,]	0.2122316	0.9924396	1.1959007	-0.1122420	-0.4312199

## [777,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
## [778,]	0.2122316	0.1728452	-2.3281247	-0.1122420	0.3768174
## [779,]	0.2122316	-0.6467493	-1.4471183	-0.9910356	-1.2392572
## [780,]	1.0594802	0.9924396	1.1959007	0.7665517	-0.4312199
## [781,]	-0.6350171	0.1728452	1.1959007	0.7665517	0.3768174
## [782,]	1.0594802	0.9924396	1.1959007	-0.9910356	-1.2392572
## [783,]	-0.6350171	0.1728452	1.1959007	2.5241391	0.3768174
## [784,]	1.0594802	0.9924396	1.1959007	2.5241391	1.1848546
## [785,]	0.2122316	0.9924396	-0.5661120	-0.9910356	0.3768174
## [786,]	-1.4822657	-0.6467493	-1.4471183	-0.1122420	1.1848546
## [787,]	-0.6350171	0.1728452	0.3148943	-0.9910356	1.1848546
## [788,]	1.0594802	0.9924396	-0.5661120	-0.1122420	0.3768174
## [789,]	0.2122316	0.1728452	-1.4471183	-0.9910356	-2.0472944
## [790,]	1.0594802	0.1728452	-0.5661120	-0.9910356	-0.4312199
## [791,]	-1.4822657	0.9924396	1.1959007	-0.1122420	0.3768174
## [792,]	0.2122316	0.1728452	1.1959007	-0.9910356	-0.4312199
## [793,]	-1.4822657	-2.2859383	0.3148943	0.7665517	1.1848546
## [794,]	-0.6350171	-0.6467493	-0.5661120	0.7665517	0.3768174
## [795,]	-1.4822657	-1.4663438	-1.4471183	-0.9910356	1.1848546
## [796,]	-1.4822657	0.1728452	-1.4471183	1.6453454	-1.2392572
## [797,]	-1.4822657	-0.6467493	-0.5661120	0.7665517	-0.4312199
## [798,]	1.0594802	-0.6467493	-1.4471183	-0.1122420	1.1848546
## [799,]	-0.6350171	-0.6467493	-0.5661120	1.6453454	1.1848546
## [800,]	-0.6350171	0.1728452	1.1959007	0.7665517	-0.4312199
## [801,]	-0.6350171	0.9924396	-2.3281247	-0.1122420	1.1848546
## [802,]	-1.4822657	-0.6467493	0.3148943	-0.1122420	1.1848546
## [803,]	0.2122316	0.9924396	0.3148943	-0.9910356	0.3768174
## [804,]	-0.6350171	-1.4663438	-1.4471183	-0.9910356	-1.2392572
## [805,]	1.0594802	0.9924396	-0.5661120	-0.1122420	1.1848546
## [806,]	0.2122316	0.9924396	0.3148943	-0.9910356	-1.2392572
## [807,]	-1.4822657	-0.6467493	0.3148943	0.7665517	1.1848546
## [808,]	0.2122316	0.1728452	1.1959007	1.6453454	1.1848546
## [809,]	1.0594802	0.9924396	0.3148943	-0.1122420	1.1848546
## [810,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	1.1848546
## [811,]	1.0594802	0.9924396	0.3148943	1.6453454	1.1848546
## [812,]	-0.6350171	-0.6467493	1.1959007	-0.1122420	-1.2392572
## [813,]	-2.3295144	-2.2859383	-1.4471183	-0.9910356	0.3768174
## [814,]	-2.3295144	-1.4663438	-0.5661120	-0.9910356	1.1848546
## [815,]	0.2122316	0.1728452	-0.5661120	0.7665517	0.3768174
## [816,]	0.2122316	-0.6467493	1.1959007	2.5241391	1.1848546
## [817,]	0.2122316	0.9924396	1.1959007	-0.1122420	-2.0472944
## [818,]	0.2122316	0.9924396	-2.3281247	1.6453454	-0.4312199
## [819,]	-0.6350171	0.1728452	1.1959007	1.6453454	1.1848546
## [820,]	-0.6350171	-1.4663438	1.1959007	-0.9910356	-1.2392572
## [821,]	-0.6350171	-1.4663438	-0.5661120	1.6453454	-1.2392572
## [822,]	1.0594802	0.9924396	-0.5661120	0.7665517	1.1848546
## [823,]	-0.6350171	0.1728452	-1.4471183	-0.1122420	-0.4312199
## [824,]	-0.6350171	-1.4663438	1.1959007	-0.9910356	1.1848546
## [825,]	1.0594802	0.9924396	1.1959007	1.6453454	-0.4312199
## [826,]	1.0594802	0.9924396	1.1959007	-0.1122420	-1.2392572

##	[827,]	0.2122316	0.1728452	-0.5661120	-0.1122420	-1.2392572
##	[828,]	0.2122316	-1.4663438	-1.4471183	-0.1122420	-2.0472944
##	[829,]	-1.4822657	-0.6467493	-0.5661120	-0.1122420	1.1848546
##	[830,]	0.2122316	0.1728452	-1.4471183	-0.1122420	1.1848546
##	[831,]	-1.4822657	-1.4663438	1.1959007	-0.9910356	-1.2392572
##	[832,]	0.2122316	0.1728452	-0.5661120	0.7665517	0.3768174
##	[833,]	1.0594802	0.9924396	1.1959007	-0.1122420	-0.4312199
##	[834,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	-0.4312199
##	[835,]	-0.6350171	-0.6467493	0.3148943	0.7665517	0.3768174
##	[836,]	-0.6350171	-0.6467493	0.3148943	2.5241391	1.1848546
##	[837,]	0.2122316	0.1728452	-0.5661120	0.7665517	-0.4312199
##	[838,]	1.0594802	0.9924396	1.1959007	2.5241391	0.3768174
##	[839,]	0.2122316	0.9924396	-1.4471183	-0.9910356	0.3768174
##	[840,]	1.0594802	0.9924396	-1.4471183	-0.1122420	-1.2392572
##	[841,]	0.2122316	-0.6467493	-1.4471183	-0.9910356	-0.4312199
##	[842,]	-0.6350171	0.9924396	-1.4471183	-0.1122420	0.3768174
##	[843,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	1.1848546
##	[844,]	0.2122316	0.1728452	1.1959007	-0.1122420	-0.4312199
##	[845,]	-0.6350171	-1.4663438	1.1959007	0.7665517	1.1848546
##	[846,]	1.0594802	0.9924396	-0.5661120	-0.9910356	-1.2392572
##	[847,]	-1.4822657	0.1728452	0.3148943	-0.1122420	-0.4312199
##	[848,]	1.0594802	0.9924396	0.3148943	-0.9910356	-1.2392572
##	[849,]	-2.3295144	-1.4663438	-2.3281247	-0.9910356	-0.4312199
##	[850,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
##	[851,]	1.0594802	0.9924396	1.1959007	-0.9910356	0.3768174
##	[852,]	-0.6350171	-0.6467493	1.1959007	-0.1122420	1.1848546
##	[853,]	-0.6350171	-0.6467493	0.3148943	-0.1122420	1.1848546
##	[854,]	1.0594802	-0.6467493	0.3148943	1.6453454	-0.4312199
##	[855,]	-1.4822657	-1.4663438	-0.5661120	-0.9910356	0.3768174
##	[856,]	0.2122316	0.1728452	1.1959007	1.6453454	1.1848546
##	[857,]	-0.6350171	-1.4663438	0.3148943	1.6453454	1.1848546
##	[858,]	1.0594802	0.9924396	-0.5661120	0.7665517	0.3768174
##	[859,]	1.0594802	0.9924396	0.3148943	2.5241391	1.1848546
##	[860,]	0.2122316	0.1728452	0.3148943	-0.1122420	0.3768174
##	[861,]	0.2122316	0.1728452	0.3148943	-0.1122420	0.3768174
##	[862,]	0.2122316	0.1728452	-1.4471183	-0.9910356	1.1848546
##	[863,]	1.0594802	0.1728452	0.3148943	0.7665517	1.1848546
##	[864,]	1.0594802	0.1728452	-1.4471183	-0.9910356	0.3768174
##	[865,]	1.0594802	0.9924396	-0.5661120	0.7665517	0.3768174
##	[866,]	-1.4822657	-0.6467493	-1.4471183	1.6453454	-1.2392572
##	[867,]	-1.4822657	-0.6467493	0.3148943	1.6453454	0.3768174
##	[868,]	-0.6350171	0.1728452	0.3148943	-0.1122420	0.3768174
##	[869,]	-0.6350171	0.1728452	-2.3281247	-0.1122420	0.3768174
##	[870,]	1.0594802	0.9924396	1.1959007	-0.1122420	-1.2392572
##	[871,]	-0.6350171	0.1728452	-1.4471183	-0.1122420	-1.2392572
##	[872,]	0.2122316	0.9924396	0.3148943	-0.1122420	0.3768174
##	[873,]	-1.4822657	-0.6467493	-0.5661120	-0.1122420	0.3768174
##	[874,]	-0.6350171	-0.6467493	1.1959007	-0.1122420	0.3768174
##	[875,]	-1.4822657	-0.6467493	-1.4471183	-0.9910356	0.3768174
##	[876,]	0.2122316	0.1728452	-0.5661120	-0.9910356	1.1848546

##	[877,]	0.2122316	0.9924396	0.3148943	-0.1122420	0.3768174
##	[878,]	-0.6350171	0.1728452	1.1959007	-0.9910356	1.1848546
##	[879,]	0.2122316	0.1728452	-1.4471183	-0.1122420	0.3768174
##	[880,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	1.1848546
##	[881,]	-1.4822657	-0.6467493	-1.4471183	-0.9910356	1.1848546
##	[882,]	1.0594802	0.9924396	1.1959007	-0.1122420	-1.2392572
##	[883,]	0.2122316	0.1728452	-2.3281247	-0.9910356	-0.4312199
##	[884,]	1.0594802	0.1728452	-1.4471183	-0.9910356	0.3768174
##	[885,]	1.0594802	0.9924396	0.3148943	-0.9910356	1.1848546
##	[886,]	0.2122316	0.1728452	-0.5661120	-0.9910356	-1.2392572
##	[887,]	-2.3295144	-1.4663438	-2.3281247	-0.9910356	1.1848546
##	[888,]	0.2122316	-1.4663438	-0.5661120	0.7665517	0.3768174
##	[889,]	0.2122316	-2.2859383	0.3148943	-0.1122420	-1.2392572
##	[890,]	0.2122316	0.1728452	1.1959007	-0.1122420	-0.4312199
##	[891,]	-1.4822657	-1.4663438	-2.3281247	-0.1122420	1.1848546
##	[892,]	0.2122316	0.9924396	0.3148943	0.7665517	1.1848546
##	[893,]	-0.6350171	0.1728452	0.3148943	-0.9910356	-0.4312199
##	[894,]	-0.6350171	-1.4663438	0.3148943	0.7665517	-1.2392572
##	[895,]	1.0594802	0.9924396	0.3148943	-0.1122420	-1.2392572
##	[896,]	-0.6350171	-0.6467493	-0.5661120	-0.1122420	0.3768174
##	[897,]	-1.4822657	-1.4663438	-0.5661120	-0.1122420	-0.4312199
##	[898,]	-0.6350171	-1.4663438	-0.5661120	0.7665517	-1.2392572
##	[899,]	-0.6350171	-0.6467493	1.1959007	0.7665517	-2.0472944
##	[900,]	-1.4822657	-0.6467493	0.3148943	-0.1122420	-1.2392572
##	[901,]	0.2122316	-0.6467493	-1.4471183	-0.9910356	1.1848546
##	[902,]	-1.4822657	-1.4663438	0.3148943	-0.1122420	0.3768174
##	[903,]	-1.4822657	-0.6467493	1.1959007	1.6453454	-0.4312199
##	[904,]	-0.6350171	0.1728452	0.3148943	0.7665517	-0.4312199
##	[905,]	0.2122316	0.1728452	-0.5661120	-0.9910356	-0.4312199
##	[906,]	0.2122316	0.1728452	1.1959007	0.7665517	1.1848546
##	[907,]	1.0594802	0.9924396	1.1959007	-0.9910356	-1.2392572
##	[908,]	1.0594802	0.9924396	-0.5661120	-0.1122420	0.3768174
##	[909,]	-0.6350171	-1.4663438	0.3148943	0.7665517	-0.4312199
##	[910,]	0.2122316	-0.6467493	-1.4471183	-0.1122420	-0.4312199
##	[911,]	1.0594802	0.9924396	1.1959007	-0.1122420	1.1848546
##	[912,]	0.2122316	0.1728452	1.1959007	-0.9910356	1.1848546
##	[913,]	-1.4822657	-0.6467493	0.3148943	-0.1122420	-0.4312199
##	[914,]	-0.6350171	0.1728452	0.3148943	0.7665517	0.3768174
##	[915,]	0.2122316	-0.6467493	-0.5661120	0.7665517	-1.2392572
##	[916,]	0.2122316	0.9924396	-1.4471183	0.7665517	-1.2392572
##	[917,]	-2.3295144	-2.2859383	-2.3281247	-0.1122420	-0.4312199
##	[918,]	-2.3295144	-1.4663438	-0.5661120	1.6453454	0.3768174
##	[919,]	0.2122316	-0.6467493	-1.4471183	-0.9910356	-0.4312199
##	[920,]	1.0594802	0.1728452	0.3148943	-0.1122420	-0.4312199
##	[921,]	-0.6350171	-0.6467493	-0.5661120	-0.9910356	-0.4312199
##	[922,]	-0.6350171	-0.6467493	-2.3281247	-0.1122420	-0.4312199
##	[923,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	1.1848546
##	[924,]	1.0594802	0.9924396	0.3148943	-0.1122420	-1.2392572
##	[925,]	1.0594802	0.9924396	0.3148943	-0.9910356	-2.0472944
##	[926,]	0.2122316	0.1728452	-1.4471183	-0.9910356	-2.0472944

##	[927,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	1.1848546
##	[928,]	1.0594802	0.9924396	-0.5661120	-0.9910356	0.3768174
##	[929,]	1.0594802	0.9924396	1.1959007	-0.1122420	-0.4312199
##	[930,]	0.2122316	0.1728452	-0.5661120	0.7665517	-0.4312199
##	[931,]	1.0594802	0.9924396	-0.5661120	-0.1122420	-0.4312199
##	[932,]	1.0594802	0.1728452	-0.5661120	1.6453454	1.1848546
##	[933,]	1.0594802	0.1728452	-1.4471183	-0.9910356	-0.4312199
##	[934,]	0.2122316	0.1728452	0.3148943	-0.1122420	-1.2392572
##	[935,]	-0.6350171	-1.4663438	-1.4471183	-0.1122420	0.3768174
##	[936,]	1.0594802	-0.6467493	-1.4471183	-0.9910356	-1.2392572
##	[937,]	0.2122316	-0.6467493	-0.5661120	0.7665517	0.3768174
##	[938,]	0.2122316	0.9924396	-0.5661120	2.5241391	1.1848546
##	[939,]	1.0594802	0.1728452	1.1959007	-0.9910356	1.1848546
##	[940,]	-0.6350171	0.9924396	0.3148943	-0.1122420	-2.0472944
##	[941,]	0.2122316	-0.6467493	1.1959007	1.6453454	1.1848546
##	[942,]	-0.6350171	-0.6467493	-1.4471183	-0.9910356	0.3768174
##	[943,]	0.2122316	-1.4663438	-0.5661120	1.6453454	0.3768174
##	[944,]	-0.6350171	0.9924396	0.3148943	-0.1122420	-0.4312199
##	[945,]	1.0594802	0.9924396	-0.5661120	-0.9910356	1.1848546
##	[946,]	-0.6350171	0.9924396	-1.4471183	1.6453454	1.1848546
##	[947,]	1.0594802	0.9924396	-0.5661120	0.7665517	1.1848546
##	[948,]	0.2122316	0.1728452	-1.4471183	-0.9910356	-0.4312199
##	[949,]	1.0594802	0.9924396	0.3148943	0.7665517	-0.4312199
##	[950,]	1.0594802	0.9924396	1.1959007	-0.9910356	1.1848546
##	[951,]	-0.6350171	0.1728452	-1.4471183	1.6453454	1.1848546
##	[952,]	-1.4822657	0.1728452	-1.4471183	-0.1122420	1.1848546
##	[953,]	1.0594802	0.9924396	0.3148943	1.6453454	0.3768174
##	[954,]	0.2122316	0.9924396	0.3148943	-0.1122420	0.3768174
##	[955,]	1.0594802	-0.6467493	0.3148943	-0.1122420	0.3768174
##	[956,]	-0.6350171	-0.6467493	1.1959007	-0.9910356	1.1848546
##	[957,]	-0.6350171	0.1728452	0.3148943	2.5241391	1.1848546
##	[958,]	-0.6350171	-1.4663438	-0.5661120	-0.1122420	1.1848546
##	[959,]	-1.4822657	-1.4663438	-0.5661120	-0.1122420	-1.2392572
##	[960,]	1.0594802	0.9924396	0.3148943	-0.1122420	0.3768174
##	[961,]	-0.6350171	-1.4663438	0.3148943	0.7665517	0.3768174
##	[962,]	0.2122316	0.1728452	1.1959007	0.7665517	0.3768174
##	[963,]	-0.6350171	0.1728452	1.1959007	-0.1122420	-2.0472944
##	[964,]	1.0594802	0.9924396	1.1959007	-0.9910356	0.3768174
##	[965,]	0.2122316	0.1728452	0.3148943	0.7665517	0.3768174
##	[966,]	1.0594802	0.9924396	1.1959007	0.7665517	1.1848546
##	[967,]	1.0594802	0.9924396	-2.3281247	-0.1122420	-2.0472944
##	[968,]	0.2122316	0.9924396	1.1959007	2.5241391	1.1848546
##	[969,]	-0.6350171	0.1728452	0.3148943	-0.1122420	0.3768174
##	[970,]	1.0594802	0.9924396	-1.4471183	-0.1122420	1.1848546
##	[971,]	1.0594802	0.9924396	-0.5661120	0.7665517	0.3768174
##	[972,]	0.2122316	0.1728452	0.3148943	-0.1122420	0.3768174
##	[973,]	0.2122316	0.1728452	0.3148943	-0.9910356	0.3768174
##	[974,]	1.0594802	0.9924396	1.1959007	0.7665517	-2.0472944
##	[975,]	-0.6350171	-0.6467493	1.1959007	-0.1122420	0.3768174
##	[976,]	-0.6350171	0.9924396	1.1959007	0.7665517	-0.4312199

```

## [977,]      0.2122316  0.9924396  0.3148943  0.7665517  0.3768174
## [978,]     -0.6350171 -1.4663438 -0.5661120  0.7665517 -1.2392572
## [979,]      1.0594802  0.9924396 -0.5661120 -0.1122420  0.3768174
## [980,]      1.0594802  0.9924396  0.3148943 -0.1122420  1.1848546
## [981,]     -1.4822657 -1.4663438 -0.5661120 -0.1122420 -0.4312199
## [982,]     -0.6350171  0.1728452 -1.4471183 -0.1122420 -0.4312199
## [983,]     -1.4822657 -0.6467493 -1.4471183 -0.9910356 -0.4312199
## [984,]      1.0594802  0.9924396 -2.3281247 -0.9910356 -1.2392572
## [985,]     -0.6350171 -0.6467493 -0.5661120 -0.9910356 -1.2392572
## [986,]      0.2122316  0.9924396 -2.3281247 -0.9910356 -1.2392572
## [987,]      0.2122316 -0.6467493  1.1959007 -0.1122420 -2.0472944
## [988,]     -1.4822657 -0.6467493  0.3148943  0.7665517 -1.2392572
## [989,]      1.0594802 -1.4663438  1.1959007 -0.1122420 -0.4312199
## [990,]      1.0594802 -0.6467493 -0.5661120  0.7665517 -0.4312199
## [991,]     -1.4822657 -1.4663438  1.1959007  1.6453454  0.3768174
## [992,]     -2.3295144 -2.2859383  0.3148943  0.7665517  1.1848546
## [993,]      0.2122316  0.1728452  0.3148943  0.7665517  0.3768174
## [994,]      1.0594802  0.9924396 -1.4471183 -0.9910356 -1.2392572
## [995,]      1.0594802  0.9924396  1.1959007 -0.9910356 -0.4312199
## [996,]     -0.6350171 -0.6467493  0.3148943 -0.9910356  0.3768174
## [997,]     -0.6350171 -1.4663438 -0.5661120 -0.1122420  0.3768174
## [998,]      1.0594802 -1.4663438 -0.5661120 -0.1122420 -0.4312199
## [999,]      0.2122316  0.9924396  0.3148943  1.6453454  1.1848546
## [1000,]     -0.6350171  0.1728452  1.1959007 -0.1122420  1.1848546
## [1001,]      1.0594802  0.9924396 -0.5661120 -0.1122420 -1.2392572
## [1002,]     -0.6350171 -0.6467493 -1.4471183 -0.1122420 -0.4312199
## [1003,]     -1.4822657 -1.4663438 -1.4471183 -0.1122420 -0.4312199
## [1004,]     -0.6350171 -0.6467493  0.3148943 -0.1122420  0.3768174
## [1005,]      0.2122316  0.9924396 -0.5661120  0.7665517 -0.4312199
## [1006,]      1.0594802  0.9924396 -1.4471183 -0.9910356  0.3768174
## [1007,]     -2.3295144  0.9924396  1.1959007 -0.1122420  1.1848546
## [1008,]      0.2122316  0.1728452 -0.5661120 -0.9910356 -0.4312199
## [1009,]      1.0594802  0.9924396 -0.5661120 -0.9910356  0.3768174
## [1010,]      0.2122316 -1.4663438  0.3148943 -0.9910356  0.3768174
## attr(,"scaled:center")
##           Horror           Thriller           Comedy
Romantic
##           2.792079           3.382178           4.496040
3.489109
##           Sci.fi           War Fantasy.Fairy.tales
Animated
##           3.108911           3.155446           3.749505
3.789109
##           Documentary       Western           Action
##           3.642574           2.127723           3.533663
## attr(,"scaled:scale")
##           Horror           Thriller           Comedy
Romantic
##           1.4108235           1.1981482           0.7791155
1.2079930

```

```

##           Sci.fi           War Fantasy.Fairy.tales
Animated
##           1.3139564           1.3498871           1.1802911
1.2201156
##           Documentary           Western           Action
##           1.1350656           1.1379235           1.2375667

#as.matrix(scale.hobbies)%*%fact.Load.hobbies%%solve(t(fact.Load.hobbies)%*%
fact.Load.hobbies)

fit.pc.movies<- principal(movie_transformed[-1], nfactors=4,
rotate="varimax")
fit.pc.movies

## Principal Components Analysis
## Call: principal(r = movie_transformed[-1], nfactors = 4, rotate =
"varimax")
## Standardized loadings (pattern matrix) based upon correlation matrix
##           RC1   RC2   RC3   RC4   h2   u2 com
## Horror           0.05 -0.02  0.86  0.03 0.74 0.26 1.0
## Thriller          0.21 -0.01  0.82 -0.09 0.72 0.28 1.2
## Comedy            0.11  0.12  0.06  0.82 0.70 0.30 1.1
## Romantic          -0.21  0.32 -0.21  0.59 0.54 0.46 2.1
## Sci.fi             0.61  0.00  0.22  0.14 0.44 0.56 1.4
## War                0.66  0.00  0.11 -0.23 0.50 0.50 1.3
## Fantasy.Fairy.tales -0.05  0.87 -0.06  0.19 0.80 0.20 1.1
## Animated           0.01  0.87  0.07  0.13 0.78 0.22 1.1
## Documentary         0.48  0.39 -0.18 -0.33 0.52 0.48 3.1
## Western            0.73  0.01 -0.05 -0.11 0.55 0.45 1.1
## Action             0.69 -0.11  0.20  0.22 0.57 0.43 1.4
##
##           RC1   RC2   RC3   RC4
## SS loadings      2.15 1.80 1.60 1.33
## Proportion Var    0.20 0.16 0.15 0.12
## Cumulative Var    0.20 0.36 0.50 0.62
## Proportion Explained 0.31 0.26 0.23 0.19
## Cumulative Proportion 0.31 0.57 0.81 1.00
##
## Mean item complexity = 1.4
## Test of the hypothesis that 4 components are sufficient.
##
## The root mean square of the residuals (RMSR) is 0.09
## with the empirical chi square 916.68 with prob < 5.8e-184
##
## Fit based upon off diagonal values = 0.81

round(fit.pc.movies$values, 3)

## [1] 2.491 2.000 1.386 0.994 0.798 0.749 0.674 0.595 0.585 0.424 0.306

fit.pc.movies$loadings

```

```
##
## Loadings:
##           RC1    RC2    RC3    RC4
## Horror                0.859
## Thriller            0.206    0.816
## Comedy              0.110    0.117    0.821
## Romantic           -0.213    0.321 -0.205    0.593
## Sci.fi              0.609                0.222    0.139
## War                 0.661                0.113 -0.235
## Fantasy.Fairy.tales           0.873                0.190
## Animated            0.873                0.127
## Documentary         0.476    0.386 -0.182 -0.328
## Western              0.730                -0.106
## Action              0.688 -0.110    0.197    0.216
##
##           RC1    RC2    RC3    RC4
## SS loadings  2.145 1.802 1.596 1.327
## Proportion Var 0.195 0.164 0.145 0.121
## Cumulative Var 0.195 0.359 0.504 0.625

# Loadings with more digits
for (i in c(1,3,2,4)) { print(fit.pc.movies$loadings[[1,i]])}

## [1] 0.04840021
## [1] 0.8593561
## [1] -0.01548186
## [1] 0.03258734

# Communalities
fit.pc.movies$communality

##           Horror                Thriller                Comedy
Romantic
##           0.7421372                0.7168332                0.7039137
0.5417855
##           Sci.fi                War Fantasy.Fairy.tales
Animated
##           0.4399539                0.5044557                0.8040352
0.7832244
##           Documentary                Western                Action
##           0.5162718                0.5477333                0.5706387

# Rotated factor scores, Notice the columns ordering: RC1, RC3, RC2 and RC4
fit.pc.hobbies$scores

##           RC1                RC2                RC3                RC4
## [1,] -0.013510277  0.4653126347  0.917318248  0.3105168598
## [2,]  0.133862917 -0.1379748048 -1.738352054 -1.1610100427
## [3,]  1.956079019 -0.3301226183 -0.431162349  0.3823538415
## [4,]  1.459731308 -1.7092300568 -1.063138469 -1.8472695001
## [5,] -0.304038372 -1.2511368710  0.513893953 -0.7516882539
```

```
## [6,] -0.310119912 0.5700252284 0.961317222 -1.3779489423
## [7,] -0.832481547 -0.6185245510 1.863435585 0.6647612899
## [8,] -1.246746643 -0.3306023215 -0.665115403 0.2609972209
## [9,] -1.037982087 -2.9315306246 -0.248073698 -0.0649522268
## [10,] 1.083461655 -0.3913669616 -0.949061694 0.6661685406
## [11,] -0.137667093 0.0803661872 -0.778955546 0.3006072080
## [12,] -0.152159766 -0.3342430614 -1.473779928 -0.7695700908
## [13,] -0.004065369 -0.8442354420 1.588221071 0.0730379195
## [14,] -0.491047636 -0.8813027109 -0.593901992 1.9540969471
## [15,] 0.242585729 -1.8096864741 -0.376793230 1.4363149855
## [16,] 0.595061201 1.5344083441 0.359551002 -0.6936162427
## [17,] -2.027620450 -0.6932184739 0.959235869 1.1573162668
## [18,] -1.117371071 -1.4586021965 2.028186441 -0.4500616006
## [19,] -0.737913843 0.4149694940 0.389719721 -2.2490305794
## [20,] -0.167344464 0.9145522217 -0.938801743 -0.5959489508
## [21,] -0.117681446 1.1520542400 1.032346374 -1.1167401401
## [22,] 0.387131512 1.1363542400 -0.538191127 -0.5517468872
## [23,] -0.542754237 -0.2811938604 0.044681169 -0.3714159754
## [24,] 0.530078433 -0.1596719869 1.809094600 0.6405676267
## [25,] 1.960569926 1.1387891760 0.061340726 1.4643831482
## [26,] -0.348710702 -0.5491029127 -1.492212078 1.7459694354
## [27,] -0.915943551 0.2670222327 2.233221446 0.9526354413
## [28,] -1.456972909 -0.7702247738 1.525479888 0.2908272231
## [29,] -1.718545502 0.9307869783 -0.482099225 1.5013467879
## [30,] 0.835683390 0.0517686135 0.368146451 1.2492445234
## [31,] -0.056472553 0.4889762704 -0.388286248 0.4254218018
## [32,] 0.561644284 -1.3921198259 -0.437629917 -0.5133050548
## [33,] -0.019360140 -0.3398237218 -1.374666850 0.6835689824
## [34,] 1.352629562 0.9712163093 0.567483236 1.2808919052
## [35,] 0.973155869 1.3087977151 -0.572920172 -0.5196268745
## [36,] 0.078984755 -0.2784430030 -0.786929076 1.5617727016
## [37,] 0.305939085 -0.0748224151 1.451869472 -0.0088067032
## [38,] 0.171508023 0.9208274071 1.261938596 -0.1586765720
## [39,] 1.770997927 -0.1452488779 0.291612074 0.7775731921
## [40,] -1.845052816 0.1445482196 1.860459728 0.1917804267
## [41,] -1.719084954 -0.7586795268 -0.888473457 -0.0247295158
## [42,] 0.322204052 0.7339524662 0.761546083 -2.4132613515
## [43,] -0.200457000 0.6438450173 0.277824858 -0.1594630387
## [44,] 0.962010680 -0.0497351736 -1.555894728 1.1317135722
## [45,] 1.417539675 0.6735736714 -0.451873497 0.6107740806
## [46,] 0.016165179 0.9062337373 -0.158104240 -1.0520495116
## [47,] 0.517266327 0.6574975012 -0.113902625 1.3771539157
## [48,] -0.390855624 -0.8065627046 -0.682165317 0.5000031174
## [49,] 0.347115870 -0.3512491162 -0.121267189 -0.0422368892
## [50,] -1.039321162 -0.8933112877 -1.019117060 0.4200357378
## [51,] -0.577777201 -0.6240603475 1.947796869 0.1606211220
## [52,] 0.002539722 1.4604652159 2.004121501 -1.0849204563
## [53,] 1.344758009 0.3285074773 0.899800910 0.4840387249
## [54,] 1.618807554 0.2036952915 0.404404973 0.5396529611
## [55,] 1.172899765 -0.9619039727 0.681755701 -0.6902013203
```

##	[56,]	0.300931659	0.4323476824	0.501068013	-0.0557240105
##	[57,]	1.408545232	0.1669832772	-1.107841690	-0.7733320151
##	[58,]	0.718143532	-0.8495272546	-0.051947797	1.7376712454
##	[59,]	-1.488770048	0.2408301109	1.903084653	0.2527071721
##	[60,]	0.745067893	-1.9772326454	-2.166309680	-2.0323122208
##	[61,]	2.319296097	0.5278623362	-0.395137348	-1.9903938108
##	[62,]	-0.571214912	0.8104719422	-0.776675758	-0.5227069129
##	[63,]	-0.146087250	2.4536993479	0.168153299	-1.4666819032
##	[64,]	-0.542441131	1.3126998241	-1.028020146	0.3071445207
##	[65,]	-1.058989196	-0.7878184471	1.699681876	0.5844762179
##	[66,]	-1.224949989	-0.3168017885	-0.866861698	-0.8282313286
##	[67,]	-1.454206369	0.8764617192	-0.212368326	-1.2486769023
##	[68,]	0.479115416	-0.6440293934	-0.143642067	0.5173940505
##	[69,]	0.032850124	0.4217842755	-0.031628834	-0.9711987833
##	[70,]	-1.352593272	-1.9475084988	1.456903745	1.1815621191
##	[71,]	-1.003036438	0.6033740831	-1.035838246	0.8226333463
##	[72,]	-0.782629271	0.9831352620	-1.527044442	0.7846540451
##	[73,]	-1.328177826	-0.5474833289	-0.435811795	0.6266140328
##	[74,]	0.277423332	1.2506790920	-0.528300502	0.7921901873
##	[75,]	0.690247740	0.6534347050	-1.676636784	-0.2030782324
##	[76,]	1.568446021	1.4934391520	-0.041334524	0.6820146216
##	[77,]	-0.963576399	1.1045865420	-1.091947565	0.1780052540
##	[78,]	0.214882565	-1.2184290274	1.433697783	1.0988134593
##	[79,]	1.385727483	0.0976762576	1.855899312	0.2323769812
##	[80,]	0.216166374	1.4884701786	-0.986071976	1.1177719476
##	[81,]	-0.313341393	1.1544959759	-0.641851736	1.5241052485
##	[82,]	-0.564755137	1.6249769474	-0.808661928	0.5509253881
##	[83,]	0.652025056	-1.5763494697	-0.127838976	0.1808598037
##	[84,]	-0.365449198	0.3173334058	1.167060309	1.0659832568
##	[85,]	0.922530624	-0.0697978769	0.418700378	0.0872346856
##	[86,]	0.185903058	1.1446543322	0.525508372	-1.0073417944
##	[87,]	2.720359582	1.8578304660	0.593030681	-1.0747556339
##	[88,]	0.823518478	0.4946143863	-1.057520893	1.3664074836
##	[89,]	1.368764269	-1.2001991787	-0.744329673	1.1050032420
##	[90,]	0.411796239	-2.0739947289	-1.017407458	-0.0210240783
##	[91,]	-1.205036011	-1.1827295839	0.345822576	0.0409893042
##	[92,]	-1.491411079	-0.2369227469	0.837321703	1.1768604171
##	[93,]	1.441705454	-1.5311155690	-0.171927279	-0.7855007976
##	[94,]	-1.137772619	1.7827648591	-0.076694797	-1.4721207031
##	[95,]	-0.883024319	-0.0965171465	-0.584592081	-0.9635159773
##	[96,]	-0.348988301	1.4558318229	-0.918227952	0.1590841579
##	[97,]	-2.467997720	-2.3063615842	0.937175445	-1.0323596218
##	[98,]	-0.905125480	0.0303587801	-0.601140621	-1.4812687909
##	[99,]	-0.885126236	0.2306250381	-0.118974054	-0.1733022922
##	[100,]	-0.388144190	-0.3537393048	1.074393329	-0.7222170124
##	[101,]	-0.491002813	-0.0454775759	1.808271846	-0.3115690460
##	[102,]	-0.732665390	-0.6974646247	-1.291117344	-0.8696530648
##	[103,]	2.035260890	0.5292270051	0.720379210	-1.3603197429
##	[104,]	1.402617026	1.2547545944	-0.966305959	0.1682670150
##	[105,]	1.070427901	0.2897204723	-1.080489642	-1.0282445778

##	[106,]	-1.061232219	-0.7422575893	0.263852519	-0.4128183630
##	[107,]	-0.218748880	0.7559727969	-1.335904178	-0.5552673307
##	[108,]	0.465729108	-0.4461629676	1.826809336	-0.0741434528
##	[109,]	-0.542585629	-1.4620706351	-1.015591679	-1.6017016418
##	[110,]	-0.742072123	0.4580454976	-0.756716864	-1.7103588782
##	[111,]	-0.685063255	-0.1058323084	0.559307935	-0.9746678149
##	[112,]	1.270395689	-1.6758856754	0.143847706	-0.0644003065
##	[113,]	0.523375661	-1.6937377990	1.896215666	-0.1208168460
##	[114,]	-2.266732188	-0.1825131103	1.250787133	1.4230237343
##	[115,]	0.555199509	-0.9037580935	-0.439740124	0.6783764339
##	[116,]	0.993458112	0.6565051566	0.739394484	0.6335669695
##	[117,]	0.326342953	-2.7462935566	-0.519107831	-1.1200377308
##	[118,]	-1.679701893	0.0383539341	-0.489253516	-1.0539849713
##	[119,]	-0.038590241	-0.2592561362	-0.218409331	-1.2538697901
##	[120,]	-0.431348936	-1.5442044601	0.538359965	-2.0413366156
##	[121,]	1.190413164	0.7998552143	0.904473214	-1.6395326808
##	[122,]	-1.383196247	1.2553581957	-0.128466857	-0.6829401353
##	[123,]	0.260182479	-1.5205581617	-0.621259089	0.4546570888
##	[124,]	0.730878984	-0.8537389213	0.912161851	-0.6830067677
##	[125,]	1.603232142	1.1798512287	-0.048068886	-1.0578361487
##	[126,]	1.755480981	-0.9611086435	0.501943538	0.4267774480
##	[127,]	-0.525795761	-1.2099465493	-1.216147102	-0.0952834237
##	[128,]	0.941125524	0.6412928530	-0.777443623	-1.1717572335
##	[129,]	2.452695764	0.3703747465	1.472249928	-1.1479041630
##	[130,]	-0.673724613	-1.5066003179	1.396110741	0.0001112662
##	[131,]	1.778307032	0.6291055219	-1.728075773	0.7029583491
##	[132,]	-1.155765686	0.5378325406	-0.868523091	0.5240648399
##	[133,]	-0.035232819	-0.5571431732	-0.202696319	-0.9370988994
##	[134,]	1.094886902	-2.3788845393	0.489095262	0.3808736635
##	[135,]	-0.057259525	-0.2778718302	0.580166250	-0.2221097197
##	[136,]	0.320444072	0.4394790098	-0.040596862	-0.0262577807
##	[137,]	0.192003099	1.0539711701	1.872647018	-0.4900919493
##	[138,]	0.528068015	-0.2824469185	-0.173331571	-1.6195691303
##	[139,]	0.473513215	-1.8645994670	1.270367688	-0.4251940023
##	[140,]	0.349885085	-0.8245692012	0.343673350	1.3709706640
##	[141,]	1.4481111005	-1.1808219809	-0.594218014	-0.3995013304
##	[142,]	-0.288671523	0.0026997239	0.397865058	-2.4434398999
##	[143,]	-0.246105267	0.3432637786	-1.080991196	0.5284088823
##	[144,]	-1.511882102	-0.5709072910	-0.905050264	0.8547517581
##	[145,]	-0.495024347	0.2663057248	2.261738454	-0.5175853386
##	[146,]	0.104615326	-1.5825268022	-0.499136124	-1.1108745387
##	[147,]	0.902919506	1.1402385821	-1.100332590	0.5236953613
##	[148,]	0.239724208	0.1412996868	0.019570376	-3.1052725543
##	[149,]	0.507267640	0.5956094686	0.300806272	-2.0655678560
##	[150,]	-0.875238957	0.0577505126	0.334230095	-2.6791101744
##	[151,]	0.091254051	0.9816095234	-0.719756102	-0.6955280393
##	[152,]	-0.020385215	-0.3839475177	-0.380244939	-0.3242604976
##	[153,]	0.605115391	0.2463217248	-0.779772307	-0.3239832486
##	[154,]	0.017637095	-0.3086784104	-0.962933886	-0.1809515676
##	[155,]	0.084949794	1.0749441236	-1.227754409	-1.9489677292


```
## [156,] 1.124190998 -0.5531964049 0.934683915 -0.2986102820
## [157,] 0.084291302 -1.0518190882 -1.732454183 -0.1377422951
## [158,] -0.218004750 -0.3139158975 -0.374230093 -0.9872457009
## [159,] 0.216773350 -0.1077628726 0.984391235 1.1136756906
## [160,] 1.266213403 0.9290952879 0.362040080 0.2304244623
## [161,] 0.688871679 2.0009826742 -0.796570118 -1.5669267495
## [162,] -0.948181264 -1.2953412178 1.735296249 1.2144403293
## [163,] -0.338509175 -0.3639344539 -1.649911466 -1.0647207683
## [164,] -0.689386659 -1.7373127693 -0.673333842 -2.0153505106
## [165,] -0.106734805 -1.8011530712 -0.935619530 0.7072420380
## [166,] 2.301107611 0.5456664303 -1.620094646 0.4540930331
## [167,] -0.111507116 -1.2064105109 0.102802032 -1.0290371313
## [168,] -1.669515372 -0.3400730524 -0.253774542 -1.2132111599
## [169,] 0.373616914 1.0995561089 -2.086947549 0.1321591656
## [170,] 1.003428014 -2.4434137998 -0.941362723 -0.4137772173
## [171,] 1.549248381 0.1152974677 -0.265206001 -0.9991881493
## [172,] 0.398993765 0.8456757281 -2.120392023 0.2430880690
## [173,] 0.511265411 0.7265009096 -0.701709283 -1.6518143421
## [174,] -1.518518688 0.8985142930 0.359855815 -0.3480088817
## [175,] 1.739601318 0.1271070793 -0.188079998 1.1093540497
## [176,] -0.563596715 -1.1037761358 0.582654209 0.2228654718
## [177,] -1.101827649 1.2342823346 -0.153226920 -0.9955859140
## [178,] -0.346406109 -1.1387273646 0.082859271 0.4723229243
## [179,] 0.250186998 -1.8738538621 0.599724103 -1.5491720408
## [180,] 0.701670212 -0.2050842524 0.489761034 -0.5124294265
## [181,] 0.495761627 0.7695287487 -1.814204461 -0.9440013150
## [182,] 0.216532289 -0.1769913856 -0.155700744 -1.0164705465
## [183,] -0.232082304 -0.2122827681 1.628712952 0.5824764102
## [184,] 1.011596165 -0.0175592356 0.715039385 0.2669271550
## [185,] 0.604909208 -2.8827496315 -1.007827770 -1.0616815185
## [186,] 0.521911448 -0.6526106280 0.982910799 -0.0427199194
## [187,] 0.173186116 -1.5279686721 -0.710228508 0.9771589323
## [188,] -1.224574281 -1.9640154117 -1.074310700 -1.4952692533
## [189,] 0.208135369 0.1534287762 1.162104516 -1.7707432240
## [190,] -0.081332782 -0.7414601091 -1.299859784 -1.0661915752
## [191,] -0.970253820 0.4438014968 1.460537611 -0.9589919711
## [192,] -0.059073440 -1.8590266363 -0.374986744 -0.0149178511
## [193,] -0.079856740 -0.5129637695 -0.959905195 1.5622203986
## [194,] -0.226675490 -1.4639726313 0.736576634 -0.4991745498
## [195,] 0.331626176 0.0043729971 -1.529573116 -0.9123057019
## [196,] -0.033081897 0.9517957276 -0.413076967 0.4540627947
## [197,] -0.049853835 0.4775824625 -0.249341214 0.7940008530
## [198,] -1.151062257 -0.6487624968 -0.883731172 1.3266280237
## [199,] -1.532826853 -0.4390694744 -0.554477080 -0.4344748675
## [200,] -0.909563172 0.2407524050 -0.200103390 0.3412390291
## [201,] -0.796302901 0.1583849048 -1.100718115 -1.4948168124
## [202,] 1.563286510 -0.0130074491 -1.463226850 1.2229513528
## [203,] -1.393835043 0.4414221979 0.891626172 0.9505823475
## [204,] -0.890800968 0.3949514873 1.722680028 0.7519862855
## [205,] -0.646182693 -1.0101474342 -0.554691779 -2.2164678915
```

##	[206,]	1.461384587	-1.9903961499	1.714386872	-0.8538820469
##	[207,]	1.837364924	0.5217068267	-0.130426463	-2.0364900283
##	[208,]	0.291212411	0.3637342065	-0.201734438	0.6955594007
##	[209,]	-0.248640557	-0.5663101971	0.313477165	1.5761527894
##	[210,]	0.772127347	1.3289705351	-0.521011206	-1.3333303077
##	[211,]	2.062880502	1.8360738091	1.407969981	0.8468393486
##	[212,]	-0.646249146	0.3081885965	-1.145409698	2.1669143609
##	[213,]	2.098810148	0.9898836819	0.184109869	-1.2524157292
##	[214,]	0.660735520	1.5849700859	1.550082271	0.3821819323
##	[215,]	0.610836675	0.2726747583	1.180328168	-0.3686926279
##	[216,]	-2.222641556	-0.5682877360	-0.416573884	1.1598497355
##	[217,]	-0.934546630	-1.2660499721	1.108752086	-0.9772017342
##	[218,]	1.236197830	-0.5018419257	-0.528277818	0.2264412553
##	[219,]	0.010281016	1.3952763534	1.674032169	0.0171712762
##	[220,]	-0.979425586	1.8274246368	-1.266837869	0.8201025816
##	[221,]	-0.759908005	0.0012722011	1.888404474	0.4341473076
##	[222,]	0.834737338	1.5606581201	0.168312020	-0.8764347648
##	[223,]	-0.858965725	-1.4707304193	-0.618653106	-0.4806258873
##	[224,]	0.818052471	0.3582326769	1.044662816	0.6024648284
##	[225,]	-1.095974862	-0.4977637366	-1.407499118	-2.0625591777
##	[226,]	0.607742312	1.4773927575	-0.212911946	-1.2614813822
##	[227,]	-1.209597333	0.3184572674	-0.248906690	2.2357639808
##	[228,]	1.242808368	-0.2026828860	0.618139970	-1.6667266671
##	[229,]	0.748917631	-0.4916497019	1.869777376	-0.4140424930
##	[230,]	-0.849278089	0.9579812437	0.289364382	-1.0400252974
##	[231,]	0.759760879	0.2333014914	-0.642957835	1.3051256815
##	[232,]	0.694746987	0.3447447710	-0.208303006	2.2142782303
##	[233,]	0.073442221	0.6447974339	-1.640507680	0.0155870640
##	[234,]	-0.645918118	-0.7993404915	1.297387887	1.1673394392
##	[235,]	-1.915917151	0.6500579168	-0.113154733	0.5476074060
##	[236,]	1.014458771	-1.1186696504	-0.983528452	0.2466589622
##	[237,]	1.357325243	0.2558932618	0.037428299	0.3553797785
##	[238,]	-0.076210150	0.6353010734	-0.911832117	0.9963457238
##	[239,]	-0.848834602	-0.6362570038	-0.990992269	0.5507951436
##	[240,]	0.699778464	-0.7980618748	0.080397416	0.1885923338
##	[241,]	-0.574297742	1.8611462449	-0.889073678	-0.0350210374
##	[242,]	0.116021205	0.9452005194	-0.373952920	0.5520484436
##	[243,]	0.966100543	-1.4255523997	-0.990827249	0.4577660483
##	[244,]	0.450218084	-1.6217122153	0.928245285	-1.7983310169
##	[245,]	-0.821404180	-1.8414655333	-0.181831638	1.3984594181
##	[246,]	1.120661393	-0.9264803469	-0.570376639	0.7267299408
##	[247,]	-1.252578878	1.4161970840	-0.867796255	-0.6595217447
##	[248,]	0.594000789	-0.5872618158	1.510378353	1.3590052379
##	[249,]	1.109701783	-0.5647930127	-0.704295935	0.0343080145
##	[250,]	-0.229691815	-0.1685686736	2.206789672	0.3579290454
##	[251,]	-0.548653946	-0.6247978973	-1.242441514	1.4077341475
##	[252,]	-0.680354734	-0.3868462182	1.733137740	0.3930188129
##	[253,]	0.563344024	-0.3421459516	-0.281307315	1.3586213615
##	[254,]	-1.563620353	0.7508643742	0.924221752	-0.3665639083
##	[255,]	-1.169488630	-0.2425960330	-0.509115813	1.4071903181

##	[256,]	1.672597012	-0.9130410893	1.395388903	-0.8530476026
##	[257,]	-1.424793214	-0.2059458012	-1.323731432	1.4400518652
##	[258,]	-0.439569357	1.9616005227	-0.237278276	-0.6748286660
##	[259,]	-0.088290457	-0.3739930011	-0.520839814	-2.0060919824
##	[260,]	1.197246870	-0.6969075104	0.134568061	-0.6037554532
##	[261,]	0.356789774	-0.6225718540	0.291811018	-0.5788236875
##	[262,]	1.237896977	0.8257840837	-0.735480809	1.3429304271
##	[263,]	2.099191899	-1.1562277046	-0.125184553	-0.8344004546
##	[264,]	0.192687082	-0.3268381933	-0.453057062	0.8470402230
##	[265,]	-0.600039851	0.6211250575	1.892326155	0.2912840100
##	[266,]	-1.880719062	-1.1320605694	-0.396604901	0.2723949881
##	[267,]	0.184305199	0.5237928298	0.091639199	0.5453493557
##	[268,]	1.302276480	-0.4167238300	0.444502811	-0.5803708190
##	[269,]	-1.704961921	0.2179813845	2.281998224	0.7052062595
##	[270,]	0.719058290	-1.1361748201	1.199257812	-1.5716430294
##	[271,]	0.193408560	-1.0356922436	-1.071015994	1.0515682971
##	[272,]	-0.973632429	0.8816174832	-0.277406961	1.4652118876
##	[273,]	0.719064433	-1.8301234040	1.971366435	-0.9271173007
##	[274,]	0.981953876	0.8796438142	-0.607905074	0.5070859010
##	[275,]	1.146055908	0.0803624430	-0.660247535	0.0250941998
##	[276,]	1.929900305	0.0769829244	-0.995702486	0.2629131338
##	[277,]	-0.487568849	-0.5996261594	-1.117220330	0.5558940250
##	[278,]	-0.469082885	0.8947460005	-1.766784917	-0.7972414731
##	[279,]	-0.037629074	1.0702223919	1.877000761	0.0907841657
##	[280,]	-1.139432366	-1.5161056808	-1.083708102	0.4340028497
##	[281,]	0.614610324	-0.7187418543	0.266205545	0.9734915026
##	[282,]	-0.515196870	-0.0330634920	1.897329268	-0.8502126554
##	[283,]	-1.300893452	-1.0320246488	-1.011948547	0.3809954075
##	[284,]	-0.726269386	1.7616112249	0.364799575	-0.7856253241
##	[285,]	-1.712530105	1.1243220759	-0.680187001	-0.2214761652
##	[286,]	0.168096215	-1.3927989281	1.242676648	0.2987561537
##	[287,]	-0.041600663	0.0171287966	-0.214485776	1.5859923185
##	[288,]	0.103402150	-0.4116315597	-0.034239706	0.6759067696
##	[289,]	-0.856640263	0.9705910086	0.139002329	-0.4466137217
##	[290,]	-0.041579040	1.2598380971	-0.833714828	0.1912209391
##	[291,]	1.467284318	-1.4209076839	1.549755270	0.0704854490
##	[292,]	0.224494543	-0.1147023747	-1.101395618	-0.2774844702
##	[293,]	0.953692119	-0.8726802001	-1.304366155	1.2967233195
##	[294,]	0.141065357	-0.4421076647	0.069126810	-1.6621475668
##	[295,]	0.889826180	-0.6797719847	-1.124056076	0.3511870161
##	[296,]	-0.191469021	-0.4573325453	0.038203532	0.9617080701
##	[297,]	-1.139929726	1.8559038330	-0.815778613	-0.8901599027
##	[298,]	-0.241382597	-1.0093210102	1.586489633	-1.5533312103
##	[299,]	0.550586894	-1.3642202569	-0.308702734	0.6752934608
##	[300,]	-0.452395677	-0.4169329307	-0.714061275	0.5985804590
##	[301,]	1.498861537	-1.1876223599	0.283907519	-1.6813818043
##	[302,]	0.036497410	-0.9460802050	0.397303226	-2.0416188030
##	[303,]	0.887145540	-0.0874448765	-1.056305487	0.8747506246
##	[304,]	-0.258079692	0.7248952381	0.087737276	0.8825771006
##	[305,]	0.269431402	-1.1699417421	-1.094576828	-0.0076345300

##	[306,]	1.441427766	0.1549281689	-0.739335007	0.1568233480
##	[307,]	-0.189394669	2.0321186733	-0.084904742	1.1245723953
##	[308,]	0.198739873	-0.3329314216	1.619914424	-2.8458192725
##	[309,]	-0.220413519	1.2515859956	0.618648020	1.0050532750
##	[310,]	-0.357367373	-0.5809215019	1.123335887	0.4866834661
##	[311,]	-2.292206086	0.2269267116	2.062109665	0.0904870221
##	[312,]	1.036646893	0.7662704719	-0.150306180	0.8129858106
##	[313,]	-2.484689925	-0.5920910741	-0.314099400	-1.0686435013
##	[314,]	-0.010259289	-0.3730871185	-0.435334341	0.5249375280
##	[315,]	1.452646785	2.1536917609	0.805631363	-0.4523316496
##	[316,]	-0.754267248	-0.0398649689	-1.362402461	0.7154631638
##	[317,]	-1.607136568	0.1102442467	1.739005831	1.7807052811
##	[318,]	-1.786792366	0.7062514278	0.501978083	-0.2650000788
##	[319,]	0.280781665	-0.2724310882	2.052359960	1.4789142248
##	[320,]	1.724487919	-0.4120296564	-1.225269146	0.5958622962
##	[321,]	-0.014807550	1.0714581322	-0.041004390	0.3426511428
##	[322,]	0.341356452	-0.5815071761	1.242707702	1.1241886702
##	[323,]	0.374925312	-0.0470285032	-1.101840898	0.8066341139
##	[324,]	-1.076161378	0.2091158104	2.305405776	-0.4132197459
##	[325,]	-0.424059185	-0.5277331169	0.354352562	0.4313965931
##	[326,]	-0.024787361	1.6098678875	2.150980619	0.6356186815
##	[327,]	-0.609743877	-0.4679424459	-1.060532948	0.2226261402
##	[328,]	0.023721571	0.1308358666	-1.034108540	0.3041205843
##	[329,]	0.097095666	1.4835374701	-2.054636960	-0.4630317111
##	[330,]	-1.528711341	0.3527497898	0.052410662	1.5354711266
##	[331,]	-0.626915157	-0.9113548660	-0.555882869	0.2957346549
##	[332,]	0.268107451	0.7181239668	2.019440728	-0.0142863242
##	[333,]	0.433461307	-0.6198575046	2.350758399	-0.9977424661
##	[334,]	0.710497128	0.2656653320	0.608784936	0.2087514491
##	[335,]	0.410990417	-0.2413398549	-1.256387315	0.3057853391
##	[336,]	-0.005932612	1.0012023808	0.641273580	-0.1386345976
##	[337,]	-1.570799475	-0.1737427194	1.579909416	-2.0860968217
##	[338,]	-0.730021578	1.7449103778	-0.183633738	-0.5157447668
##	[339,]	0.693596091	-0.2620459511	-0.507300767	1.0035420608
##	[340,]	0.317203055	-0.1747276291	-1.081916339	0.5121842697
##	[341,]	1.008209656	-1.6601903678	-0.862810029	-1.9302724435
##	[342,]	-0.995298390	1.0660110094	-0.239704051	1.4722325462
##	[343,]	-0.569614090	0.0286721776	-0.034156481	0.0936456698
##	[344,]	-0.175523202	-1.1649022716	1.262835228	0.9676853518
##	[345,]	-1.216717836	-0.7148309110	-1.352311657	0.8321650545
##	[346,]	-0.160768731	-0.2572097927	-0.984989336	0.6761628666
##	[347,]	-1.293421349	0.0158709706	-0.736640281	0.2806835684
##	[348,]	-1.611436035	0.7661386143	-1.028299979	-0.4724291742
##	[349,]	-0.252492103	-0.0814653888	2.209302791	0.2779261240
##	[350,]	-1.069312885	0.5059833270	-0.475451745	1.5919622610
##	[351,]	-2.493387985	0.3873055318	-0.484389470	-1.2714548436
##	[352,]	0.081317283	1.0453793828	2.443642751	0.9416022495
##	[353,]	-2.190991829	0.1586177893	2.262511490	-0.8865772154
##	[354,]	1.819975271	-0.7447176592	-1.001478941	0.0248909985
##	[355,]	2.144731173	0.2021388141	0.684654354	-0.0028835538

##	[356,]	-0.240610909	1.3572148835	-1.523888500	-0.2604960704
##	[357,]	-0.671164100	1.3752376492	-0.489321163	-1.7650357903
##	[358,]	-1.470085353	-0.2287649127	1.072102236	-0.3026980137
##	[359,]	-1.156700426	-0.6781252853	-0.249752152	-0.3033155003
##	[360,]	-0.576783114	-1.5069914360	-0.442713404	1.1831250118
##	[361,]	-0.968584529	0.7143461121	-0.721265379	0.5853490464
##	[362,]	1.411506184	-0.0724136796	0.427628854	0.2025836016
##	[363,]	0.146683684	-0.2268276864	-0.436698583	0.0027667592
##	[364,]	0.420073912	-0.9256463883	-0.567916276	-0.4362571791
##	[365,]	-1.101993970	0.5163603598	-1.397410549	0.2521273246
##	[366,]	1.457541907	0.1709277550	-0.035141694	-0.3339438568
##	[367,]	-1.719827128	0.8411469609	-0.939186350	-1.0986562533
##	[368,]	-0.953703068	0.9935309271	-0.762369089	0.0439217649
##	[369,]	-0.358848426	0.6066760683	0.361153530	1.8256366164
##	[370,]	-0.687576306	1.3894812314	0.620589852	-0.2426008302
##	[371,]	-0.017788216	-0.3977581327	1.671074211	1.1351733359
##	[372,]	1.005605375	-0.4252386890	2.336893715	-0.7392981109
##	[373,]	-0.549685283	0.2196828621	-1.390432284	-1.9943856099
##	[374,]	-1.153727279	0.5522210478	-1.080695643	0.0261812346
##	[375,]	-1.799482568	-0.5062745968	2.424829405	1.4187461110
##	[376,]	-1.554832653	-0.8448381867	1.396091600	-0.5581208897
##	[377,]	-2.141469684	-1.4547614004	1.409641518	1.0201090222
##	[378,]	1.923642571	1.4198895286	1.213519532	-1.0686245504
##	[379,]	-0.390425335	-0.7714165920	-0.023910686	0.8211311018
##	[380,]	1.061018104	1.3856671693	-0.197127768	-0.6145689464
##	[381,]	-0.965318705	-0.1574082243	1.689468014	1.2091739720
##	[382,]	0.495605331	-1.0874762961	-1.304077152	0.2111765187
##	[383,]	-1.237454448	0.6357201908	0.793927031	2.3284885685
##	[384,]	-0.872948334	0.5370659727	-0.904361065	-1.6648704612
##	[385,]	0.434210391	-1.5250275112	0.265299519	-0.3326103586
##	[386,]	-0.258450269	1.2387334374	-0.018483103	-0.3950653100
##	[387,]	0.406546167	0.2305718195	0.321254988	-1.2349817376
##	[388,]	0.459167800	0.7009995145	0.721801048	1.4750016347
##	[389,]	1.646347989	-0.2229473849	-0.063506272	-0.7778368770
##	[390,]	0.434825478	-0.6997554585	0.695005193	0.8903249210
##	[391,]	0.738362762	0.2206917741	-0.290770195	-0.6023035528
##	[392,]	-0.178790949	-1.6782325817	-0.281265016	0.4263618893
##	[393,]	-0.809351427	-0.8997533040	-0.296700035	0.3128044780
##	[394,]	-1.532243474	-0.2546792313	-0.823716168	-1.0008359780
##	[395,]	-0.782271392	0.4084812121	0.445979834	-0.0972484362
##	[396,]	-1.315830881	1.4060337062	-0.531076787	-0.8488336483
##	[397,]	-0.409957706	-1.2220998735	-0.309912792	-1.4217829005
##	[398,]	0.065586385	-0.3579533043	-0.923804660	0.1949964612
##	[399,]	1.703175031	1.8497462786	-0.585390364	0.5823320349
##	[400,]	1.912622945	-0.2735831171	0.764498031	-0.7483507937
##	[401,]	0.144529126	-0.2433673022	1.199630627	-2.8874736843
##	[402,]	-0.559345826	-2.1227366391	-0.970936246	-0.8002930165
##	[403,]	-1.665921641	0.9492005248	-0.599887699	-0.0242568263
##	[404,]	-1.031351369	-0.9559735683	-0.278143568	-0.6213649904
##	[405,]	-0.051332354	-0.2555978524	0.865107594	0.1350921914

##	[406,]	1.838112912	-0.2934489550	-0.801657173	-0.3198479585
##	[407,]	0.117007479	-0.7031760187	-0.836413257	-0.8186350893
##	[408,]	1.679556088	0.0044207687	-0.392205773	0.7620115561
##	[409,]	0.687582991	-1.8902800698	-0.462572376	-0.7036579605
##	[410,]	-0.148530404	0.6375248117	-0.234606152	1.2137773216
##	[411,]	-2.246809839	1.8444862844	0.032449978	-0.3395969444
##	[412,]	1.265400493	0.2237104756	-1.380418830	0.9362227158
##	[413,]	-0.176712279	-2.2385589807	-0.886910118	0.0674108684
##	[414,]	-1.145576720	0.5601545559	0.147382889	-0.0472687368
##	[415,]	1.456400267	-0.7798418770	-1.488234058	-1.1133937083
##	[416,]	-0.402074828	-1.0297071303	1.070795103	1.7924205037
##	[417,]	-0.109289899	-0.1343023327	0.154643977	-0.0782233735
##	[418,]	-0.075255983	0.8539864315	0.183690154	-1.5245642129
##	[419,]	0.221728931	-1.5958268705	-0.676967100	0.4791230320
##	[420,]	0.492220595	-1.4878703656	0.786153243	-1.5491096976
##	[421,]	0.777415054	-0.6800595913	-1.575752306	-0.3255516464
##	[422,]	1.465088893	0.8117690103	0.503586132	0.4398154740
##	[423,]	-0.264401683	1.3305037783	-0.003386672	2.6971451410
##	[424,]	0.440323733	-0.2125177136	1.565344352	0.3775222841
##	[425,]	-1.524518748	-0.2622428239	-0.750436310	0.2627197255
##	[426,]	0.783900774	0.1948531926	0.285573466	2.2390740423
##	[427,]	-1.249358435	-2.6065539671	-0.693898880	-0.8245806799
##	[428,]	1.190054668	-2.3218220415	-0.928411155	-1.1655978103
##	[429,]	0.780895679	-0.5537997056	-0.541735538	1.5837798163
##	[430,]	0.410947616	-0.4625967797	-0.674803040	0.8997689995
##	[431,]	0.691447599	-0.6315061049	0.749418008	0.3836139457
##	[432,]	-0.823402384	1.4356400930	0.698194824	-1.3074505199
##	[433,]	0.743277884	-0.0521832632	-0.489397978	-1.5930027932
##	[434,]	-0.257563358	0.1386829964	-1.835241397	-1.4115731523
##	[435,]	-0.501914820	0.8921733398	2.153392741	0.6463960915
##	[436,]	-1.619542536	-1.3214497199	1.713579656	0.8827842532
##	[437,]	-1.299072337	-0.2212157887	1.991456908	-0.3885385356
##	[438,]	-0.578604715	-0.5699065307	-1.268969433	-0.6392710664
##	[439,]	0.046357335	-1.0996657260	-0.513959404	-0.5222556017
##	[440,]	-0.866070169	0.6749506928	-1.562617318	0.4481050384
##	[441,]	-0.100284657	-0.0009862945	-0.746577459	1.1897533641
##	[442,]	-0.653439342	-1.1061726209	2.130626686	0.2425180635
##	[443,]	0.116487377	-0.0955441411	0.496046845	-0.0171086466
##	[444,]	1.303958242	-0.6393689136	-1.397705916	-0.7732773535
##	[445,]	0.550986642	0.0498628864	0.847383415	-0.9566625427
##	[446,]	-0.189863901	0.2549911376	-1.037015935	2.5611559856
##	[447,]	-1.171591041	0.1543992964	-1.513561195	-0.5261126579
##	[448,]	2.977741903	-1.0458175915	0.496957799	-2.2921820118
##	[449,]	0.212592985	-0.5500612853	-1.450704263	0.7400988719
##	[450,]	-0.515199353	-1.2393981139	1.968232514	-0.0315513744
##	[451,]	-1.785567331	-0.0214555754	1.646441937	0.9127330041
##	[452,]	-0.929547116	-0.2668970626	1.312610795	-0.1133194421
##	[453,]	0.914024757	1.0897556804	0.252867164	1.9926031847
##	[454,]	-0.492044666	-1.4567858818	1.697901882	0.0622942371
##	[455,]	0.729175330	0.3620699724	-1.195130591	1.6218074391

##	[456,]	0.060248542	-0.6888888050	0.502207771	1.2610897902
##	[457,]	-0.333697075	2.5035886097	0.497095582	-1.5804762402
##	[458,]	-0.689864338	1.5830139427	-0.303600011	-1.7854918211
##	[459,]	2.154152180	-0.0932480275	0.545356300	0.3399770157
##	[460,]	0.555239769	-1.3734833352	0.859820914	0.0299960858
##	[461,]	-0.305555156	1.2843596683	-1.632358087	-0.3824655113
##	[462,]	0.883901154	0.6741980058	-0.299087508	0.1707604009
##	[463,]	-0.380692927	-0.5186424420	0.689677569	-1.4084888108
##	[464,]	-0.138090228	-1.5989628388	0.464056235	0.2831027510
##	[465,]	-0.400702478	-0.3127926919	-1.083905688	-0.1679684498
##	[466,]	0.532558481	-0.2517279507	-0.961165937	-0.6939765080
##	[467,]	-1.481217881	1.0731744627	-1.291692295	1.0766709440
##	[468,]	-1.112921709	-1.2754470935	-1.776297080	-0.5823253311
##	[469,]	-0.321214693	0.5182791195	-1.035988101	-0.3859481526
##	[470,]	-0.522750109	0.9845625868	-0.607548987	-0.5527194693
##	[471,]	-0.125994278	-0.2201909424	-0.656186989	-0.0663083446
##	[472,]	-1.453119732	1.3433420927	0.821270623	-1.1180149947
##	[473,]	-1.756167650	-1.0209933568	0.527472026	-2.3861653405
##	[474,]	0.112317362	-1.6771937176	1.399487237	-1.8051704780
##	[475,]	0.039618636	1.4427132110	2.220626141	-1.3942203449
##	[476,]	0.693459244	-0.8407878853	-0.143370698	-0.0966195363
##	[477,]	-0.199411942	-1.7058876937	1.501546559	0.0430247973
##	[478,]	-0.529746532	-1.1399294427	0.736123128	-1.4527417447
##	[479,]	1.666444896	-0.6908690702	-0.958083149	0.2725033043
##	[480,]	-0.301177968	-0.6710032425	1.410009125	-0.0028827345
##	[481,]	0.371352228	0.4149822239	1.691925825	0.9978143640
##	[482,]	1.630650886	-0.9783618580	0.145266375	-2.2397923861
##	[483,]	-0.858576115	-0.0378536123	-0.442990937	-1.3281544747
##	[484,]	-0.853167554	0.0417194673	1.804411576	-0.3713441247
##	[485,]	-0.334746816	0.0469841827	-1.356637699	0.3424694908
##	[486,]	-1.094076179	-0.7790140276	-0.697319309	-0.5882640290
##	[487,]	1.509429484	-0.4195396663	-0.938849484	0.4583233109
##	[488,]	-0.498172750	1.8653860393	1.373359817	1.0846210344
##	[489,]	1.245653034	1.1584267831	-0.492678348	-1.3716239034
##	[490,]	0.873098138	0.3201097552	-0.773270154	1.0478209492
##	[491,]	-0.813096524	-0.5507032250	-1.168513032	1.3837512847
##	[492,]	-0.371196345	-0.9427554829	0.970669235	0.1187957769
##	[493,]	1.907397882	-1.1673107566	0.997703020	0.1039987419
##	[494,]	-1.928974512	0.9781320184	-0.405417734	0.0162684055
##	[495,]	0.236402137	0.0537031687	0.037590726	0.0739278272
##	[496,]	-0.109866952	-0.3936722964	0.588998546	1.5378468590
##	[497,]	-0.245332389	-0.6788530430	0.210028685	-0.8500015942
##	[498,]	1.091489913	-1.1482926165	-0.932931578	-0.2878724277
##	[499,]	0.718110694	-1.0299001239	-0.252710303	0.3872713641
##	[500,]	-0.954478624	0.1254264422	-0.594418957	-1.6908601868
##	[501,]	0.751804590	-0.2011189401	1.841675785	-0.2872216275
##	[502,]	0.318181422	0.0147206052	-0.627866630	0.0023511272
##	[503,]	-1.170309849	1.1238303966	-1.543586941	-0.7466042042
##	[504,]	0.185465671	0.1900644115	1.354338786	-2.2497671955
##	[505,]	-0.374191095	1.5489164857	1.313178797	1.7125506665

##	[506,]	-1.431249303	0.5869704233	0.260476081	-0.8142524730
##	[507,]	-1.804220142	1.1307510450	-0.205675527	-0.4832172797
##	[508,]	-0.165385231	-0.3596492240	1.876975104	-0.1622640800
##	[509,]	0.668211592	-0.1302308088	-1.897232455	-0.2618778882
##	[510,]	-0.176218527	0.7573445388	-0.424431516	1.4801987775
##	[511,]	0.143359255	1.7188327486	0.474868296	0.1119551046
##	[512,]	-0.325982095	1.4746326003	0.872433836	-0.8923305008
##	[513,]	1.855853482	-0.3699133916	-1.360486023	0.4376786211
##	[514,]	-1.097687691	1.5560879757	-0.219942230	-0.2587091462
##	[515,]	-0.541832037	-1.3164217456	-1.021588260	-0.3859886330
##	[516,]	0.088189320	0.1085949165	-0.886877317	0.3391057005
##	[517,]	-0.342246885	1.3589796022	0.302322578	1.7160381134
##	[518,]	1.725070514	1.1328924740	1.007043964	0.8678548366
##	[519,]	-0.389822991	-1.3970024591	1.859232326	0.8342045656
##	[520,]	-0.738666312	0.2514795558	-0.238744429	0.0187938889
##	[521,]	0.216872282	0.4438417797	0.029938543	1.0738787521
##	[522,]	-0.167262776	-0.9741715546	1.080790053	0.9521940001
##	[523,]	0.163961367	0.0497344064	-0.790806787	1.0349620964
##	[524,]	-1.005580860	1.1321033684	-0.243928157	-0.9040897248
##	[525,]	-0.534385258	-0.5466616697	1.731639590	0.9624933896
##	[526,]	0.673610537	0.4415062642	0.704571404	0.3869210269
##	[527,]	-0.375653535	1.8801330389	2.165729973	-1.1200564481
##	[528,]	1.002778370	1.0976025208	0.061647693	-0.7876757480
##	[529,]	-1.219814852	1.8299545509	-0.240783599	-1.9402687967
##	[530,]	-0.731173979	-0.4096026311	-1.468825617	-0.4721803904
##	[531,]	0.920356020	-0.1390236113	0.358619953	-1.3833133912
##	[532,]	0.774281043	1.6427443686	-0.971014791	-1.3966334948
##	[533,]	0.901545619	-0.3062279239	-1.252452543	1.4458415517
##	[534,]	0.263911248	0.8916072407	-0.228709316	-0.2413184842
##	[535,]	-0.572417653	-1.5480302543	-0.429408365	-0.0879293146
##	[536,]	0.670536107	1.3921814824	0.151455090	0.9450070266
##	[537,]	-0.576709936	0.7887560614	-1.340883348	2.0294316468
##	[538,]	1.022426179	1.7369885067	-0.472252144	-0.8011940039
##	[539,]	-1.160072697	-0.5575700804	1.410997974	0.3915639243
##	[540,]	1.233899909	1.1024598704	0.544131136	-1.0959411306
##	[541,]	0.475298724	1.1374095331	2.235427146	-0.4224024643
##	[542,]	-1.545807900	-0.9904426824	1.166320717	0.5197418865
##	[543,]	0.910970474	1.3004765214	-0.891633192	0.6512889644
##	[544,]	-0.593378120	0.3995042044	-0.716823349	-1.0268399317
##	[545,]	-1.197173978	-1.0483707947	2.194470785	0.2784029092
##	[546,]	-1.264659912	0.2681162829	-0.401632455	0.6007412161
##	[547,]	1.116940690	2.0603972581	0.396325904	-0.5577010352
##	[548,]	1.790971572	-0.5399079189	-0.737085779	-0.4498770405
##	[549,]	-1.218285349	-1.6771704098	0.127884599	0.0466921688
##	[550,]	-0.688351187	-1.4923386148	-0.736358418	-0.0992654576
##	[551,]	1.117634040	-0.6053019599	-0.228681854	0.3644006841
##	[552,]	-0.378526599	-1.1579428048	0.099389035	0.0293292929
##	[553,]	2.518681691	0.1810114034	-0.174230601	1.7140087610
##	[554,]	0.241138088	0.3353675927	-0.376506834	0.9650705823
##	[555,]	0.453049835	1.4304201656	0.344032544	-0.4131294315

##	[556,]	-0.674707640	-1.0813795245	-1.022117005	1.6795677800
##	[557,]	-1.425406531	-0.9736347753	-1.065128358	1.1935147415
##	[558,]	0.594555126	-0.2832361274	-0.818710324	0.8150138810
##	[559,]	0.770573158	-1.3285008236	-0.119127675	0.1613331477
##	[560,]	-1.542156870	-0.9163401296	-1.030434071	0.6676849198
##	[561,]	1.482641608	1.1135083213	1.565794693	0.6856793259
##	[562,]	0.912177636	0.2557225781	-0.117034047	-0.6386221389
##	[563,]	-1.108697452	1.5582127963	-0.155343809	0.8840211981
##	[564,]	-1.049737540	1.2118694156	0.239602619	1.4522111716
##	[565,]	-1.228084905	0.9887983583	-1.386477300	-0.4011869165
##	[566,]	-0.134545340	0.8207309128	0.566095785	2.4942868332
##	[567,]	0.731207991	-1.4660028257	-0.560327475	-0.3907162911
##	[568,]	-1.786813526	-0.2897187529	0.640251946	-0.2455085694
##	[569,]	-1.077086455	-0.0084053941	-0.696997898	1.7573325421
##	[570,]	0.642097073	0.7617953528	0.340485321	0.4571533854
##	[571,]	-1.031712715	0.9115503288	-0.625320642	1.0873305468
##	[572,]	0.027908659	1.3740196961	0.465020524	-0.0267851115
##	[573,]	-0.770914685	0.5268659643	2.125921746	1.2667906994
##	[574,]	-1.500443202	0.7131734285	0.006618884	0.7253468195
##	[575,]	-1.406448482	0.5890166114	1.626745145	1.3560130329
##	[576,]	1.074519123	0.0329400289	1.919015304	0.1310715172
##	[577,]	-0.672509022	2.0056436000	0.183588534	0.1946044255
##	[578,]	-0.245655767	0.2007803283	-0.012734003	0.4019444344
##	[579,]	-0.224743798	-0.7656293893	1.652936592	0.8419183061
##	[580,]	-1.211626982	1.1526991628	-0.212635763	-1.0220828888
##	[581,]	-1.034028736	-0.0990006239	-1.110350949	-1.2148555952
##	[582,]	-0.883525140	0.3282643581	-0.339791923	1.2420142322
##	[583,]	0.485480208	-0.3389679913	-0.797316238	-0.8771758883
##	[584,]	1.078162984	0.9153152651	-1.482783023	-1.3058220677
##	[585,]	-1.651502530	-1.2837831741	-0.278661333	-0.9945892276
##	[586,]	-1.629722884	-0.8458921907	-0.949590367	0.0270923155
##	[587,]	1.266832374	0.2847418491	-0.873867704	-0.1737441260
##	[588,]	-1.357221966	-0.2000918684	0.501371911	0.7218158321
##	[589,]	0.102803891	-0.3280627219	-0.169580862	1.9611320593
##	[590,]	1.431120968	0.5892229190	-0.380675730	0.9693929168
##	[591,]	0.626981745	0.9873966201	0.964300508	-1.1225160470
##	[592,]	1.792656029	0.3463371373	-0.660035358	0.5052875016
##	[593,]	0.727714303	0.7271995882	-0.438754800	1.4800606477
##	[594,]	-0.717069639	-1.4908631909	2.381634015	0.0512202714
##	[595,]	0.742942830	-0.8912105502	-0.474077836	-0.8180723394
##	[596,]	-0.208875134	-1.7945942612	0.665285345	-0.8841814314
##	[597,]	-1.353571792	0.2833166396	-0.120802387	-1.0331457440
##	[598,]	-1.299348082	0.9903110197	0.065230807	0.0822201274
##	[599,]	-1.331123711	0.4039216296	0.185445082	0.0506881709
##	[600,]	-0.414732288	1.1317599442	-0.581679460	0.0994948901
##	[601,]	-0.313089244	-0.6702812623	0.041405016	1.4538015184
##	[602,]	0.696285793	-1.8095672483	0.629787861	0.4048232590
##	[603,]	-0.664960798	0.5849853451	-0.333679218	-0.0922546040
##	[604,]	-0.530583380	0.6246936691	-0.864162076	1.2951701690
##	[605,]	0.393033722	0.2427576747	-0.143276193	1.5248592332

##	[606,]	-0.773483140	0.4931802457	0.919365940	-0.3231844134
##	[607,]	-1.550219870	-0.5721616995	-0.008784268	-1.2361901112
##	[608,]	-0.425929638	-1.2560451875	1.410679344	-0.5049604728
##	[609,]	0.537334661	0.5208371991	0.546749614	-0.8423897492
##	[610,]	0.498023174	0.8974957136	-0.755496892	-1.0740851448
##	[611,]	-1.262739352	-0.1678791193	1.028433678	-0.9615857844
##	[612,]	-0.506180423	0.5279296458	-0.363323955	1.2264462356
##	[613,]	-0.466164267	0.0740621626	-0.745482803	-1.4161796042
##	[614,]	-0.062652463	-0.5850359124	-0.716059118	0.7107113083
##	[615,]	0.352763658	-0.4661987357	0.322589126	1.4242977078
##	[616,]	0.630817178	-1.2934951186	0.299851670	-1.5349327764
##	[617,]	-1.776494997	1.4231792525	1.866290876	-1.3771903714
##	[618,]	1.862778139	0.3168825534	-2.044272590	0.2024695139
##	[619,]	0.783085708	1.0408955491	-1.229743284	0.3007597540
##	[620,]	-0.975228093	1.0935991652	-0.212727297	-2.3929896532
##	[621,]	0.395720199	-0.5237252721	-1.316548086	-0.8197941803
##	[622,]	-1.770814879	-2.8695094636	-0.779740957	-1.2461052930
##	[623,]	0.364824670	0.4074003624	-1.431914603	1.0084302678
##	[624,]	-1.818826667	-0.4104093949	-0.180294406	-0.0207928292
##	[625,]	0.101111725	-0.9211709468	0.046925033	1.7491603015
##	[626,]	-0.144427102	0.7214556049	-0.578213806	0.8669059482
##	[627,]	-0.630544162	0.4278626091	0.350839260	0.8557093702
##	[628,]	-0.512994850	-0.1855098459	0.358881316	0.1943638402
##	[629,]	-1.424391456	1.0821048810	0.409834172	-1.3214296216
##	[630,]	0.491007264	-0.4739891640	-1.154115956	1.9120547616
##	[631,]	-0.371155336	1.0840335289	-0.611155100	0.8263665790
##	[632,]	2.132957294	-0.0577048796	0.609805408	-0.0743387945
##	[633,]	-1.213695030	0.3574885950	0.769194405	-0.7561102837
##	[634,]	-1.499211623	0.3587654980	-0.410043538	-0.1139499815
##	[635,]	0.689637532	-0.8872405733	0.447918736	1.0314217497
##	[636,]	0.262805205	-1.1564586261	0.995993417	-1.1521061040
##	[637,]	-0.289674258	1.1233106910	0.301865815	1.2773637891
##	[638,]	0.014863848	1.3083382488	1.340446839	-0.4698518961
##	[639,]	-0.413960667	-0.6589949790	0.973034322	0.5817574690
##	[640,]	-0.995840420	-0.4460006835	-0.406714463	-2.0778438461
##	[641,]	0.195568870	0.9716455001	0.367638376	1.3484679803
##	[642,]	-2.021053663	-0.5732228759	-0.315411927	-0.8175973615
##	[643,]	-0.535763589	-0.0376944225	2.985679913	-0.1649569448
##	[644,]	1.418839368	0.0501147909	-0.144247484	0.5756967746
##	[645,]	1.044009948	-0.2551107556	0.937569376	0.5375487123
##	[646,]	0.319561639	1.8313513311	0.843646913	0.5357798806
##	[647,]	-1.807590277	-0.4317804771	-1.205050000	-0.4750512852
##	[648,]	-0.984707161	-0.6146120423	0.500836132	1.5100316974
##	[649,]	-0.225577113	-0.7702434451	1.437121595	0.4091569637
##	[650,]	0.529472865	-0.1513145616	0.165085750	1.3932981311
##	[651,]	-1.566557203	0.6551432443	0.357127620	-0.2336101931
##	[652,]	0.313013189	0.8661347027	-2.166785713	-0.1677579812
##	[653,]	-1.030773141	-0.1103372529	-1.231374046	-2.5081728050
##	[654,]	0.441404547	-0.4836819133	-0.521476107	0.3560941837
##	[655,]	-0.649211957	0.9084150058	-0.032271911	-0.2298143071

##	[656,]	-0.272258786	-1.4539435715	0.012133243	-0.7092718913
##	[657,]	2.258850160	1.9289263917	1.850805345	0.1417493027
##	[658,]	-0.440504703	-0.7296155870	-0.424685444	0.6080484539
##	[659,]	-0.622883984	2.1704094452	-0.640358441	-0.3780801536
##	[660,]	0.380726980	-0.3655681059	-0.821834838	-0.6399953334
##	[661,]	0.875900381	-1.2255016009	-0.698594729	0.3378113524
##	[662,]	-0.089905076	-0.8814760216	-0.319780756	0.3828870437
##	[663,]	-0.495938464	-0.4332404493	-0.112989169	-0.0189170557
##	[664,]	0.459686749	-0.5798233407	0.529615947	-0.8145547368
##	[665,]	0.010432227	-0.0441890784	0.954099364	1.0470133001
##	[666,]	0.468494911	0.2463725471	-0.519797274	0.4781429245
##	[667,]	0.850989983	-0.8284467193	-0.761494125	-0.2247468462
##	[668,]	0.219228795	0.4117334252	-0.093052037	-0.5350559079
##	[669,]	1.263879172	-0.8308205224	1.540725572	-2.7286585841
##	[670,]	-0.161051242	0.1689966457	0.256917163	0.1555881014
##	[671,]	0.057525850	-0.2627273308	-0.313218376	-0.0139377019
##	[672,]	0.535173522	0.6784420243	0.618817703	0.8477960052
##	[673,]	-0.287124208	-0.6842557119	-0.201798463	0.9430813318
##	[674,]	-0.165749637	-1.3612831928	-0.289472435	0.5150834339
##	[675,]	-0.552168776	1.4380312042	-0.803629884	-0.7336511996
##	[676,]	0.178216809	-0.9016640983	0.026705815	0.9563217002
##	[677,]	-0.702996329	-0.1464642059	-0.876718202	1.4158739998
##	[678,]	-0.180461945	0.4611459973	-0.513908413	0.8450610564
##	[679,]	0.145705799	0.6023071755	0.761752443	-0.1863643555
##	[680,]	1.307750991	-0.6881749367	0.021558735	0.2048681627
##	[681,]	-0.066084549	1.0644073189	1.610123019	0.8379656150
##	[682,]	1.010615473	0.8218903065	1.587661298	-0.1850435147
##	[683,]	-0.379461432	0.2184145116	-0.291520616	-0.8288161309
##	[684,]	0.184341332	-0.2416120417	1.567634379	0.7726530539
##	[685,]	-0.549088743	0.2213092820	0.635700382	1.3239055677
##	[686,]	0.944281227	-0.1096475454	0.418644081	0.7058917446
##	[687,]	0.370166258	-0.2385169078	0.436551516	-0.6750959975
##	[688,]	0.288320351	1.7013426801	-0.730586053	0.4058106734
##	[689,]	0.012925808	-1.3693228272	0.527786763	-0.4271902616
##	[690,]	0.220522698	0.4194959315	-0.476115723	0.5005153777
##	[691,]	0.875634839	0.7909618655	-0.191748374	-0.4243372582
##	[692,]	-0.893065673	-0.3565887516	-0.736217821	0.9234798167
##	[693,]	2.045684529	0.5505866772	-0.321987700	-0.9417914511
##	[694,]	-0.799027362	0.4806843635	-1.032400389	1.2444449224
##	[695,]	1.209150926	1.8847654718	-0.810924825	-1.4063244893
##	[696,]	0.362732368	-0.5420146665	-0.441695252	1.0679205845
##	[697,]	0.512571248	-0.9728359726	-0.565128198	-0.0141131386
##	[698,]	0.388825670	-0.9292309546	-1.676239485	-0.7147517309
##	[699,]	0.032492857	-0.0973442099	0.605252191	1.9222892906
##	[700,]	-0.532298202	-0.3640189780	0.141908854	1.6010294206
##	[701,]	-1.383257496	-1.3809791279	-0.564203720	-0.1822005438
##	[702,]	-0.104525261	0.0125921652	1.468102107	-0.8848737427
##	[703,]	1.305242385	1.1612452395	-0.235511025	-2.6877525741
##	[704,]	-0.766546020	1.2344426746	0.450183857	0.6807848028
##	[705,]	-0.337805885	0.1721557874	0.114921748	1.5816314282

##	[706,]	1.534872999	1.8191258256	0.989948520	0.6478309461
##	[707,]	-0.291118846	0.8094528741	-1.267298638	0.5662832921
##	[708,]	0.235857880	-0.7187235212	1.542943377	-0.5910155429
##	[709,]	-0.889894088	0.7282312395	-0.892192949	-0.7421988008
##	[710,]	-0.530033306	-0.3291238926	-0.756909158	1.3946482100
##	[711,]	-0.307028916	-0.5002139211	0.330534462	-1.1792479497
##	[712,]	-1.284159678	-1.9595274717	-0.397585621	0.1903388258
##	[713,]	0.340389644	-0.6406076382	0.093235947	0.2796130450
##	[714,]	1.817584187	-1.5771940443	-0.404478630	0.3641841253
##	[715,]	0.635866004	0.5427037333	0.930028487	1.4407602576
##	[716,]	-1.263761414	0.5449374861	0.682833482	-0.8919400347
##	[717,]	1.753183637	1.1201207355	0.620027055	-1.4205861635
##	[718,]	0.054458428	-1.5846551006	0.608700035	0.5481734204
##	[719,]	0.106446871	0.1485055413	1.711864434	0.8366333296
##	[720,]	-1.167843743	-0.4395103683	-0.771638155	-1.3812398074
##	[721,]	1.586830037	-0.0370510581	1.337262805	-0.1218004522
##	[722,]	0.921995940	-0.1321810487	1.645818558	-0.5630076710
##	[723,]	1.279443680	-1.3952782122	-1.005041880	-0.6127255675
##	[724,]	1.074224697	-0.9676219276	-1.362221832	-0.1527996324
##	[725,]	-1.208862181	-1.9330434047	-0.521081255	-0.3439655837
##	[726,]	0.792630153	1.1071182602	-1.694405977	-0.0378808031
##	[727,]	-1.267095535	0.0063978808	-0.576853740	-0.0785577535
##	[728,]	-1.771929280	0.2663385166	-0.460494301	-1.5111789960
##	[729,]	-0.165741635	1.4183661831	-0.680908652	1.4399407014
##	[730,]	-0.421675829	1.5684056800	1.902705483	-0.5220374438
##	[731,]	1.914112646	-0.9155508013	0.606731452	-0.4792886109
##	[732,]	0.481514300	0.3888195145	-1.421167572	0.0881071805
##	[733,]	0.991153520	0.1498238668	-0.945864942	0.0829704987
##	[734,]	2.259107744	0.9180530703	0.057381493	0.2378150412
##	[735,]	0.275887443	-1.3800917359	0.004960807	-1.3906045756
##	[736,]	0.604162506	-2.7069613166	-0.115238167	-1.6654653698
##	[737,]	1.329237177	0.1013962988	0.057887359	0.0157159603
##	[738,]	0.987530205	-0.9623988815	0.353114309	1.5632423658
##	[739,]	-1.038395020	2.2087311378	-0.399090865	-0.3311430087
##	[740,]	0.873370639	2.9617150566	0.070091189	-1.0029404551
##	[741,]	1.065440503	2.0713453901	-0.479946515	0.8731139339
##	[742,]	1.168158443	-1.1915475874	1.244556753	-1.1356309845
##	[743,]	2.252499723	1.0317129125	-0.200186144	-0.7143766237
##	[744,]	-1.113587233	0.5478166220	-0.390033953	-1.2537626593
##	[745,]	0.002399713	-0.1261690884	2.280591729	-0.7847499134
##	[746,]	-0.452190875	1.2714230337	-0.134465874	-1.6955452688
##	[747,]	-1.061111163	-0.1047009074	-0.435328484	0.4839284332
##	[748,]	1.830110522	-1.2523210696	1.138788478	-0.2867249527
##	[749,]	0.461387556	0.0224913135	0.997167280	0.2954002717
##	[750,]	0.121803339	-0.6789474643	-0.005879442	0.1319161473
##	[751,]	0.783280584	0.7189937822	1.216191945	0.1505514736
##	[752,]	0.810579642	-1.6774333719	-0.827598694	0.9509899893
##	[753,]	-0.011196496	-0.4019646177	0.699444356	1.2654196690
##	[754,]	1.054141754	-1.6980037106	-0.504763342	0.1526091227
##	[755,]	0.584855814	1.0631874545	-0.177386776	-0.6629002762

##	[756,]	0.390945410	0.6574267146	1.326153834	0.0301612621
##	[757,]	0.360920202	0.7237820815	0.293913538	0.0057876178
##	[758,]	0.123589471	-0.1142755719	2.122805170	0.4508376808
##	[759,]	-1.641679122	1.4006945765	0.719998654	-0.6190294121
##	[760,]	1.596198129	0.2815657452	2.755480463	0.6674362818
##	[761,]	1.603167756	0.0665148743	-1.041876730	0.1846369048
##	[762,]	-1.789444130	1.4764884984	-0.665320301	-1.0895653263
##	[763,]	0.606136523	1.9842202305	-0.307880440	-0.1011200565
##	[764,]	0.904412784	-1.1148565053	0.163729780	-0.0277480652
##	[765,]	0.044362207	-1.7401338013	1.766412987	0.0055671450
##	[766,]	-0.761292245	1.6289165582	0.846103995	-1.0210066108
##	[767,]	0.483297932	0.6552052441	1.912981021	0.3628037690
##	[768,]	1.053528536	-0.9384893249	1.481980239	0.4667781750
##	[769,]	-0.910397536	0.1953181630	-1.082250562	-0.7090995883
##	[770,]	1.681100484	1.2961458598	1.118905491	0.0850100275
##	[771,]	0.366008776	-0.8498220257	-0.105432179	-0.5314932079
##	[772,]	-0.530013646	0.6478397590	-1.089480392	-1.6696541307
##	[773,]	0.181323037	-0.3057054265	-0.250064283	1.4965139378
##	[774,]	-0.212333771	0.3262654875	0.434959440	0.2427070172
##	[775,]	0.838694261	-0.2983358895	-0.971269025	-0.0445245697
##	[776,]	1.859462828	1.2901555808	0.262652896	1.6015930760
##	[777,]	1.157673166	1.6130560442	-0.709028061	0.3801309299
##	[778,]	-1.874743698	0.6869293212	-1.173665007	1.4089890754
##	[779,]	-0.938556775	-0.5060913976	-0.503923403	2.2233829696
##	[780,]	1.359097614	0.2267601155	0.471858347	1.4990557143
##	[781,]	0.547148272	0.5409904243	-0.339261424	-0.0401844714
##	[782,]	0.022587064	-1.8561990299	1.547208285	0.9879544412
##	[783,]	0.918259882	0.3545244304	1.571027256	-0.0366646828
##	[784,]	-0.302643007	0.7698556624	0.346019647	-0.0767766511
##	[785,]	0.492565661	-0.1542621875	1.178292490	-0.5561150444
##	[786,]	0.204211147	0.5507048271	-1.146305098	1.0686030503
##	[787,]	-0.257183817	0.2336040971	1.123859409	-0.5185419444
##	[788,]	0.543063337	0.6234021653	-1.131347444	0.6273988858
##	[789,]	-0.217183785	-0.6907220352	-0.685864712	0.4936833794
##	[790,]	-0.002701459	0.3035083319	0.085752568	1.9384771493
##	[791,]	-0.194052728	-0.9493652047	1.917475207	-1.7273993979
##	[792,]	0.845431479	-1.4698352964	-0.146736384	-1.0448488707
##	[793,]	-1.647067621	0.6384751268	-0.310467705	0.3842180222
##	[794,]	0.945669680	0.1794007539	0.292767308	0.0102121840
##	[795,]	-2.485011129	-0.2402476478	-0.301300146	0.8945430066
##	[796,]	1.005279636	1.8584771079	1.034315090	0.8920614265
##	[797,]	1.478264004	1.3121350582	0.227955433	-0.3372256260
##	[798,]	-1.616804251	1.2096288441	-1.151156897	1.1451518459
##	[799,]	1.038140145	0.8466614146	-1.083403826	0.0722179334
##	[800,]	0.746469846	0.2765778985	0.561647160	-0.4298599354
##	[801,]	-0.556307864	-0.0456759166	1.971112008	-1.0436187721
##	[802,]	-2.177327736	0.5194250374	-0.155340996	-0.4342227168
##	[803,]	-0.338747362	-0.4027749670	0.203384823	1.3513171402
##	[804,]	-0.633990675	0.1078086461	-0.498276540	0.9166483833
##	[805,]	1.200037746	0.1636459951	-0.669424590	1.4168204214

##	[806,]	1.684855316	-0.3779334520	0.327027687	1.5043815752
##	[807,]	-0.431731431	1.7144737015	-0.380880448	1.1181849590
##	[808,]	0.138154788	0.9153414309	-1.682319682	1.1967470173
##	[809,]	-1.650488404	0.5295445091	-0.807593163	0.5020435016
##	[810,]	-0.612761419	0.7413769370	-1.390922114	-0.4254145641
##	[811,]	1.585349922	-0.5093728908	0.106258222	0.6373119861
##	[812,]	1.599509777	-0.1056964660	0.748619497	-0.7681449296
##	[813,]	-1.025869745	1.3477216946	-0.738910301	1.6001633595
##	[814,]	-2.130238584	0.5708427530	-0.151512065	0.8093727096
##	[815,]	1.439833307	0.4824416158	0.291197537	1.1897631178
##	[816,]	0.403861828	1.1581435568	2.077530392	-0.7871043997
##	[817,]	1.375536299	2.0143169288	0.139228824	1.3061702445
##	[818,]	-0.490487983	-0.1572806637	0.452555831	-0.6568358462
##	[819,]	-0.630772432	1.5534041429	-0.445823033	0.5130090966
##	[820,]	-0.486622061	0.6107040206	1.563905684	-0.0540369071
##	[821,]	-0.116223543	-0.8410904398	-1.318381622	0.7860236629
##	[822,]	0.179643846	-0.7060772366	0.776774795	-0.3899379027
##	[823,]	-0.466270355	-1.6517316256	-1.509097450	0.5293243043
##	[824,]	0.048661014	0.0852320983	-1.697885339	0.1517039833
##	[825,]	-0.331229135	-2.2533628060	-0.980277696	-0.5937961761
##	[826,]	-0.536062480	-1.3797397364	-0.039556055	-0.4629360780
##	[827,]	0.864932594	-1.4716167122	0.229926053	0.6636682879
##	[828,]	0.526447405	-1.5936432408	-0.831765831	1.0556445667
##	[829,]	-0.225119186	-0.1348077340	-0.840426006	-1.0300770692
##	[830,]	2.261740089	0.0908662881	-1.280363592	-0.5219573422
##	[831,]	1.250861762	0.9664146665	2.265578942	-0.4105971018
##	[832,]	1.135042700	1.0463462233	-0.163558890	0.6845078066
##	[833,]	1.428237941	-2.1955664332	0.841100464	-0.0370202526
##	[834,]	1.361815180	-0.0028693609	-1.233517926	-0.9313254450
##	[835,]	-0.134462495	0.1288524241	0.124431451	-0.1064451406
##	[836,]	-1.394847925	0.7614551985	-0.481339913	-1.3562871018
##	[837,]	-0.135761498	1.0385154752	-0.095789380	0.5478382004
##	[838,]	1.402946556	0.3139790672	2.272047048	-1.4434687040
##	[839,]	-0.703591420	0.1438853661	-0.512260550	1.5282109110
##	[840,]	-0.146826633	-0.0142418170	-0.974990842	1.5507447323
##	[841,]	-0.427177695	0.1386498294	-0.213897675	0.4353623676
##	[842,]	-0.563154530	-0.2579449738	-0.533447652	-0.1224597560
##	[843,]	-0.701885869	-0.2825760479	-0.389929173	-0.2922138312
##	[844,]	1.614622283	1.9831261709	-0.767993887	2.0132991693
##	[845,]	2.464040070	1.7139917511	0.069050970	-0.4001675243
##	[846,]	0.447763989	-0.8135786116	-0.945008403	0.8164422001
##	[847,]	-0.781278494	-0.2534129562	-0.440159875	0.7613802311
##	[848,]	0.717720934	-2.0325640466	-0.210410308	1.0005715489
##	[849,]	-0.871038738	0.0704113809	-0.900483992	0.0551006157
##	[850,]	0.567265966	-0.0431024958	0.341625590	-0.5105233862
##	[851,]	-0.333888134	-1.2508617279	0.971035630	0.6659787699
##	[852,]	0.834218301	2.0904718195	-0.304768754	0.7019089592
##	[853,]	-0.803222648	1.6751687748	-0.299333222	1.5974825683
##	[854,]	0.783761055	0.3027687616	0.892460263	0.6820396276
##	[855,]	-1.260908613	0.6926879547	-0.390650643	0.2109442321

##	[856,]	0.100801590	1.9159001496	0.451729783	-0.6357786671
##	[857,]	-0.035335786	0.3119488197	-0.252862172	1.4188956958
##	[858,]	-0.453207653	-0.3511824166	-0.898151617	0.7301188658
##	[859,]	0.273967833	0.3883114899	-1.010334821	-0.3153650016
##	[860,]	-0.638568155	1.1851312712	-1.250289104	0.4802688476
##	[861,]	0.691531562	1.0928023739	-1.035883623	-0.8153903121
##	[862,]	0.283676294	0.1398655783	-0.313722607	1.1524431031
##	[863,]	-0.084926775	2.0854983248	-1.035547962	0.9426109107
##	[864,]	-0.371485457	-0.9085072567	-0.793951996	0.5529796323
##	[865,]	-0.495541483	0.3111521586	-0.718087584	-0.2150804199
##	[866,]	-0.184071688	-0.0757098226	-0.433889903	-0.1788309231
##	[867,]	0.373359744	-0.0422627762	0.733547230	-2.0086648602
##	[868,]	-0.583332795	0.5213544401	0.374186777	-1.2272432742
##	[869,]	-0.404497425	-0.0362615821	-0.432455384	0.2320147441
##	[870,]	0.204332879	-0.7634233568	1.027823013	1.1944498471
##	[871,]	0.183354250	-0.9848397531	-0.459450119	-0.2262597495
##	[872,]	1.195674803	2.0990891043	0.769852152	-0.7728400744
##	[873,]	-1.180917025	0.1719926861	2.139507517	-1.0313838266
##	[874,]	-0.617420543	0.3716211877	-0.419913853	0.2099594666
##	[875,]	-1.337583454	0.2291764254	-0.367828358	1.3475606408
##	[876,]	-1.777108072	0.7912216128	0.978781591	0.8108628782
##	[877,]	-1.154575898	1.8695975449	2.081010082	-0.4718248729
##	[878,]	2.475907042	0.6989759354	-0.966261488	-0.6119405442
##	[879,]	1.109179672	1.3954383789	0.904079527	-0.1755366047
##	[880,]	-0.541546902	1.5158889977	-0.235659382	-0.6335700700
##	[881,]	-1.037794378	0.4110290271	-0.543415883	1.3651992269
##	[882,]	0.743548024	-0.7169746923	0.682656724	0.8175844317
##	[883,]	-0.472397095	-1.4676290619	1.655278037	0.8467915566
##	[884,]	0.398107424	-0.8688849388	-1.266390630	0.1363223079
##	[885,]	0.094682429	0.1635760959	-1.096753414	1.6829708079
##	[886,]	0.009957098	-0.3391811792	1.002783846	1.2335289486
##	[887,]	-0.397041685	1.5808360137	-1.073233133	-2.2023030468
##	[888,]	0.019692654	-0.4307508709	0.029088122	-0.2581853371
##	[889,]	0.482151796	0.2572189627	1.425042444	1.9006539877
##	[890,]	1.581577048	0.1923325426	0.175921580	0.8267839106
##	[891,]	-1.564884156	2.4155787524	-0.324542370	0.3548938736
##	[892,]	-0.659521906	0.3285291839	-0.109135339	0.6306697317
##	[893,]	-0.803098306	1.0041930712	-0.609978544	-1.3710723219
##	[894,]	-0.293853271	-0.3769153552	-0.184609822	-0.6436547075
##	[895,]	-0.454319031	0.5146955517	0.139853973	1.7742240054
##	[896,]	-1.530072494	-0.6224529786	0.190202159	0.0235334197
##	[897,]	0.815835454	-0.2258329867	-1.389374701	-0.6104000559
##	[898,]	0.132942265	-0.3538061043	-0.558517963	-0.7754902833
##	[899,]	0.380114131	-0.8438322495	-0.090793113	-0.2699127970
##	[900,]	0.133241248	1.8419662157	-1.209899608	-0.9073918421
##	[901,]	0.403619447	-0.2215443249	-1.463009780	-0.0271026376
##	[902,]	-0.286406821	-1.3696198704	-1.269379043	-0.4979422727
##	[903,]	-0.622658051	-0.0700765740	0.089664330	-0.5630293192
##	[904,]	-0.516552626	1.0040919449	1.133982148	-1.1751519606
##	[905,]	0.589995378	0.7117440990	-0.717025625	0.5966326612

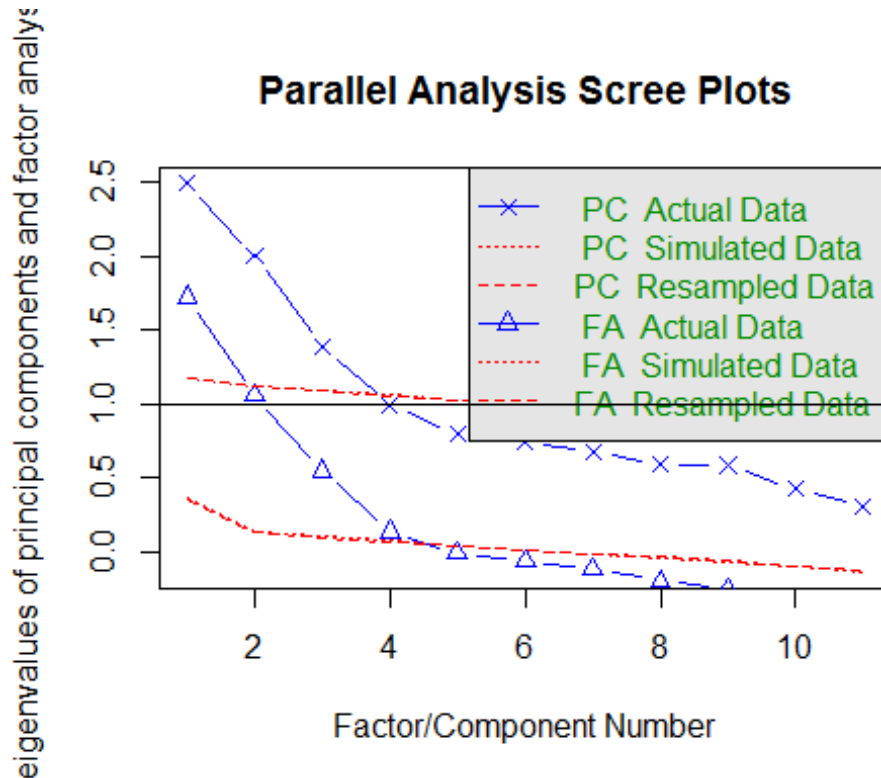
##	[906,]	0.167450700	1.7114196820	-1.443131359	1.1023567632
##	[907,]	-0.161095299	-0.2208389170	-1.508222437	-0.1488408142
##	[908,]	-0.644909980	-1.1401530711	-1.296987745	0.1042098234
##	[909,]	0.092760449	0.0962521279	0.189267406	-0.3089987599
##	[910,]	1.052574915	0.8183792222	-0.130074561	0.4288700288
##	[911,]	1.433927420	0.5242987262	-0.985556732	0.5848219818
##	[912,]	0.691532982	0.5030656747	0.060572942	-0.7586618572
##	[913,]	-0.441681183	-0.4724297773	0.802746944	-0.5966328754
##	[914,]	1.690524140	-1.2728329059	0.092908537	-0.5949376820
##	[915,]	2.300967555	-0.4093466337	0.284789934	0.4450485382
##	[916,]	-0.365651477	-0.6920320816	-1.038074643	0.8764721496
##	[917,]	-0.647500086	-0.2269598519	-1.589492065	-1.3019898007
##	[918,]	-1.016566113	0.5477780420	-0.923422704	-0.3691931728
##	[919,]	0.427447998	-0.7848418581	-0.009694263	-0.2547588134
##	[920,]	1.796599541	-1.2017041793	-0.080489201	1.0609938299
##	[921,]	-0.557008716	-2.5826127657	-0.810046819	-0.3153350307
##	[922,]	-0.846893868	0.5703764615	0.086671208	-0.2909397810
##	[923,]	0.249217976	2.4191030357	-0.124779350	0.2111577789
##	[924,]	0.198537713	-1.1924232778	0.472232259	0.5320684617
##	[925,]	-0.363290997	-0.8850436525	0.268542098	1.1818209320
##	[926,]	-0.183677834	-1.2746186813	0.192979098	2.2122698049
##	[927,]	-0.925495473	0.7566877907	-1.074314742	-1.2563424898
##	[928,]	-0.350491230	-0.3686576988	0.806268894	1.2010727344
##	[929,]	-0.529556994	-1.5652781532	1.289824082	0.8938072449
##	[930,]	1.151013751	-0.2270570415	0.306312061	-0.4066853827
##	[931,]	-0.542980053	0.1778224891	-0.585574309	0.1924454787
##	[932,]	-0.962611929	0.1631349678	-0.642645597	-0.3345159992
##	[933,]	-1.446229166	0.5624158141	1.382528356	1.0288773369
##	[934,]	0.557177104	-0.2199140508	-0.348205017	0.9151907537
##	[935,]	-0.282668700	-0.9647331122	-0.842461996	-0.9364424225
##	[936,]	-1.445701137	-1.4374077367	-0.660958895	1.2693778509
##	[937,]	-0.844271185	-1.0753847602	-0.042079889	0.2586786829
##	[938,]	0.641821817	0.3940854936	0.662704458	-0.8613301167
##	[939,]	1.058704109	-0.7249560765	0.444179910	-0.6511968493
##	[940,]	0.107500672	0.3039086287	0.418694714	-0.3010921345
##	[941,]	-0.650177823	-0.2443167966	-0.177959577	-0.9517802351
##	[942,]	1.437485375	-0.6356715130	-0.922227440	0.3499455061
##	[943,]	-0.129356773	-0.1901560182	-0.946816496	1.3680554185
##	[944,]	-0.176705029	0.5647921860	-0.271275626	0.7875259636
##	[945,]	-0.152618885	0.2528170139	0.522956663	1.0600288375
##	[946,]	-0.891774938	1.9881555353	-0.327685211	-1.2261685220
##	[947,]	-0.747120473	0.5589840198	-0.568832095	-0.4069912019
##	[948,]	-0.819215992	-1.4779022732	-0.145141108	0.7478662708
##	[949,]	-0.259130230	0.0650778501	2.576654961	0.3033871154
##	[950,]	-1.489255769	-0.8584417212	-0.210503611	-0.2355125171
##	[951,]	-0.977755688	0.6953591970	-0.468967284	-0.7668966814
##	[952,]	-1.808154093	1.9267999101	-0.422271192	-1.2789505186
##	[953,]	-0.128097985	0.3104801506	-0.155124594	-1.6698712140
##	[954,]	0.101474849	-0.3307048221	1.646127126	0.6285821308
##	[955,]	0.817445489	-0.4183655842	0.119193135	1.1785911226

##	[956,]	-0.161891762	0.3787032370	1.514757728	-0.4081523257
##	[957,]	-1.262432212	-1.3799795294	-0.633515777	-1.3055173379
##	[958,]	-1.756883433	-0.6963061297	-1.018721698	-1.4641026006
##	[959,]	-0.0044466022	-1.1648495652	1.730298475	2.0268527381
##	[960,]	-0.902432884	-0.6728746275	-0.415076608	-0.5033132979
##	[961,]	0.826858029	-0.1398680838	-0.594624524	-0.6464417353
##	[962,]	0.328952006	2.3173175115	1.681731742	0.2242278839
##	[963,]	0.684281851	-1.6671768849	-0.337908208	-1.2402988444
##	[964,]	-0.468265316	1.5742963678	-0.501768368	-1.0107949347
##	[965,]	0.479367625	0.4137536945	0.472135006	-0.4534190385
##	[966,]	0.781810001	-0.3594440655	-0.445402489	1.1803276604
##	[967,]	2.461577886	-1.0595087155	-0.152468903	2.0165763119
##	[968,]	0.528624365	0.8057373615	1.270545273	-1.2902179523
##	[969,]	-1.931175531	1.3812334509	0.360949087	-0.5805593263
##	[970,]	-0.647123796	-0.2693596870	-1.242696476	-0.1502711774
##	[971,]	0.269675520	0.5088579955	-1.174013986	-0.9506883907
##	[972,]	-0.241709768	0.6584978845	-0.349341216	-0.9089445326
##	[973,]	0.749243332	-0.2103832590	1.855949512	0.1049770055
##	[974,]	-0.177496995	-1.0234897874	0.022798094	-0.4716419345
##	[975,]	0.114533950	0.1948597662	0.444770923	-0.7592264683
##	[976,]	1.979763461	-0.3504580226	0.410083613	0.4903816772
##	[977,]	0.788689738	0.6492665463	0.060987033	0.1747288569
##	[978,]	-0.881456634	-0.2596090322	-1.173033264	0.3201045990
##	[979,]	0.494150974	-0.3112696869	-0.859413376	0.1017367634
##	[980,]	0.944494859	0.8206103014	-1.138990309	-0.0779093340
##	[981,]	1.142460000	-1.5099510803	-1.312208382	-1.2231446795
##	[982,]	1.008466095	-1.8641617131	-0.725975213	-0.8626947646
##	[983,]	-0.865889229	0.6597010328	-0.341752438	-0.0669748953
##	[984,]	-0.481995935	-0.5427662828	-0.783753552	1.6809898641
##	[985,]	-0.153880782	-1.0015160528	-1.316075804	-0.4710829660
##	[986,]	0.465129845	-1.4895264671	-0.947912202	-0.3174259258
##	[987,]	1.694297281	-0.5390831497	-0.507549319	-2.0575169254
##	[988,]	0.632630707	-0.4901047360	-0.661159251	-1.4558335760
##	[989,]	2.427050888	1.8079321446	1.702176925	-0.4424693992
##	[990,]	2.609594485	0.4161349725	-0.190739115	-0.1247252630
##	[991,]	-0.613185384	0.8429028101	-1.502931933	-1.1671968540
##	[992,]	-1.611391634	-0.8826797822	-1.106739457	-1.1372814990
##	[993,]	-0.820109859	-0.2514967980	0.457353787	-2.8985041326
##	[994,]	0.628294886	-0.6234968105	-1.976959104	0.7358637828
##	[995,]	0.358716948	-1.2236223580	0.089701922	0.0078966457
##	[996,]	-0.048766237	1.0929392074	-1.334796717	-0.4139528307
##	[997,]	-1.168297597	-1.1441959683	-0.685151131	-1.0306590105
##	[998,]	0.471818559	0.3456823559	-0.073062235	1.1562020103
##	[999,]	0.751649988	0.5335170061	0.481971887	-1.6854355599
##	[1000,]	1.744102191	1.5612373637	0.718071975	-1.2431756705
##	[1001,]	-1.116141486	-0.4023475284	1.796745606	1.9574460151
##	[1002,]	-0.830047788	-0.3012755628	-1.084560660	1.1503056306
##	[1003,]	-1.111560895	-0.4724648749	-0.996801880	-1.7517230388
##	[1004,]	0.001262349	-1.2436659511	-0.206117339	0.2604245601
##	[1005,]	-0.487159304	0.2940337244	0.175441993	-0.0970928106

```
## [1006,]  0.940923679 -0.7004614808 -0.332859940  1.1593730846
## [1007,] -1.049311064  1.1890934459  0.956772684 -0.9997233640
## [1008,] -0.750923700 -1.6190153305 -1.053104632 -1.5164567797
## [1009,]  1.134152886 -0.0963284274  0.069800430  0.9284038148
## [1010,] -1.456714583  0.0384581747  1.956798118  0.9061885496
```

Play with FA utilities

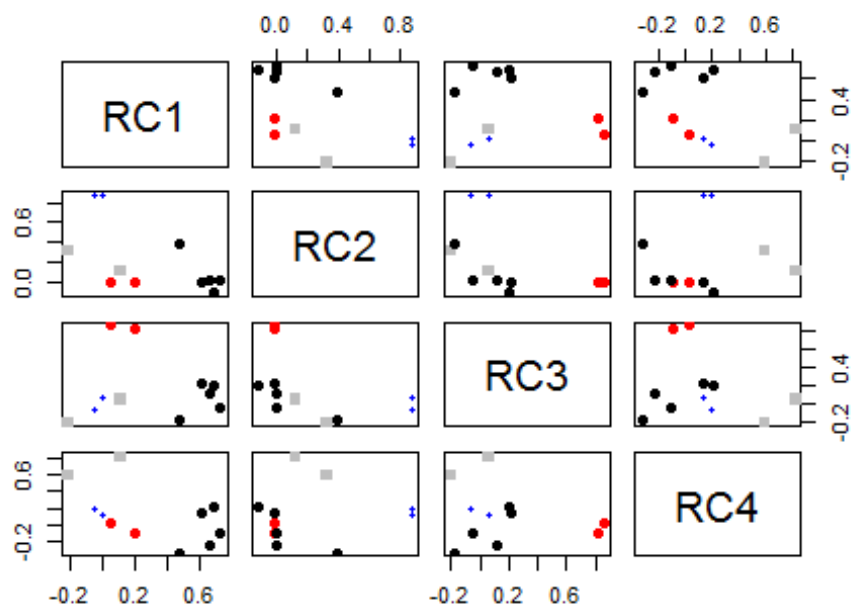
```
fa.parallel(movie_transformed[-1]) # See factor recommendation
```



Parallel analysis suggests that the number of factors = 4 and the number of components = 3

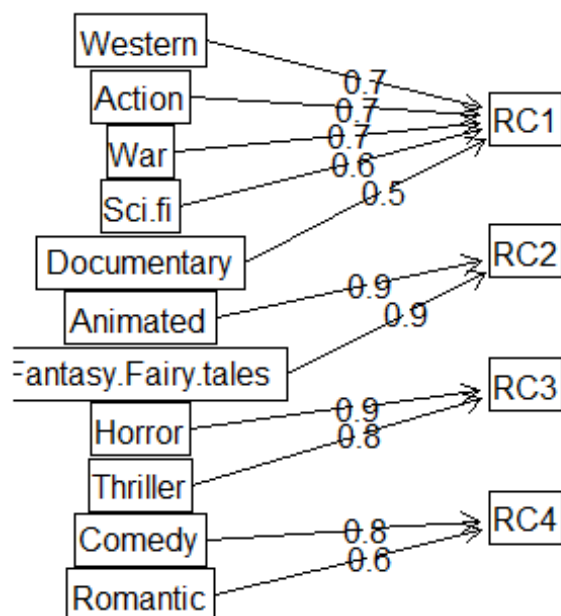
```
fa.plot(fit.pc.movies) # See Correlations within Factors
```

Principal Component Analysis

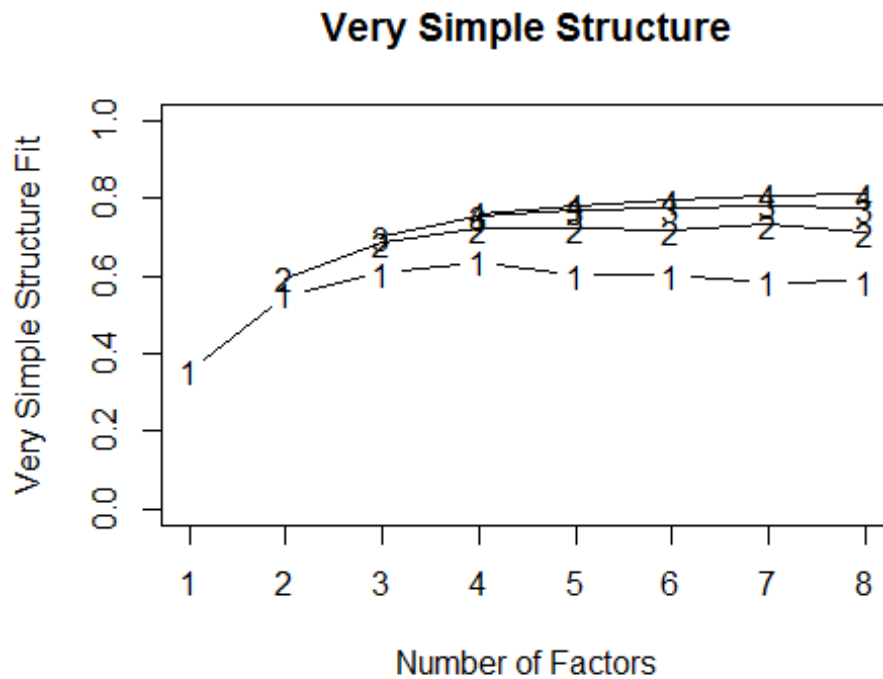


```
fa.diagram(fit.pc.movies) # Visualize the relationship
```

Components Analysis



```
vss(movie_transformed[-1]) # See Factor recommendations for a simple structure
```



```
##
## Very Simple Structure
## Call: vss(x = movie_transformed[-1])
## VSS complexity 1 achieves a maximum of 0.64 with 4 factors
## VSS complexity 2 achieves a maximum of 0.72 with 5 factors
##
## The Velicer MAP achieves a minimum of 0.039 with 4 factors
## BIC achieves a minimum of NA with 5 factors
## Sample Size adjusted BIC achieves a minimum of NA with 5 factors
##
## Statistics by number of factors
##   vss1 vss2  map dof  chisq    prob sqresid  fit RMSEA   BIC  SABIC
## 1 0.36 0.00 0.039 44 1.3e+03 2.3e-243 10.1 0.36 0.168 994.3 1134.0
## 2 0.55 0.59 0.037 34 4.7e+02 2.3e-77 6.4 0.59 0.112 230.9 338.9
## 3 0.61 0.69 0.048 25 1.8e+02 7.5e-25 4.7 0.70 0.078 4.1 83.5
## 4 0.64 0.72 0.064 17 7.4e+01 4.9e-09 3.7 0.76 0.057 -43.9 10.1
## 5 0.60 0.72 0.090 10 2.1e+01 2.4e-02 3.3 0.79 0.032 -48.6 -16.8
## 6 0.60 0.72 0.134 4 6.0e+00 2.0e-01 3.1 0.81 0.022 -21.6 -8.9
```

```

1.7
## 7 0.58 0.73 0.227 -1 1.9e-01      NA      2.7 0.83      NA      NA      NA
1.5
## 8 0.59 0.71 0.366 -5 5.3e-06      NA      2.6 0.84      NA      NA      NA
1.6
##      eChisq      SRMR eCRMS      eBIC
## 1 2.2e+03 1.4e-01 0.157 1886.8
## 2 6.1e+02 7.4e-02 0.094 375.3
## 3 1.7e+02 3.9e-02 0.058 -2.4
## 4 5.4e+01 2.2e-02 0.040 -63.3
## 5 1.2e+01 1.1e-02 0.025 -56.9
## 6 3.2e+00 5.4e-03 0.020 -24.5
## 7 1.3e-01 1.1e-03      NA      NA
## 8 2.3e-06 4.5e-06      NA      NA

```

@Conclusion : The proportion of the total variance for RC2 is about 85% which restores maximum of the total variance. Also the components for RC2 contribute to Animated and Fantasy Fairy tales movies.

```
#music_pca
```

```
eigvec.music<- music_pca$rotation
```

```
pcafactors.music<- eigvec.music[,1:4]
```

```
pcafactors.music
```

```

##              PC1              PC2              PC3              PC4
## Music          -0.07348587 -0.06637258  0.20393520 -0.27285334
## Slow.songs.or.fast.songs  0.07909389 -0.03715789  0.33673187 -0.38692865
## Dance           0.10593604 -0.40686613  0.25266992 -0.18809943
## Folk            -0.23536427 -0.20395715 -0.17735902 -0.15261096
## Country         -0.22165587 -0.16378995 -0.08826069 -0.07278389
## Classical.music -0.33427216 -0.11363745 -0.22530674 -0.19648989
## Musical         -0.21306339 -0.27761360 -0.19176926 -0.04813964
## Pop             0.07948200 -0.36864939  0.10610310 -0.08628967
## Rock            -0.31408320  0.16381242  0.24497619 -0.13760973
## Metal.or.Hardrock -0.26788754  0.27493723  0.20888397 -0.20728971
## Punk            -0.25877936  0.22880832  0.32746991 -0.01776324
## Hiphop..Rap      0.14668504 -0.28399372  0.32226482  0.21487767
## Reggae..Ska      -0.17063495 -0.13437788  0.33404941  0.51149310
## Swing..Jazz      -0.32246691 -0.16834386  0.02878952  0.30067030
## Rock.n.roll      -0.35567777 -0.02784195  0.15705958  0.11136720
## Alternative      -0.29273952  0.12627082  0.16107910  0.04377580
## Latino           -0.11432176 -0.39837369 -0.03575959  0.17249177
## Techno..Trance    0.09648161 -0.23597716  0.27927306 -0.33307335
## Opera            -0.28734109 -0.14638664 -0.29342147 -0.21923779

```

```

unrot.fact.music<- sweep(pcafactors.music,MARGIN=2,music_pca$sdev[1:4],`*`)
unrot.fact.music

```

```

##              PC1              PC2              PC3              PC4
## Music          -0.1433502 -0.10832106  0.28518790 -0.29013933

```

```
## Slow.songs.or.fast.songs  0.1542899 -0.06064224  0.47089398 -0.41144162
## Dance                    0.2066513 -0.66401175  0.35333971 -0.20001603
## Folk                    -0.4591293 -0.33286119 -0.24802313 -0.16227928
## Country                 -0.4323881 -0.26730770 -0.12342589 -0.07739495
## Classical.music        -0.6520707 -0.18545805 -0.31507439 -0.20893805
## Musical                -0.4156266 -0.45306965 -0.26817476 -0.05118942
## Pop                    0.1550470 -0.60164144  0.14837714 -0.09175636
## Rock                   -0.6126878  0.26734437  0.34258062 -0.14632767
## Metal.or.Hardrock      -0.5225731  0.44870175  0.29210838 -0.22042207
## Punk                   -0.5048056  0.37341868  0.45794183 -0.01888858
## Hiphop..Rap            0.2861411 -0.46348209  0.45066292  0.22849075
## Reggae..Ska           -0.3328607 -0.21930675  0.46714277  0.54389757
## Swing..Jazz            -0.6290420 -0.27473976  0.04025996  0.31971858
## Rock.n.roll            -0.6938270 -0.04543849  0.21963591  0.11842262
## Alternative            -0.5710523  0.20607591  0.22525691  0.04654911
## Latino                 -0.2230095 -0.65015195 -0.05000708  0.18341958
## Techno..Trance         0.1882084 -0.38511833  0.39054219 -0.35417445
## Opera                  -0.5605214 -0.23890524 -0.41032767 -0.23312709
```

```
communalities.music<- rowSums(unrot.fact.music^2)
communalities.music # 1 - this would be your unique variance
```

```
##           Music Slow.songs.or.fast.songs           Dance
##           0.1977957           0.4185082           0.6484717
##           Folk           Country           Classical.music
##           0.4094463           0.2796368           0.6025179
##           Musical           Pop           Rock
##           0.4525556           0.4164470           0.5856326
##           Metal.or.Hardrock           Punk           Hiphop..Rap
##           0.6083291           0.6043377           0.5519975
##           Reggae..Ska           Swing..Jazz           Rock.n.roll
##           0.6729386           0.5750166           0.5457245
##           Alternative           Latino           Techno..Trance
##           0.4214755           0.5085743           0.4617013
##           Opera
##           0.5939770
```

```
rot.fact.music<- varimax(unrot.fact.music)
View(unrot.fact.music)
rot.fact.music
```

```
## $loadings
##
```

```
## Loadings:
```

```
##           PC1      PC2      PC3      PC4
## Music           -0.234                -0.367
## Slow.songs.or.fast.songs -0.167  0.139  0.201 -0.575
## Dance           0.259 -0.239                -0.719
## Folk                        -0.637
## Country         -0.113                -0.506
## Classical.music -0.225                -0.734
```

```
## Musical          -0.141 -0.653
## Pop              0.314 -0.225 -0.157 -0.492
## Rock            -0.750          -0.148
## Metal.or.Hardrock -0.763  0.154
## Punk            -0.769
## Hiphop..Rap      0.228 -0.505  0.221 -0.443
## Reggae..Ska      -0.279 -0.771
## Swing..Jazz      -0.269 -0.513 -0.474  0.124
## Rock.n.roll      -0.548 -0.337 -0.361
## Alternative      -0.602 -0.146 -0.162  0.106
## Latino           0.222 -0.459 -0.467 -0.175
## Techno..Trance          -0.675
## Opera            0.124 -0.750
```

```
##
##          PC1    PC2    PC3    PC4
## SS loadings  2.981 1.671 2.944 1.959
## Proportion Var 0.157 0.088 0.155 0.103
## Cumulative Var 0.157 0.245 0.400 0.503
```

```
## $rotmat
```

```
##          [,1]      [,2]      [,3]      [,4]
## [1,]  0.6858691  0.1990255  0.6756205 -0.1830555
## [2,] -0.4947428  0.4482655  0.5156896  0.5369840
## [3,] -0.5126594 -0.3915478  0.4732294 -0.5999372
## [4,]  0.1483017 -0.7785482  0.2316358  0.5641048
```

```
fact.load.music<- rot.fact.music$loadings[1:9,1:4]
fact.load.music
```

```
##          PC1          PC2          PC3          PC4
## Music      -0.23396084  0.03713580 -0.08495777 -0.36668944
## Slow.songs.or.fast.songs -0.16660075  0.13947341  0.20050508 -0.57541052
## Dance       0.25944517 -0.23915194 -0.08192621 -0.71920400
## Folk        -0.04713682 -0.01713348 -0.63681176 -0.03743921
## Country     -0.11251543 -0.09729824 -0.50631426 -0.03400002
## Classical.music -0.22494114  0.07312188 -0.73369114  0.09093902
## Musical      0.06897835 -0.14095911 -0.65321463 -0.03519661
## Pop          0.31432516 -0.22549679 -0.15654495 -0.49223121
## Rock        -0.74981815 -0.02231278 -0.14785324 -0.03235545
```

```
scale.music<- scale(music_transformed[-1])
scale.music
```

```
##          Slow.songs.or.fast.songs      Dance      Folk      Country
## [1,]      -0.3944068 -0.9535242 -1.1320495 -0.1199369
## [2,]       0.8054452 -0.9535242 -1.1320495 -1.0446413
## [3,]       2.0052972 -0.9535242 -0.2552320  0.8047675
## [4,]      -0.3944068 -0.9535242 -1.1320495 -1.0446413
## [5,]      -0.3944068  0.7540280  0.6215855 -0.1199369
## [6,]      -0.3944068 -0.9535242  0.6215855 -0.1199369
## [7,]       2.0052972  1.6078041  0.6215855 -1.0446413
```

##	[8,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[9,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
##	[10,]	-0.3944068	-0.9535242	2.3752204	-0.1199369
##	[11,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[12,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
##	[13,]	-0.3944068	-1.8073003	-0.2552320	-1.0446413
##	[14,]	-0.3944068	1.6078041	0.6215855	-0.1199369
##	[15,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
##	[16,]	-0.3944068	-0.9535242	-0.2552320	0.8047675
##	[17,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
##	[18,]	-0.3944068	-0.0997481	0.6215855	0.8047675
##	[19,]	-0.3944068	1.6078041	1.4984029	0.8047675
##	[20,]	0.8054452	-0.0997481	0.6215855	-0.1199369
##	[21,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
##	[22,]	2.0052972	-1.8073003	-1.1320495	0.8047675
##	[23,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
##	[24,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
##	[25,]	-1.5942588	-0.0997481	-1.1320495	-1.0446413
##	[26,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
##	[27,]	2.0052972	1.6078041	2.3752204	1.7294720
##	[28,]	2.0052972	-0.0997481	1.4984029	-1.0446413
##	[29,]	-0.3944068	1.6078041	-1.1320495	-1.0446413
##	[30,]	0.8054452	-0.0997481	1.4984029	-0.1199369
##	[31,]	-0.3944068	0.7540280	0.6215855	0.8047675
##	[32,]	-0.3944068	0.7540280	-1.1320495	0.8047675
##	[33,]	2.0052972	-0.0997481	-1.1320495	0.8047675
##	[34,]	0.8054452	-0.9535242	-0.2552320	0.8047675
##	[35,]	0.8054452	-0.0997481	-0.2552320	-1.0446413
##	[36,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
##	[37,]	-0.3944068	-1.8073003	0.6215855	-0.1199369
##	[38,]	2.0052972	-1.8073003	-1.1320495	-1.0446413
##	[39,]	2.0052972	1.6078041	0.6215855	-1.0446413
##	[40,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
##	[41,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
##	[42,]	0.8054452	1.6078041	2.3752204	2.6541764
##	[43,]	2.0052972	-0.9535242	-0.2552320	-0.1199369
##	[44,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
##	[45,]	0.8054452	0.7540280	-0.2552320	-1.0446413
##	[46,]	0.8054452	1.6078041	-0.2552320	-0.1199369
##	[47,]	-0.3944068	0.7540280	0.6215855	1.7294720
##	[48,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
##	[49,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
##	[50,]	0.8054452	-0.9535242	-1.1320495	-0.1199369
##	[51,]	-0.3944068	-0.9535242	1.4984029	-0.1199369
##	[52,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
##	[53,]	-0.3944068	1.6078041	2.3752204	2.6541764
##	[54,]	-0.3944068	0.7540280	1.4984029	0.8047675
##	[55,]	-0.3944068	1.6078041	2.3752204	0.8047675
##	[56,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
##	[57,]	-0.3944068	-1.8073003	-0.2552320	0.8047675

##	[58,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
##	[59,]	2.0052972	1.6078041	0.6215855	-0.1199369
##	[60,]	0.8054452	-0.9535242	-1.1320495	-0.1199369
##	[61,]	-1.5942588	-0.9535242	-0.2552320	-0.1199369
##	[62,]	-0.3944068	1.6078041	-1.1320495	-0.1199369
##	[63,]	-0.3944068	1.6078041	1.4984029	2.6541764
##	[64,]	0.8054452	1.6078041	-1.1320495	0.8047675
##	[65,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
##	[66,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
##	[67,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
##	[68,]	0.8054452	0.7540280	0.6215855	-0.1199369
##	[69,]	2.0052972	-0.0997481	-0.2552320	-1.0446413
##	[70,]	0.8054452	-1.8073003	-1.1320495	-1.0446413
##	[71,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
##	[72,]	-0.3944068	-0.9535242	0.6215855	-1.0446413
##	[73,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
##	[74,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
##	[75,]	-0.3944068	-0.9535242	-1.1320495	1.7294720
##	[76,]	-0.3944068	-0.0997481	1.4984029	1.7294720
##	[77,]	0.8054452	0.7540280	-1.1320495	-1.0446413
##	[78,]	-0.3944068	1.6078041	-1.1320495	-0.1199369
##	[79,]	0.8054452	0.7540280	-0.2552320	1.7294720
##	[80,]	-0.3944068	0.7540280	1.4984029	1.7294720
##	[81,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
##	[82,]	0.8054452	0.7540280	-1.1320495	-0.1199369
##	[83,]	2.0052972	-1.8073003	0.6215855	-1.0446413
##	[84,]	-0.3944068	1.6078041	-1.1320495	-0.1199369
##	[85,]	-0.3944068	-1.8073003	-1.1320495	1.7294720
##	[86,]	-1.5942588	-0.0997481	0.6215855	2.6541764
##	[87,]	-0.3944068	0.7540280	0.6215855	0.8047675
##	[88,]	0.8054452	0.7540280	-1.1320495	-0.1199369
##	[89,]	2.0052972	1.6078041	-1.1320495	-1.0446413
##	[90,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[91,]	-1.5942588	-0.0997481	-0.2552320	-1.0446413
##	[92,]	2.0052972	-1.8073003	2.3752204	-1.0446413
##	[93,]	-1.5942588	-1.8073003	0.6215855	1.7294720
##	[94,]	0.8054452	-1.8073003	2.3752204	2.6541764
##	[95,]	2.0052972	1.6078041	-1.1320495	-1.0446413
##	[96,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
##	[97,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
##	[98,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
##	[99,]	2.0052972	1.6078041	-1.1320495	-1.0446413
##	[100,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
##	[101,]	0.8054452	0.7540280	0.6215855	-0.1199369
##	[102,]	-0.3944068	-1.8073003	0.6215855	-0.1199369
##	[103,]	-0.3944068	-1.8073003	-0.2552320	0.8047675
##	[104,]	2.0052972	1.6078041	-0.2552320	-0.1199369
##	[105,]	0.8054452	-0.0997481	0.6215855	-0.1199369
##	[106,]	2.0052972	-1.8073003	0.6215855	-1.0446413
##	[107,]	-0.3944068	0.7540280	1.4984029	2.6541764

## [108,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
## [109,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [110,]	-1.5942588	-0.9535242	-0.2552320	1.7294720
## [111,]	0.8054452	0.7540280	2.3752204	-0.1199369
## [112,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [113,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [114,]	0.8054452	0.7540280	-0.2552320	0.8047675
## [115,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [116,]	0.8054452	1.6078041	-0.2552320	-0.1199369
## [117,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [118,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [119,]	-0.3944068	-1.8073003	-0.2552320	-0.1199369
## [120,]	-1.5942588	0.7540280	-0.2552320	-1.0446413
## [121,]	2.0052972	0.7540280	-1.1320495	-0.1199369
## [122,]	-0.3944068	-0.9535242	0.6215855	1.7294720
## [123,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [124,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [125,]	0.8054452	-1.8073003	1.4984029	2.6541764
## [126,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [127,]	2.0052972	0.7540280	-1.1320495	-1.0446413
## [128,]	-0.3944068	-0.0997481	0.6215855	1.7294720
## [129,]	2.0052972	1.6078041	-1.1320495	2.6541764
## [130,]	0.8054452	1.6078041	0.6215855	-1.0446413
## [131,]	-1.5942588	-0.9535242	-1.1320495	-1.0446413
## [132,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [133,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [134,]	-0.3944068	-0.9535242	1.4984029	-1.0446413
## [135,]	-0.3944068	0.7540280	0.6215855	0.8047675
## [136,]	-0.3944068	-0.9535242	-1.1320495	0.8047675
## [137,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [138,]	-0.3944068	0.7540280	0.6215855	0.8047675
## [139,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [140,]	0.8054452	1.6078041	0.6215855	-0.1199369
## [141,]	0.8054452	-0.0997481	-0.2552320	-1.0446413
## [142,]	0.8054452	-1.8073003	0.6215855	-1.0446413
## [143,]	0.8054452	0.7540280	-1.1320495	0.8047675
## [144,]	0.8054452	0.7540280	-0.2552320	-1.0446413
## [145,]	-1.5942588	-0.0997481	-1.1320495	-0.1199369
## [146,]	0.8054452	0.7540280	-1.1320495	-1.0446413
## [147,]	-0.3944068	1.6078041	-0.2552320	-1.0446413
## [148,]	0.8054452	-0.0997481	-0.2552320	0.8047675
## [149,]	-0.3944068	0.7540280	1.4984029	1.7294720
## [150,]	-0.3944068	-1.8073003	0.6215855	-1.0446413
## [151,]	-1.5942588	-0.9535242	-0.2552320	0.8047675
## [152,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [153,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [154,]	2.0052972	1.6078041	-0.2552320	-0.1199369
## [155,]	-0.3944068	-1.8073003	-0.2552320	1.7294720
## [156,]	0.8054452	0.7540280	0.6215855	0.8047675
## [157,]	0.8054452	-0.9535242	1.4984029	0.8047675

##	[158,]	2.0052972	0.7540280	1.4984029	1.7294720
##	[159,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
##	[160,]	-0.3944068	0.7540280	1.4984029	0.8047675
##	[161,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[162,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
##	[163,]	-1.5942588	-0.0997481	2.3752204	1.7294720
##	[164,]	2.0052972	-0.0997481	-1.1320495	-1.0446413
##	[165,]	0.8054452	0.7540280	-0.2552320	-1.0446413
##	[166,]	0.8054452	1.6078041	-0.2552320	1.7294720
##	[167,]	2.0052972	-1.8073003	-0.2552320	-1.0446413
##	[168,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
##	[169,]	0.8054452	0.7540280	-1.1320495	-0.1199369
##	[170,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
##	[171,]	-0.3944068	-0.9535242	0.6215855	-0.1199369
##	[172,]	0.8054452	-0.0997481	-1.1320495	-0.1199369
##	[173,]	-0.3944068	-0.9535242	0.6215855	0.8047675
##	[174,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
##	[175,]	-1.5942588	-1.8073003	2.3752204	0.8047675
##	[176,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
##	[177,]	-0.3944068	-0.0997481	2.3752204	-1.0446413
##	[178,]	-0.3944068	-1.8073003	1.4984029	-0.1199369
##	[179,]	-0.3944068	-1.8073003	0.6215855	0.8047675
##	[180,]	-0.3944068	-1.8073003	-0.2552320	-0.1199369
##	[181,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
##	[182,]	-0.3944068	0.7540280	0.6215855	0.8047675
##	[183,]	-0.3944068	0.7540280	0.6215855	-0.1199369
##	[184,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[185,]	0.8054452	-0.9535242	-0.2552320	-0.1199369
##	[186,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
##	[187,]	-1.5942588	-0.9535242	1.4984029	-0.1199369
##	[188,]	-0.3944068	-1.8073003	-0.2552320	-0.1199369
##	[189,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
##	[190,]	-0.3944068	-1.8073003	0.6215855	-0.1199369
##	[191,]	0.8054452	-0.9535242	-0.2552320	-0.1199369
##	[192,]	-0.3944068	-0.9535242	2.3752204	-0.1199369
##	[193,]	-2.7941108	0.7540280	-1.1320495	-0.1199369
##	[194,]	-0.3944068	-1.8073003	1.4984029	0.8047675
##	[195,]	0.8054452	-1.8073003	-0.2552320	-1.0446413
##	[196,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
##	[197,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
##	[198,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
##	[199,]	-0.3944068	-0.0997481	1.4984029	-0.1199369
##	[200,]	0.8054452	0.7540280	-1.1320495	-1.0446413
##	[201,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
##	[202,]	-0.3944068	-0.9535242	1.4984029	0.8047675
##	[203,]	-0.3944068	1.6078041	-1.1320495	-1.0446413
##	[204,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
##	[205,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
##	[206,]	-2.7941108	-0.9535242	1.4984029	0.8047675
##	[207,]	-0.3944068	1.6078041	-0.2552320	-0.1199369

##	[208,]	-0.3944068	-0.9535242	0.6215855	0.8047675
##	[209,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[210,]	-1.5942588	0.7540280	0.6215855	0.8047675
##	[211,]	0.8054452	1.6078041	2.3752204	2.6541764
##	[212,]	0.8054452	1.6078041	-1.1320495	-0.1199369
##	[213,]	-0.3944068	-1.8073003	0.6215855	0.8047675
##	[214,]	0.8054452	0.7540280	-0.2552320	0.8047675
##	[215,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
##	[216,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
##	[217,]	0.8054452	-1.8073003	-1.1320495	-1.0446413
##	[218,]	-0.3944068	0.7540280	-1.1320495	0.8047675
##	[219,]	0.8054452	-0.9535242	-1.1320495	0.8047675
##	[220,]	2.0052972	1.6078041	-1.1320495	-1.0446413
##	[221,]	-0.3944068	0.7540280	0.6215855	0.8047675
##	[222,]	-0.3944068	0.7540280	2.3752204	-1.0446413
##	[223,]	-0.3944068	-0.0997481	-0.2552320	1.7294720
##	[224,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
##	[225,]	-0.3944068	-0.9535242	-0.2552320	0.8047675
##	[226,]	0.8054452	-0.9535242	0.6215855	-0.1199369
##	[227,]	2.0052972	1.6078041	2.3752204	1.7294720
##	[228,]	-1.5942588	-0.9535242	1.4984029	0.8047675
##	[229,]	-0.3944068	-0.0997481	2.3752204	0.8047675
##	[230,]	-0.3944068	0.7540280	-0.2552320	1.7294720
##	[231,]	-1.5942588	-0.9535242	2.3752204	1.7294720
##	[232,]	-2.7941108	-0.0997481	-0.2552320	0.8047675
##	[233,]	-0.3944068	-1.8073003	-0.2552320	1.7294720
##	[234,]	0.8054452	0.7540280	-0.2552320	-0.1199369
##	[235,]	0.8054452	0.7540280	1.4984029	0.8047675
##	[236,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
##	[237,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
##	[238,]	0.8054452	0.7540280	-0.2552320	-1.0446413
##	[239,]	-1.5942588	-0.9535242	-1.1320495	-0.1199369
##	[240,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
##	[241,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
##	[242,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
##	[243,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[244,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
##	[245,]	-0.3944068	1.6078041	-0.2552320	1.7294720
##	[246,]	-0.3944068	-0.9535242	0.6215855	0.8047675
##	[247,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
##	[248,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[249,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
##	[250,]	-0.3944068	-0.0997481	1.4984029	1.7294720
##	[251,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
##	[252,]	2.0052972	1.6078041	-0.2552320	-0.1199369
##	[253,]	-1.5942588	-0.9535242	-0.2552320	0.8047675
##	[254,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
##	[255,]	-0.3944068	1.6078041	0.6215855	-0.1199369
##	[256,]	-0.3944068	-0.9535242	2.3752204	1.7294720
##	[257,]	-0.3944068	-0.0997481	1.4984029	-0.1199369

## [258,]	-0.3944068	1.6078041	0.6215855	-0.1199369
## [259,]	0.8054452	-1.8073003	-0.2552320	-1.0446413
## [260,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [261,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [262,]	-0.3944068	0.7540280	-0.2552320	0.8047675
## [263,]	0.8054452	-0.0997481	1.4984029	-0.1199369
## [264,]	2.0052972	1.6078041	-0.2552320	-0.1199369
## [265,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
## [266,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [267,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [268,]	-0.3944068	0.7540280	0.6215855	1.7294720
## [269,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [270,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [271,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [272,]	-0.3944068	0.7540280	0.6215855	-1.0446413
## [273,]	-0.3944068	-0.9535242	1.4984029	0.8047675
## [274,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [275,]	0.8054452	1.6078041	0.6215855	0.8047675
## [276,]	-0.3944068	-0.0997481	0.6215855	1.7294720
## [277,]	0.8054452	1.6078041	0.6215855	2.6541764
## [278,]	-0.3944068	-0.9535242	-1.1320495	0.8047675
## [279,]	0.8054452	-0.0997481	2.3752204	-0.1199369
## [280,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [281,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [282,]	-0.3944068	0.7540280	-0.2552320	0.8047675
## [283,]	-0.3944068	-1.8073003	-1.1320495	-0.1199369
## [284,]	-0.3944068	0.7540280	-0.2552320	0.8047675
## [285,]	-1.5942588	-1.8073003	-1.1320495	-1.0446413
## [286,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [287,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [288,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [289,]	-0.3944068	1.6078041	0.6215855	2.6541764
## [290,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [291,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [292,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [293,]	0.8054452	1.6078041	-0.2552320	0.8047675
## [294,]	-2.7941108	-0.9535242	-0.2552320	-0.1199369
## [295,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [296,]	-0.3944068	-0.0997481	-0.2552320	2.6541764
## [297,]	0.8054452	1.6078041	-1.1320495	-1.0446413
## [298,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [299,]	-0.3944068	1.6078041	-0.2552320	0.8047675
## [300,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [301,]	-1.5942588	-1.8073003	2.3752204	-0.1199369
## [302,]	-1.5942588	-1.8073003	-0.2552320	-1.0446413
## [303,]	0.8054452	1.6078041	1.4984029	-1.0446413
## [304,]	2.0052972	-0.9535242	-0.2552320	1.7294720
## [305,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [306,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [307,]	2.0052972	1.6078041	0.6215855	0.8047675

## [308,]	-0.3944068	-1.8073003	1.4984029	0.8047675
## [309,]	2.0052972	1.6078041	-0.2552320	0.8047675
## [310,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [311,]	2.0052972	0.7540280	-1.1320495	-1.0446413
## [312,]	0.8054452	1.6078041	2.3752204	-0.1199369
## [313,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [314,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [315,]	0.8054452	1.6078041	1.4984029	2.6541764
## [316,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
## [317,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [318,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [319,]	-0.3944068	-0.9535242	0.6215855	1.7294720
## [320,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [321,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [322,]	-0.3944068	-0.0997481	-0.2552320	1.7294720
## [323,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [324,]	-1.5942588	-0.9535242	-1.1320495	1.7294720
## [325,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [326,]	-0.3944068	0.7540280	1.4984029	0.8047675
## [327,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [328,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [329,]	2.0052972	-0.0997481	0.6215855	1.7294720
## [330,]	-0.3944068	0.7540280	-0.2552320	0.8047675
## [331,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [332,]	2.0052972	-0.0997481	-0.2552320	0.8047675
## [333,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
## [334,]	-1.5942588	-0.0997481	-0.2552320	0.8047675
## [335,]	-1.5942588	-0.9535242	0.6215855	0.8047675
## [336,]	2.0052972	0.7540280	0.6215855	-0.1199369
## [337,]	0.8054452	-0.0997481	-1.1320495	-0.1199369
## [338,]	-0.3944068	1.6078041	-1.1320495	-0.1199369
## [339,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [340,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [341,]	-2.7941108	-1.8073003	0.6215855	-0.1199369
## [342,]	0.8054452	-1.8073003	-1.1320495	-1.0446413
## [343,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [344,]	0.8054452	-0.0997481	2.3752204	-0.1199369
## [345,]	-0.3944068	-0.9535242	1.4984029	1.7294720
## [346,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [347,]	0.8054452	-1.8073003	-1.1320495	-1.0446413
## [348,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [349,]	0.8054452	-0.0997481	2.3752204	-0.1199369
## [350,]	0.8054452	1.6078041	-0.2552320	-1.0446413
## [351,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [352,]	-0.3944068	-0.0997481	-0.2552320	1.7294720
## [353,]	2.0052972	-0.9535242	-1.1320495	0.8047675
## [354,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [355,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [356,]	0.8054452	-0.9535242	-1.1320495	0.8047675
## [357,]	0.8054452	-0.0997481	0.6215855	1.7294720

## [358,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [359,]	-0.3944068	1.6078041	0.6215855	0.8047675
## [360,]	-0.3944068	0.7540280	-0.2552320	1.7294720
## [361,]	-0.3944068	0.7540280	-1.1320495	-0.1199369
## [362,]	-2.7941108	-0.0997481	2.3752204	2.6541764
## [363,]	-0.3944068	-0.9535242	0.6215855	-0.1199369
## [364,]	-0.3944068	-1.8073003	0.6215855	-0.1199369
## [365,]	0.8054452	0.7540280	-0.2552320	0.8047675
## [366,]	-0.3944068	-0.9535242	-0.2552320	0.8047675
## [367,]	-1.5942588	-0.9535242	-1.1320495	-0.1199369
## [368,]	-0.3944068	-0.0997481	-1.1320495	0.8047675
## [369,]	0.8054452	1.6078041	-0.2552320	-0.1199369
## [370,]	-0.3944068	1.6078041	0.6215855	-0.1199369
## [371,]	0.8054452	-0.0997481	0.6215855	-0.1199369
## [372,]	-0.3944068	1.6078041	2.3752204	2.6541764
## [373,]	0.8054452	-0.9535242	-0.2552320	-0.1199369
## [374,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [375,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [376,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [377,]	2.0052972	-0.0997481	-1.1320495	-1.0446413
## [378,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [379,]	2.0052972	1.6078041	-0.2552320	-0.1199369
## [380,]	-0.3944068	1.6078041	1.4984029	0.8047675
## [381,]	0.8054452	0.7540280	0.6215855	-0.1199369
## [382,]	0.8054452	-0.9535242	-0.2552320	0.8047675
## [383,]	-0.3944068	0.7540280	0.6215855	1.7294720
## [384,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [385,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [386,]	-0.3944068	1.6078041	1.4984029	1.7294720
## [387,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [388,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [389,]	-0.3944068	-0.0997481	1.4984029	-0.1199369
## [390,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [391,]	-0.3944068	-1.8073003	-1.1320495	-0.1199369
## [392,]	0.8054452	-0.0997481	0.6215855	0.8047675
## [393,]	0.8054452	0.7540280	0.6215855	-1.0446413
## [394,]	0.8054452	-1.8073003	-1.1320495	0.8047675
## [395,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [396,]	0.8054452	-0.0997481	-1.1320495	0.8047675
## [397,]	-0.3944068	-0.0997481	1.4984029	-0.1199369
## [398,]	-0.3944068	-0.0997481	2.3752204	-0.1199369
## [399,]	0.8054452	-0.0997481	0.6215855	-0.1199369
## [400,]	0.8054452	-0.9535242	1.4984029	-1.0446413
## [401,]	-0.3944068	0.7540280	-1.1320495	-0.1199369
## [402,]	-0.3944068	-0.9535242	-1.1320495	0.8047675
## [403,]	-0.3944068	1.6078041	2.3752204	-1.0446413
## [404,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [405,]	-0.3944068	0.7540280	2.3752204	2.6541764
## [406,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [407,]	-0.3944068	0.7540280	2.3752204	-1.0446413

##	[408,]	-0.3944068	0.7540280	-0.2552320	0.8047675
##	[409,]	2.0052972	-0.0997481	1.4984029	0.8047675
##	[410,]	0.8054452	1.6078041	-1.1320495	2.6541764
##	[411,]	2.0052972	0.7540280	-0.2552320	-1.0446413
##	[412,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
##	[413,]	2.0052972	-0.0997481	-1.1320495	-1.0446413
##	[414,]	-0.3944068	0.7540280	0.6215855	-1.0446413
##	[415,]	-0.3944068	0.7540280	0.6215855	-0.1199369
##	[416,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
##	[417,]	-1.5942588	1.6078041	-1.1320495	-1.0446413
##	[418,]	2.0052972	-1.8073003	-0.2552320	-1.0446413
##	[419,]	-2.7941108	0.7540280	1.4984029	-0.1199369
##	[420,]	-0.3944068	1.6078041	-0.2552320	2.6541764
##	[421,]	0.8054452	-1.8073003	-1.1320495	-1.0446413
##	[422,]	-1.5942588	-0.9535242	0.6215855	-0.1199369
##	[423,]	2.0052972	0.7540280	-1.1320495	-1.0446413
##	[424,]	-1.5942588	-0.0997481	-0.2552320	-1.0446413
##	[425,]	2.0052972	1.6078041	0.6215855	0.8047675
##	[426,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
##	[427,]	-1.5942588	-1.8073003	-1.1320495	-1.0446413
##	[428,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
##	[429,]	-0.3944068	1.6078041	0.6215855	-0.1199369
##	[430,]	0.8054452	-0.9535242	-1.1320495	-0.1199369
##	[431,]	2.0052972	-0.0997481	0.6215855	0.8047675
##	[432,]	-0.3944068	0.7540280	-1.1320495	0.8047675
##	[433,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
##	[434,]	-0.3944068	0.7540280	1.4984029	1.7294720
##	[435,]	0.8054452	0.7540280	-1.1320495	-0.1199369
##	[436,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
##	[437,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
##	[438,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
##	[439,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
##	[440,]	2.0052972	1.6078041	-0.2552320	-0.1199369
##	[441,]	-0.3944068	0.7540280	-1.1320495	-0.1199369
##	[442,]	-2.7941108	-0.0997481	-0.2552320	-1.0446413
##	[443,]	-0.3944068	0.7540280	-0.2552320	1.7294720
##	[444,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
##	[445,]	0.8054452	-0.0997481	-0.2552320	1.7294720
##	[446,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
##	[447,]	-0.3944068	0.7540280	-1.1320495	-0.1199369
##	[448,]	-1.5942588	-1.8073003	0.6215855	0.8047675
##	[449,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
##	[450,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
##	[451,]	0.8054452	0.7540280	0.6215855	-1.0446413
##	[452,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
##	[453,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
##	[454,]	0.8054452	-0.9535242	-0.2552320	-1.0446413
##	[455,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
##	[456,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
##	[457,]	2.0052972	-0.0997481	-1.1320495	-1.0446413

## [458,]	0.8054452	0.7540280	-0.2552320	-1.0446413
## [459,]	0.8054452	1.6078041	2.3752204	2.6541764
## [460,]	-1.5942588	-0.9535242	-0.2552320	0.8047675
## [461,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [462,]	-0.3944068	-0.9535242	1.4984029	0.8047675
## [463,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [464,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [465,]	0.8054452	0.7540280	0.6215855	0.8047675
## [466,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [467,]	-0.3944068	-0.0997481	-1.1320495	0.8047675
## [468,]	-1.5942588	0.7540280	0.6215855	-0.1199369
## [469,]	-0.3944068	-0.0997481	-0.2552320	1.7294720
## [470,]	2.0052972	1.6078041	-1.1320495	-1.0446413
## [471,]	-0.3944068	0.7540280	0.6215855	-1.0446413
## [472,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [473,]	-0.3944068	-0.9535242	-0.2552320	1.7294720
## [474,]	-1.5942588	-1.8073003	-1.1320495	-1.0446413
## [475,]	-0.3944068	1.6078041	-1.1320495	-1.0446413
## [476,]	-0.3944068	-0.0997481	-0.2552320	2.6541764
## [477,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [478,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [479,]	0.8054452	1.6078041	-0.2552320	0.8047675
## [480,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [481,]	0.8054452	1.6078041	0.6215855	2.6541764
## [482,]	0.8054452	0.7540280	1.4984029	-1.0446413
## [483,]	0.8054452	-0.9535242	-1.1320495	0.8047675
## [484,]	0.8054452	-0.0997481	-0.2552320	-1.0446413
## [485,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [486,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [487,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [488,]	2.0052972	1.6078041	-0.2552320	-1.0446413
## [489,]	-0.3944068	-0.9535242	1.4984029	0.8047675
## [490,]	2.0052972	-0.9535242	-0.2552320	-0.1199369
## [491,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [492,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [493,]	2.0052972	-0.0997481	0.6215855	-1.0446413
## [494,]	-0.3944068	0.7540280	-1.1320495	-0.1199369
## [495,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [496,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [497,]	-1.5942588	-0.0997481	-0.2552320	1.7294720
## [498,]	0.8054452	-0.0997481	0.6215855	0.8047675
## [499,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [500,]	0.8054452	-0.9535242	1.4984029	-0.1199369
## [501,]	-0.3944068	-0.0997481	2.3752204	-0.1199369
## [502,]	-0.3944068	0.7540280	2.3752204	0.8047675
## [503,]	0.8054452	0.7540280	0.6215855	-0.1199369
## [504,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [505,]	-0.3944068	1.6078041	-1.1320495	-1.0446413
## [506,]	0.8054452	-0.0997481	1.4984029	-0.1199369
## [507,]	0.8054452	-0.9535242	-1.1320495	-1.0446413

## [508,]	0.8054452	-0.0997481	1.4984029	0.8047675
## [509,]	-0.3944068	-1.8073003	0.6215855	2.6541764
## [510,]	2.0052972	0.7540280	2.3752204	-0.1199369
## [511,]	-0.3944068	1.6078041	0.6215855	0.8047675
## [512,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [513,]	-2.7941108	-0.9535242	1.4984029	-1.0446413
## [514,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [515,]	-0.3944068	-1.8073003	2.3752204	2.6541764
## [516,]	0.8054452	0.7540280	0.6215855	0.8047675
## [517,]	2.0052972	1.6078041	0.6215855	-1.0446413
## [518,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [519,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [520,]	0.8054452	0.7540280	0.6215855	-1.0446413
## [521,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [522,]	-0.3944068	1.6078041	2.3752204	-1.0446413
## [523,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [524,]	-0.3944068	1.6078041	-0.2552320	-1.0446413
## [525,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [526,]	0.8054452	-0.0997481	0.6215855	0.8047675
## [527,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [528,]	2.0052972	-0.0997481	-1.1320495	0.8047675
## [529,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [530,]	-1.5942588	-1.8073003	-0.2552320	-0.1199369
## [531,]	-0.3944068	-0.0997481	2.3752204	-0.1199369
## [532,]	0.8054452	-0.9535242	2.3752204	1.7294720
## [533,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [534,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [535,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
## [536,]	-2.7941108	-0.0997481	0.6215855	1.7294720
## [537,]	2.0052972	-0.9535242	-1.1320495	-1.0446413
## [538,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [539,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [540,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [541,]	-0.3944068	-0.0997481	2.3752204	-1.0446413
## [542,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [543,]	-0.3944068	1.6078041	-0.2552320	-1.0446413
## [544,]	0.8054452	0.7540280	-1.1320495	-1.0446413
## [545,]	0.8054452	-0.9535242	0.6215855	-1.0446413
## [546,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [547,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [548,]	0.8054452	-1.8073003	1.4984029	-0.1199369
## [549,]	-0.3944068	-1.8073003	0.6215855	0.8047675
## [550,]	0.8054452	1.6078041	-1.1320495	-0.1199369
## [551,]	-0.3944068	-0.9535242	2.3752204	1.7294720
## [552,]	0.8054452	-0.0997481	0.6215855	0.8047675
## [553,]	-0.3944068	-0.9535242	0.6215855	-1.0446413
## [554,]	-0.3944068	0.7540280	1.4984029	-0.1199369
## [555,]	-0.3944068	-0.0997481	1.4984029	-0.1199369
## [556,]	2.0052972	1.6078041	0.6215855	-1.0446413
## [557,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413

## [558,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [559,]	-1.5942588	-0.0997481	-1.1320495	-0.1199369
## [560,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [561,]	2.0052972	0.7540280	0.6215855	0.8047675
## [562,]	-0.3944068	0.7540280	0.6215855	0.8047675
## [563,]	2.0052972	1.6078041	0.6215855	-0.1199369
## [564,]	0.8054452	0.7540280	-1.1320495	0.8047675
## [565,]	2.0052972	1.6078041	-1.1320495	-1.0446413
## [566,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [567,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [568,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [569,]	0.8054452	1.6078041	-0.2552320	-1.0446413
## [570,]	-0.3944068	0.7540280	1.4984029	-0.1199369
## [571,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [572,]	2.0052972	0.7540280	-0.2552320	-1.0446413
## [573,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [574,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [575,]	2.0052972	1.6078041	0.6215855	-1.0446413
## [576,]	0.8054452	-0.0997481	1.4984029	0.8047675
## [577,]	-0.3944068	-0.0997481	-0.2552320	1.7294720
## [578,]	0.8054452	0.7540280	-0.2552320	-1.0446413
## [579,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
## [580,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [581,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
## [582,]	0.8054452	-0.9535242	-0.2552320	-1.0446413
## [583,]	-0.3944068	0.7540280	0.6215855	-1.0446413
## [584,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [585,]	-0.3944068	0.7540280	0.6215855	0.8047675
## [586,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [587,]	2.0052972	1.6078041	0.6215855	1.7294720
## [588,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [589,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [590,]	0.8054452	-1.8073003	-1.1320495	-1.0446413
## [591,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
## [592,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [593,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
## [594,]	-0.3944068	-0.9535242	0.6215855	-1.0446413
## [595,]	-0.3944068	-0.9535242	0.6215855	-1.0446413
## [596,]	2.0052972	-1.8073003	-1.1320495	-1.0446413
## [597,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [598,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [599,]	-0.3944068	0.7540280	-0.2552320	0.8047675
## [600,]	0.8054452	1.6078041	0.6215855	1.7294720
## [601,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [602,]	-0.3944068	-1.8073003	1.4984029	0.8047675
## [603,]	0.8054452	0.7540280	-0.2552320	0.8047675
## [604,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [605,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [606,]	-0.3944068	-1.8073003	2.3752204	2.6541764
## [607,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413

## [608,]	-0.3944068	-0.0997481	-1.1320495	0.8047675
## [609,]	0.8054452	-0.9535242	1.4984029	-0.1199369
## [610,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [611,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [612,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [613,]	-0.3944068	1.6078041	-1.1320495	-1.0446413
## [614,]	-1.5942588	-0.0997481	-0.2552320	-0.1199369
## [615,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [616,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
## [617,]	-0.3944068	0.7540280	-1.1320495	2.6541764
## [618,]	-0.3944068	-0.0997481	-0.2552320	1.7294720
## [619,]	2.0052972	1.6078041	1.4984029	-0.1199369
## [620,]	-2.7941108	-0.0997481	0.6215855	-1.0446413
## [621,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [622,]	-2.7941108	0.7540280	-1.1320495	-0.1199369
## [623,]	-0.3944068	1.6078041	1.4984029	1.7294720
## [624,]	0.8054452	-0.9535242	0.6215855	0.8047675
## [625,]	-1.5942588	-0.0997481	-1.1320495	-0.1199369
## [626,]	0.8054452	1.6078041	0.6215855	-0.1199369
## [627,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [628,]	2.0052972	0.7540280	1.4984029	0.8047675
## [629,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [630,]	-0.3944068	1.6078041	0.6215855	-0.1199369
## [631,]	2.0052972	0.7540280	-1.1320495	0.8047675
## [632,]	-0.3944068	1.6078041	-0.2552320	-1.0446413
## [633,]	0.8054452	0.7540280	0.6215855	-0.1199369
## [634,]	0.8054452	-0.0997481	2.3752204	0.8047675
## [635,]	-0.3944068	-0.0997481	1.4984029	-0.1199369
## [636,]	-1.5942588	0.7540280	1.4984029	-0.1199369
## [637,]	-0.3944068	-0.0997481	2.3752204	1.7294720
## [638,]	-1.5942588	-0.9535242	0.6215855	-0.1199369
## [639,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [640,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [641,]	0.8054452	1.6078041	-0.2552320	-0.1199369
## [642,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [643,]	-0.3944068	0.7540280	1.4984029	-0.1199369
## [644,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [645,]	2.0052972	-0.0997481	0.6215855	-0.1199369
## [646,]	0.8054452	0.7540280	-0.2552320	-1.0446413
## [647,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [648,]	-0.3944068	-0.0997481	-1.1320495	0.8047675
## [649,]	0.8054452	1.6078041	2.3752204	-0.1199369
## [650,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [651,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [652,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [653,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [654,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [655,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [656,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [657,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369

## [658,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [659,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [660,]	-1.5942588	-0.9535242	-1.1320495	-1.0446413
## [661,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [662,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [663,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [664,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [665,]	-1.5942588	-0.0997481	1.4984029	1.7294720
## [666,]	-0.3944068	-1.8073003	-0.2552320	-1.0446413
## [667,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [668,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [669,]	-0.3944068	-1.8073003	-0.2552320	0.8047675
## [670,]	-0.3944068	0.7540280	-0.2552320	0.8047675
## [671,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [672,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [673,]	-2.7941108	-0.9535242	1.4984029	-0.1199369
## [674,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [675,]	0.8054452	-0.0997481	0.6215855	-1.0446413
## [676,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [677,]	0.8054452	-0.9535242	-0.2552320	-1.0446413
## [678,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [679,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [680,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [681,]	0.8054452	0.7540280	0.6215855	1.7294720
## [682,]	2.0052972	0.7540280	0.6215855	-0.1199369
## [683,]	0.8054452	0.7540280	-0.2552320	0.8047675
## [684,]	-0.3944068	-0.9535242	2.3752204	2.6541764
## [685,]	2.0052972	1.6078041	-1.1320495	-1.0446413
## [686,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
## [687,]	0.8054452	0.7540280	1.4984029	1.7294720
## [688,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [689,]	0.8054452	0.7540280	0.6215855	-1.0446413
## [690,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [691,]	0.8054452	0.7540280	-1.1320495	-0.1199369
## [692,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [693,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [694,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [695,]	-0.3944068	-0.0997481	0.6215855	1.7294720
## [696,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [697,]	-0.3944068	-0.0997481	2.3752204	0.8047675
## [698,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [699,]	2.0052972	1.6078041	1.4984029	-1.0446413
## [700,]	-0.3944068	0.7540280	0.6215855	-1.0446413
## [701,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [702,]	2.0052972	1.6078041	1.4984029	0.8047675
## [703,]	-1.5942588	-1.8073003	0.6215855	0.8047675
## [704,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [705,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [706,]	0.8054452	1.6078041	-1.1320495	-0.1199369
## [707,]	-0.3944068	0.7540280	-0.2552320	0.8047675

## [708,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [709,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [710,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [711,]	0.8054452	0.7540280	0.6215855	0.8047675
## [712,]	-0.3944068	-0.0997481	0.6215855	1.7294720
## [713,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [714,]	-0.3944068	-0.0997481	1.4984029	1.7294720
## [715,]	-0.3944068	1.6078041	0.6215855	0.8047675
## [716,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [717,]	-0.3944068	-0.9535242	1.4984029	2.6541764
## [718,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
## [719,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [720,]	-0.3944068	-0.0997481	-1.1320495	0.8047675
## [721,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [722,]	-0.3944068	-0.0997481	2.3752204	-1.0446413
## [723,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [724,]	-0.3944068	0.7540280	-0.2552320	0.8047675
## [725,]	-0.3944068	1.6078041	0.6215855	0.8047675
## [726,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [727,]	-0.3944068	-0.9535242	1.4984029	-0.1199369
## [728,]	-1.5942588	-0.9535242	-1.1320495	0.8047675
## [729,]	0.8054452	1.6078041	-1.1320495	0.8047675
## [730,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [731,]	0.8054452	-1.8073003	-0.2552320	-1.0446413
## [732,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [733,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [734,]	-0.3944068	-0.0997481	2.3752204	2.6541764
## [735,]	-0.3944068	-0.0997481	1.4984029	2.6541764
## [736,]	-2.7941108	-1.8073003	0.6215855	-0.1199369
## [737,]	-0.3944068	1.6078041	-0.2552320	1.7294720
## [738,]	-2.7941108	-0.0997481	-0.2552320	-1.0446413
## [739,]	2.0052972	0.7540280	-1.1320495	-1.0446413
## [740,]	2.0052972	-0.0997481	0.6215855	1.7294720
## [741,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [742,]	-0.3944068	-0.0997481	2.3752204	-1.0446413
## [743,]	-0.3944068	-1.8073003	0.6215855	1.7294720
## [744,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [745,]	0.8054452	-0.9535242	0.6215855	-0.1199369
## [746,]	-0.3944068	-0.0997481	1.4984029	0.8047675
## [747,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [748,]	-0.3944068	0.7540280	0.6215855	-1.0446413
## [749,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [750,]	-0.3944068	-0.9535242	1.4984029	1.7294720
## [751,]	-0.3944068	1.6078041	2.3752204	-0.1199369
## [752,]	-0.3944068	-0.9535242	1.4984029	-1.0446413
## [753,]	0.8054452	1.6078041	-0.2552320	-1.0446413
## [754,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [755,]	0.8054452	-0.9535242	-1.1320495	0.8047675
## [756,]	-0.3944068	-0.9535242	-0.2552320	0.8047675
## [757,]	0.8054452	-0.0997481	0.6215855	1.7294720

## [758,]	-0.3944068	1.6078041	0.6215855	0.8047675
## [759,]	2.0052972	0.7540280	-1.1320495	-1.0446413
## [760,]	-0.3944068	1.6078041	1.4984029	0.8047675
## [761,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [762,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [763,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [764,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [765,]	-1.5942588	-0.0997481	-1.1320495	-0.1199369
## [766,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [767,]	2.0052972	1.6078041	2.3752204	2.6541764
## [768,]	-2.7941108	-0.9535242	0.6215855	1.7294720
## [769,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [770,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [771,]	-2.7941108	-1.8073003	-1.1320495	-1.0446413
## [772,]	-1.5942588	-0.9535242	1.4984029	1.7294720
## [773,]	0.8054452	-0.0997481	-1.1320495	-0.1199369
## [774,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [775,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [776,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [777,]	-0.3944068	1.6078041	2.3752204	-1.0446413
## [778,]	2.0052972	-0.0997481	-1.1320495	-0.1199369
## [779,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [780,]	-0.3944068	-0.0997481	0.6215855	1.7294720
## [781,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [782,]	-1.5942588	0.7540280	-1.1320495	-0.1199369
## [783,]	-0.3944068	-0.9535242	0.6215855	1.7294720
## [784,]	-0.3944068	-0.9535242	2.3752204	-0.1199369
## [785,]	-0.3944068	0.7540280	0.6215855	-1.0446413
## [786,]	0.8054452	-0.0997481	0.6215855	0.8047675
## [787,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [788,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [789,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [790,]	2.0052972	0.7540280	0.6215855	0.8047675
## [791,]	2.0052972	-0.0997481	-0.2552320	-0.1199369
## [792,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [793,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [794,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [795,]	2.0052972	-0.0997481	-1.1320495	-1.0446413
## [796,]	-2.7941108	1.6078041	-1.1320495	2.6541764
## [797,]	2.0052972	-0.0997481	-0.2552320	-0.1199369
## [798,]	-2.7941108	1.6078041	-1.1320495	-0.1199369
## [799,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [800,]	-0.3944068	-1.8073003	-0.2552320	0.8047675
## [801,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [802,]	2.0052972	1.6078041	-1.1320495	-1.0446413
## [803,]	2.0052972	1.6078041	0.6215855	-0.1199369
## [804,]	2.0052972	-0.9535242	-1.1320495	-1.0446413
## [805,]	-2.7941108	0.7540280	-1.1320495	-1.0446413
## [806,]	0.8054452	0.7540280	0.6215855	-1.0446413
## [807,]	-2.7941108	-1.8073003	-1.1320495	-1.0446413

## [808,]	-0.3944068	-1.8073003	0.6215855	0.8047675
## [809,]	0.8054452	-0.0997481	-1.1320495	-0.1199369
## [810,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [811,]	-0.3944068	-0.9535242	0.6215855	1.7294720
## [812,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [813,]	0.8054452	-1.8073003	-1.1320495	-1.0446413
## [814,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [815,]	0.8054452	0.7540280	0.6215855	-1.0446413
## [816,]	2.0052972	-0.9535242	0.6215855	1.7294720
## [817,]	0.8054452	-0.0997481	0.6215855	-1.0446413
## [818,]	0.8054452	-1.8073003	-1.1320495	-1.0446413
## [819,]	0.8054452	-0.0997481	0.6215855	-1.0446413
## [820,]	2.0052972	-0.0997481	-1.1320495	-0.1199369
## [821,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [822,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [823,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [824,]	-1.5942588	-0.0997481	-0.2552320	-0.1199369
## [825,]	-0.3944068	-1.8073003	-1.1320495	-0.1199369
## [826,]	-0.3944068	-1.8073003	0.6215855	-1.0446413
## [827,]	-0.3944068	-0.0997481	0.6215855	-1.0446413
## [828,]	-0.3944068	-0.0997481	1.4984029	0.8047675
## [829,]	-0.3944068	0.7540280	-1.1320495	-0.1199369
## [830,]	-0.3944068	-1.8073003	-0.2552320	-0.1199369
## [831,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [832,]	-0.3944068	0.7540280	-0.2552320	1.7294720
## [833,]	-0.3944068	-0.0997481	1.4984029	2.6541764
## [834,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [835,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [836,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [837,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [838,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [839,]	2.0052972	0.7540280	-1.1320495	-1.0446413
## [840,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [841,]	0.8054452	-0.9535242	0.6215855	0.8047675
## [842,]	2.0052972	0.7540280	0.6215855	0.8047675
## [843,]	2.0052972	0.7540280	-0.2552320	-1.0446413
## [844,]	0.8054452	0.7540280	-0.2552320	0.8047675
## [845,]	0.8054452	-0.9535242	2.3752204	1.7294720
## [846,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [847,]	-0.3944068	1.6078041	-0.2552320	-0.1199369
## [848,]	-1.5942588	-0.0997481	1.4984029	-0.1199369
## [849,]	-1.5942588	-0.9535242	-1.1320495	-1.0446413
## [850,]	-1.5942588	-1.8073003	1.4984029	1.7294720
## [851,]	-0.3944068	0.7540280	-1.1320495	-0.1199369
## [852,]	2.0052972	-0.0997481	-1.1320495	-1.0446413
## [853,]	0.8054452	-0.9535242	-1.1320495	-0.1199369
## [854,]	-0.3944068	0.7540280	1.4984029	-0.1199369
## [855,]	-1.5942588	0.7540280	-0.2552320	-1.0446413
## [856,]	0.8054452	1.6078041	0.6215855	0.8047675
## [857,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413

## [858,]	0.8054452	0.7540280	-0.2552320	0.8047675
## [859,]	-2.7941108	-0.0997481	0.6215855	-0.1199369
## [860,]	-0.3944068	0.7540280	1.4984029	-0.1199369
## [861,]	-0.3944068	0.7540280	0.6215855	0.8047675
## [862,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [863,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [864,]	2.0052972	-0.0997481	-0.2552320	-0.1199369
## [865,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
## [866,]	-1.5942588	0.7540280	0.6215855	-0.1199369
## [867,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [868,]	-0.3944068	0.7540280	-0.2552320	1.7294720
## [869,]	0.8054452	-0.0997481	1.4984029	0.8047675
## [870,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [871,]	0.8054452	0.7540280	-0.2552320	-1.0446413
## [872,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [873,]	-0.3944068	-0.9535242	0.6215855	-1.0446413
## [874,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [875,]	-0.3944068	1.6078041	-1.1320495	-1.0446413
## [876,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [877,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [878,]	-0.3944068	-1.8073003	0.6215855	2.6541764
## [879,]	-1.5942588	-0.9535242	-0.2552320	-0.1199369
## [880,]	2.0052972	1.6078041	-1.1320495	1.7294720
## [881,]	-0.3944068	1.6078041	-1.1320495	-0.1199369
## [882,]	-0.3944068	-1.8073003	-1.1320495	0.8047675
## [883,]	0.8054452	0.7540280	-1.1320495	-1.0446413
## [884,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [885,]	-0.3944068	0.7540280	-0.2552320	-1.0446413
## [886,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [887,]	2.0052972	-0.0997481	-0.2552320	-1.0446413
## [888,]	-0.3944068	-0.0997481	-0.2552320	1.7294720
## [889,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [890,]	-0.3944068	-0.0997481	0.6215855	1.7294720
## [891,]	-0.3944068	1.6078041	-1.1320495	-0.1199369
## [892,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [893,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [894,]	-0.3944068	-0.9535242	0.6215855	1.7294720
## [895,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [896,]	0.8054452	0.7540280	-0.2552320	0.8047675
## [897,]	-0.3944068	-0.9535242	0.6215855	1.7294720
## [898,]	-0.3944068	-0.9535242	-0.2552320	0.8047675
## [899,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [900,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [901,]	-1.5942588	-0.9535242	-1.1320495	-0.1199369
## [902,]	-0.3944068	-1.8073003	-0.2552320	-0.1199369
## [903,]	-0.3944068	-1.8073003	-0.2552320	-0.1199369
## [904,]	2.0052972	-0.9535242	1.4984029	0.8047675
## [905,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [906,]	-0.3944068	0.7540280	0.6215855	0.8047675
## [907,]	-0.3944068	1.6078041	0.6215855	-1.0446413

## [908,]	0.8054452	0.7540280	0.6215855	-0.1199369
## [909,]	-1.5942588	-0.0997481	-0.2552320	0.8047675
## [910,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [911,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [912,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [913,]	0.8054452	0.7540280	-0.2552320	-1.0446413
## [914,]	-0.3944068	0.7540280	1.4984029	-0.1199369
## [915,]	0.8054452	-0.9535242	0.6215855	-1.0446413
## [916,]	0.8054452	1.6078041	-0.2552320	0.8047675
## [917,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [918,]	0.8054452	-0.9535242	-0.2552320	-0.1199369
## [919,]	-0.3944068	-0.9535242	-0.2552320	-1.0446413
## [920,]	-2.7941108	-0.0997481	-0.2552320	-1.0446413
## [921,]	0.8054452	-0.0997481	0.6215855	0.8047675
## [922,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [923,]	-0.3944068	1.6078041	-1.1320495	-1.0446413
## [924,]	0.8054452	-0.9535242	-0.2552320	-1.0446413
## [925,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [926,]	-0.3944068	0.7540280	0.6215855	0.8047675
## [927,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [928,]	-0.3944068	1.6078041	-1.1320495	-1.0446413
## [929,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [930,]	-1.5942588	-0.0997481	2.3752204	-1.0446413
## [931,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [932,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [933,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [934,]	-0.3944068	-0.9535242	-0.2552320	0.8047675
## [935,]	-0.3944068	-0.0997481	-0.2552320	-0.1199369
## [936,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [937,]	-0.3944068	-0.9535242	0.6215855	-0.1199369
## [938,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [939,]	-0.3944068	-0.9535242	2.3752204	-1.0446413
## [940,]	-0.3944068	0.7540280	-1.1320495	1.7294720
## [941,]	-0.3944068	-0.9535242	-1.1320495	-1.0446413
## [942,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [943,]	-1.5942588	1.6078041	0.6215855	-0.1199369
## [944,]	-0.3944068	-0.0997481	-0.2552320	-1.0446413
## [945,]	0.8054452	-0.0997481	0.6215855	-0.1199369
## [946,]	-1.5942588	1.6078041	-0.2552320	0.8047675
## [947,]	2.0052972	-0.9535242	-1.1320495	-0.1199369
## [948,]	-0.3944068	-0.0997481	-1.1320495	-1.0446413
## [949,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [950,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
## [951,]	-0.3944068	-0.9535242	0.6215855	0.8047675
## [952,]	-0.3944068	0.7540280	-1.1320495	-1.0446413
## [953,]	-1.5942588	-0.0997481	0.6215855	0.8047675
## [954,]	-0.3944068	-0.0997481	-1.1320495	0.8047675
## [955,]	-0.3944068	1.6078041	0.6215855	-0.1199369
## [956,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [957,]	0.8054452	-0.0997481	-1.1320495	1.7294720

## [958,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [959,]	2.0052972	1.6078041	0.6215855	-1.0446413
## [960,]	-0.3944068	-0.0997481	-0.2552320	0.8047675
## [961,]	-0.3944068	0.7540280	1.4984029	-1.0446413
## [962,]	-0.3944068	0.7540280	1.4984029	-1.0446413
## [963,]	-1.5942588	-0.0997481	1.4984029	1.7294720
## [964,]	0.8054452	0.7540280	0.6215855	0.8047675
## [965,]	0.8054452	-0.0997481	-0.2552320	0.8047675
## [966,]	2.0052972	1.6078041	0.6215855	0.8047675
## [967,]	2.0052972	-1.8073003	-1.1320495	-1.0446413
## [968,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [969,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [970,]	-0.3944068	-0.9535242	-1.1320495	-0.1199369
## [971,]	-0.3944068	1.6078041	-1.1320495	1.7294720
## [972,]	0.8054452	-0.9535242	1.4984029	0.8047675
## [973,]	-0.3944068	-0.0997481	0.6215855	0.8047675
## [974,]	-0.3944068	-0.9535242	2.3752204	2.6541764
## [975,]	-0.3944068	-1.8073003	-0.2552320	-0.1199369
## [976,]	-0.3944068	1.6078041	2.3752204	2.6541764
## [977,]	-0.3944068	0.7540280	-0.2552320	0.8047675
## [978,]	0.8054452	0.7540280	-0.2552320	-0.1199369
## [979,]	-1.5942588	-0.9535242	-1.1320495	-0.1199369
## [980,]	-0.3944068	0.7540280	-0.2552320	-0.1199369
## [981,]	-0.3944068	-0.9535242	-0.2552320	-0.1199369
## [982,]	0.8054452	-1.8073003	-0.2552320	1.7294720
## [983,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [984,]	0.8054452	-0.0997481	-1.1320495	-1.0446413
## [985,]	-1.5942588	-1.8073003	0.6215855	-0.1199369
## [986,]	-1.5942588	-1.8073003	0.6215855	-0.1199369
## [987,]	-0.3944068	-0.9535242	2.3752204	0.8047675
## [988,]	-0.3944068	-0.9535242	-0.2552320	0.8047675
## [989,]	-1.5942588	-0.0997481	-0.2552320	-0.1199369
## [990,]	2.0052972	-0.0997481	-0.2552320	-0.1199369
## [991,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [992,]	2.0052972	-0.9535242	-1.1320495	-1.0446413
## [993,]	0.8054452	0.7540280	-1.1320495	1.7294720
## [994,]	-0.3944068	-0.0997481	-1.1320495	-0.1199369
## [995,]	0.8054452	-0.0997481	-0.2552320	-0.1199369
## [996,]	0.8054452	-0.9535242	-1.1320495	-1.0446413
## [997,]	-0.3944068	-1.8073003	-1.1320495	-1.0446413
## [998,]	0.8054452	-0.0997481	0.6215855	0.8047675
## [999,]	0.8054452	0.7540280	0.6215855	-1.0446413
## [1000,]	2.0052972	1.6078041	0.6215855	1.7294720
## [1001,]	-0.3944068	-0.0997481	0.6215855	-0.1199369
## [1002,]	2.0052972	1.6078041	-1.1320495	-0.1199369
## [1003,]	2.0052972	-0.0997481	-1.1320495	0.8047675
## [1004,]	-0.3944068	0.7540280	0.6215855	-0.1199369
## [1005,]	-0.3944068	0.7540280	-1.1320495	-0.1199369
## [1006,]	-1.5942588	1.6078041	-0.2552320	-0.1199369
## [1007,]	0.8054452	1.6078041	-1.1320495	0.8047675

## [1008,]		-0.3944068	-1.8073003	-1.1320495	-0.1199369	
## [1009,]		-0.3944068	-0.0997481	0.6215855	-1.0446413	
## [1010,]		2.0052972	0.7540280	0.6215855	-0.1199369	
##	Classical.music	Musical	Pop	Rock	Metal.or.Hardrock	
##	[1,]	-0.76420873	-1.3991123	1.3169072	1.0478732	-0.9910267
##	[2,]	-1.56488384	-0.6052340	-0.4059895	1.0478732	1.1960170
##	[3,]	0.83714151	1.7764010	-0.4059895	1.0478732	0.4670024
##	[4,]	-1.56488384	-1.3991123	-1.2674379	-1.4881139	-0.9910267
##	[5,]	0.83714151	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[6,]	0.03646639	0.1886444	-1.2674379	1.0478732	1.9250315
##	[7,]	-0.76420873	-0.6052340	1.3169072	-0.6427849	-0.9910267
##	[8,]	-0.76420873	-0.6052340	0.4554588	1.0478732	-0.9910267
##	[9,]	-0.76420873	0.9825227	-0.4059895	1.0478732	1.9250315
##	[10,]	-0.76420873	1.7764010	-0.4059895	1.0478732	-0.2620122
##	[11,]	-0.76420873	0.1886444	0.4554588	-0.6427849	-0.2620122
##	[12,]	0.83714151	-1.3991123	-1.2674379	1.0478732	-0.9910267
##	[13,]	0.83714151	0.1886444	-0.4059895	1.0478732	1.1960170
##	[14,]	-1.56488384	1.7764010	1.3169072	-1.4881139	-0.9910267
##	[15,]	-0.76420873	0.1886444	0.4554588	1.0478732	-0.2620122
##	[16,]	0.83714151	0.1886444	-0.4059895	1.0478732	1.9250315
##	[17,]	-1.56488384	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[18,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[19,]	0.83714151	1.7764010	1.3169072	0.2025442	1.1960170
##	[20,]	0.83714151	-0.6052340	-1.2674379	0.2025442	1.9250315
##	[21,]	0.83714151	0.1886444	-1.2674379	1.0478732	1.9250315
##	[22,]	-0.76420873	-0.6052340	-1.2674379	1.0478732	1.9250315
##	[23,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[24,]	-0.76420873	0.9825227	0.4554588	1.0478732	-0.2620122
##	[25,]	0.83714151	0.1886444	-0.4059895	1.0478732	1.9250315
##	[26,]	-0.76420873	0.1886444	1.3169072	-2.3334430	-0.9910267
##	[27,]	1.63781663	0.1886444	0.4554588	0.2025442	0.4670024
##	[28,]	0.03646639	-0.6052340	-1.2674379	0.2025442	-0.2620122
##	[29,]	-1.56488384	-1.3991123	-0.4059895	0.2025442	-0.9910267
##	[30,]	0.03646639	0.1886444	-0.4059895	0.2025442	-0.9910267
##	[31,]	0.03646639	0.1886444	0.4554588	0.2025442	-0.2620122
##	[32,]	-0.76420873	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[33,]	-0.76420873	0.1886444	-0.4059895	0.2025442	0.4670024
##	[34,]	0.83714151	1.7764010	0.4554588	-0.6427849	-0.9910267
##	[35,]	0.03646639	0.9825227	0.4554588	1.0478732	0.4670024
##	[36,]	0.83714151	1.7764010	1.3169072	-0.6427849	-0.9910267
##	[37,]	0.03646639	0.9825227	0.4554588	0.2025442	-0.9910267
##	[38,]	1.63781663	-1.3991123	-1.2674379	-0.6427849	1.9250315
##	[39,]	1.63781663	-0.6052340	1.3169072	0.2025442	-0.9910267
##	[40,]	-0.76420873	0.1886444	1.3169072	1.0478732	1.1960170
##	[41,]	-1.56488384	-1.3991123	1.3169072	-2.3334430	-0.9910267
##	[42,]	1.63781663	-1.3991123	-2.1288863	0.2025442	1.9250315
##	[43,]	0.03646639	0.9825227	1.3169072	1.0478732	1.1960170
##	[44,]	-0.76420873	-0.6052340	1.3169072	0.2025442	-0.9910267
##	[45,]	0.03646639	0.1886444	0.4554588	0.2025442	-0.9910267
##	[46,]	0.83714151	0.1886444	1.3169072	0.2025442	-0.9910267

##	[47,]	-1.56488384	1.7764010	1.3169072	1.0478732	0.4670024
##	[48,]	-0.76420873	0.1886444	0.4554588	0.2025442	-0.2620122
##	[49,]	-1.56488384	0.9825227	-0.4059895	-1.4881139	-0.9910267
##	[50,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	0.4670024
##	[51,]	1.63781663	1.7764010	1.3169072	1.0478732	-0.2620122
##	[52,]	0.83714151	0.1886444	1.3169072	0.2025442	0.4670024
##	[53,]	1.63781663	1.7764010	1.3169072	1.0478732	1.1960170
##	[54,]	0.83714151	1.7764010	0.4554588	-0.6427849	-0.2620122
##	[55,]	1.63781663	1.7764010	1.3169072	1.0478732	1.1960170
##	[56,]	0.83714151	0.1886444	0.4554588	-0.6427849	0.4670024
##	[57,]	0.83714151	0.1886444	0.4554588	1.0478732	-0.9910267
##	[58,]	0.03646639	-0.6052340	-1.2674379	1.0478732	-0.2620122
##	[59,]	0.03646639	-0.6052340	1.3169072	-2.3334430	-0.9910267
##	[60,]	0.03646639	-1.3991123	-0.4059895	0.2025442	0.4670024
##	[61,]	0.83714151	0.9825227	0.4554588	0.2025442	-0.9910267
##	[62,]	0.83714151	0.1886444	0.4554588	0.2025442	-0.9910267
##	[63,]	0.83714151	0.9825227	1.3169072	0.2025442	1.9250315
##	[64,]	-0.76420873	-1.3991123	-1.2674379	-0.6427849	-0.9910267
##	[65,]	-1.56488384	0.9825227	0.4554588	1.0478732	-0.9910267
##	[66,]	-0.76420873	-1.3991123	-0.4059895	-0.6427849	0.4670024
##	[67,]	-0.76420873	0.9825227	1.3169072	-0.6427849	1.1960170
##	[68,]	-0.76420873	0.9825227	1.3169072	-2.3334430	-0.9910267
##	[69,]	-0.76420873	0.9825227	-0.4059895	1.0478732	1.9250315
##	[70,]	-1.56488384	0.9825227	1.3169072	0.2025442	-0.9910267
##	[71,]	-0.76420873	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[72,]	0.83714151	-1.3991123	0.4554588	-2.3334430	-0.9910267
##	[73,]	-0.76420873	1.7764010	1.3169072	1.0478732	-0.2620122
##	[74,]	-0.76420873	-1.3991123	1.3169072	-1.4881139	-0.9910267
##	[75,]	1.63781663	0.1886444	-1.2674379	-2.3334430	-0.9910267
##	[76,]	0.03646639	-1.3991123	-2.1288863	1.0478732	1.1960170
##	[77,]	-0.76420873	-0.6052340	-1.2674379	-1.4881139	-0.9910267
##	[78,]	-0.76420873	-0.6052340	1.3169072	0.2025442	-0.2620122
##	[79,]	-1.56488384	1.7764010	1.3169072	-0.6427849	-0.9910267
##	[80,]	0.03646639	0.9825227	1.3169072	1.0478732	-0.2620122
##	[81,]	-0.76420873	0.1886444	0.4554588	1.0478732	-0.2620122
##	[82,]	0.03646639	0.1886444	1.3169072	0.2025442	-0.2620122
##	[83,]	0.03646639	-0.6052340	-2.1288863	1.0478732	1.9250315
##	[84,]	0.83714151	0.9825227	1.3169072	1.0478732	0.4670024
##	[85,]	1.63781663	1.7764010	-2.1288863	1.0478732	1.9250315
##	[86,]	1.63781663	0.1886444	-0.4059895	0.2025442	1.1960170
##	[87,]	0.03646639	-0.6052340	0.4554588	1.0478732	0.4670024
##	[88,]	-0.76420873	0.9825227	0.4554588	1.0478732	-0.2620122
##	[89,]	1.63781663	-0.6052340	1.3169072	1.0478732	-0.9910267
##	[90,]	0.83714151	0.1886444	-0.4059895	1.0478732	0.4670024
##	[91,]	0.03646639	0.9825227	-0.4059895	0.2025442	-0.9910267
##	[92,]	-0.76420873	1.7764010	-0.4059895	1.0478732	1.9250315
##	[93,]	0.83714151	0.9825227	-1.2674379	-0.6427849	-0.9910267
##	[94,]	0.83714151	0.9825227	0.4554588	-0.6427849	0.4670024
##	[95,]	-1.56488384	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[96,]	0.83714151	0.1886444	-0.4059895	-0.6427849	-0.9910267

##	[97,]	-1.56488384	-1.3991123	-1.2674379	0.2025442	1.9250315
##	[98,]	-1.56488384	-1.3991123	-1.2674379	-2.3334430	-0.9910267
##	[99,]	-1.56488384	-1.3991123	-0.4059895	1.0478732	-0.2620122
##	[100,]	-0.76420873	-0.6052340	0.4554588	-1.4881139	-0.9910267
##	[101,]	0.83714151	1.7764010	0.4554588	1.0478732	0.4670024
##	[102,]	0.03646639	-1.3991123	-1.2674379	0.2025442	1.9250315
##	[103,]	1.63781663	0.9825227	-2.1288863	1.0478732	-0.2620122
##	[104,]	-0.76420873	0.9825227	1.3169072	-2.3334430	-0.9910267
##	[105,]	0.83714151	-0.6052340	-1.2674379	0.2025442	1.1960170
##	[106,]	0.03646639	-0.6052340	-1.2674379	0.2025442	1.9250315
##	[107,]	1.63781663	0.1886444	0.4554588	1.0478732	-0.9910267
##	[108,]	-0.76420873	-0.6052340	-1.2674379	0.2025442	1.1960170
##	[109,]	0.83714151	-1.3991123	-1.2674379	0.2025442	1.1960170
##	[110,]	0.83714151	-0.6052340	-0.4059895	1.0478732	1.9250315
##	[111,]	0.03646639	-1.3991123	0.4554588	0.2025442	-0.9910267
##	[112,]	1.63781663	0.1886444	-0.4059895	0.2025442	-0.2620122
##	[113,]	0.83714151	0.1886444	-0.4059895	-0.6427849	-0.2620122
##	[114,]	-1.56488384	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[115,]	0.03646639	0.9825227	0.4554588	0.2025442	-0.9910267
##	[116,]	1.63781663	0.9825227	1.3169072	1.0478732	-0.2620122
##	[117,]	-0.76420873	-1.3991123	-0.4059895	1.0478732	-0.9910267
##	[118,]	-1.56488384	0.1886444	1.3169072	-0.6427849	-0.2620122
##	[119,]	0.83714151	-1.3991123	-0.4059895	0.2025442	-0.2620122
##	[120,]	0.03646639	-0.6052340	0.4554588	-1.4881139	-0.2620122
##	[121,]	0.83714151	0.9825227	-1.2674379	1.0478732	1.9250315
##	[122,]	-0.76420873	-1.3991123	0.4554588	0.2025442	-0.2620122
##	[123,]	1.63781663	0.1886444	-2.1288863	1.0478732	-0.2620122
##	[124,]	0.03646639	0.9825227	-0.4059895	1.0478732	0.4670024
##	[125,]	1.63781663	1.7764010	-0.4059895	1.0478732	0.4670024
##	[126,]	0.03646639	-0.6052340	-1.2674379	0.2025442	0.4670024
##	[127,]	0.03646639	-1.3991123	0.4554588	0.2025442	-0.9910267
##	[128,]	0.83714151	0.1886444	0.4554588	0.2025442	0.4670024
##	[129,]	1.63781663	1.7764010	1.3169072	1.0478732	1.9250315
##	[130,]	-0.76420873	-0.6052340	0.4554588	1.0478732	-0.2620122
##	[131,]	0.83714151	-0.6052340	-1.2674379	1.0478732	0.4670024
##	[132,]	-0.76420873	-0.6052340	0.4554588	-1.4881139	-0.9910267
##	[133,]	-1.56488384	-1.3991123	0.4554588	0.2025442	-0.9910267
##	[134,]	0.83714151	-0.6052340	-2.1288863	-0.6427849	-0.9910267
##	[135,]	0.03646639	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[136,]	1.63781663	-1.3991123	-0.4059895	1.0478732	1.1960170
##	[137,]	0.03646639	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[138,]	1.63781663	1.7764010	1.3169072	0.2025442	-0.2620122
##	[139,]	0.83714151	1.7764010	-1.2674379	-2.3334430	-0.9910267
##	[140,]	0.03646639	0.1886444	1.3169072	0.2025442	-0.9910267
##	[141,]	-0.76420873	0.1886444	0.4554588	0.2025442	-0.2620122
##	[142,]	0.03646639	-1.3991123	-0.4059895	1.0478732	1.9250315
##	[143,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[144,]	-1.56488384	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[145,]	0.03646639	-0.6052340	0.4554588	1.0478732	-0.9910267
##	[146,]	-0.76420873	-0.6052340	-1.2674379	0.2025442	-0.9910267

##	[147,]	0.83714151	-1.3991123	1.3169072	0.2025442	0.4670024
##	[148,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	1.1960170
##	[149,]	0.03646639	0.1886444	1.3169072	-0.6427849	-0.2620122
##	[150,]	0.03646639	0.9825227	-2.1288863	-1.4881139	-0.2620122
##	[151,]	0.83714151	0.9825227	-0.4059895	1.0478732	1.9250315
##	[152,]	0.03646639	-0.6052340	-1.2674379	0.2025442	1.1960170
##	[153,]	0.03646639	0.1886444	0.4554588	0.2025442	-0.2620122
##	[154,]	0.03646639	-0.6052340	0.4554588	-1.4881139	-0.9910267
##	[155,]	1.63781663	-1.3991123	-2.1288863	1.0478732	1.1960170
##	[156,]	1.63781663	-0.6052340	-0.4059895	-0.6427849	-0.2620122
##	[157,]	0.83714151	-0.6052340	-0.4059895	1.0478732	-0.2620122
##	[158,]	-0.76420873	-0.6052340	0.4554588	0.2025442	1.1960170
##	[159,]	0.03646639	-0.6052340	1.3169072	0.2025442	-0.9910267
##	[160,]	1.63781663	0.9825227	0.4554588	1.0478732	0.4670024
##	[161,]	-0.76420873	-1.3991123	-2.1288863	1.0478732	1.1960170
##	[162,]	-0.76420873	-0.6052340	0.4554588	1.0478732	0.4670024
##	[163,]	1.63781663	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[164,]	-0.76420873	-1.3991123	0.4554588	-0.6427849	-0.2620122
##	[165,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[166,]	0.03646639	-1.3991123	0.4554588	-2.3334430	-0.9910267
##	[167,]	0.03646639	-1.3991123	-2.1288863	-0.6427849	1.9250315
##	[168,]	0.03646639	-0.6052340	-0.4059895	0.2025442	0.4670024
##	[169,]	0.83714151	0.1886444	0.4554588	0.2025442	-0.9910267
##	[170,]	0.83714151	0.9825227	-0.4059895	1.0478732	1.1960170
##	[171,]	-0.76420873	-1.3991123	-0.4059895	0.2025442	-0.2620122
##	[172,]	0.83714151	0.1886444	0.4554588	0.2025442	-0.9910267
##	[173,]	0.83714151	0.9825227	-1.2674379	1.0478732	1.9250315
##	[174,]	0.83714151	0.9825227	-0.4059895	-1.4881139	-0.9910267
##	[175,]	0.03646639	0.1886444	-2.1288863	-2.3334430	-0.9910267
##	[176,]	1.63781663	0.1886444	-0.4059895	1.0478732	1.9250315
##	[177,]	-1.56488384	-1.3991123	-0.4059895	1.0478732	1.9250315
##	[178,]	0.83714151	0.1886444	-2.1288863	1.0478732	1.9250315
##	[179,]	1.63781663	-0.6052340	-1.2674379	0.2025442	1.1960170
##	[180,]	1.63781663	-0.6052340	-2.1288863	-2.3334430	-0.2620122
##	[181,]	0.03646639	0.1886444	-1.2674379	1.0478732	1.1960170
##	[182,]	0.83714151	0.1886444	-0.4059895	0.2025442	0.4670024
##	[183,]	0.83714151	0.9825227	0.4554588	1.0478732	1.1960170
##	[184,]	-0.76420873	1.7764010	0.4554588	-0.6427849	-0.9910267
##	[185,]	0.03646639	0.9825227	-1.2674379	1.0478732	-0.9910267
##	[186,]	-0.76420873	1.7764010	-0.4059895	-1.4881139	-0.9910267
##	[187,]	0.03646639	0.1886444	0.4554588	-1.4881139	-0.9910267
##	[188,]	-0.76420873	-1.3991123	0.4554588	-0.6427849	-0.2620122
##	[189,]	1.63781663	0.9825227	-0.4059895	-0.6427849	-0.9910267
##	[190,]	1.63781663	0.1886444	-2.1288863	0.2025442	1.9250315
##	[191,]	0.83714151	-0.6052340	-1.2674379	0.2025442	1.9250315
##	[192,]	0.83714151	1.7764010	1.3169072	-1.4881139	-0.9910267
##	[193,]	0.03646639	0.1886444	1.3169072	0.2025442	-0.9910267
##	[194,]	1.63781663	0.1886444	-2.1288863	1.0478732	1.9250315
##	[195,]	0.03646639	-0.6052340	-1.2674379	0.2025442	-0.2620122
##	[196,]	0.03646639	-0.6052340	-1.2674379	-0.6427849	-0.9910267

##	[197,]	-0.76420873	0.1886444	0.4554588	0.2025442	0.4670024
##	[198,]	-1.56488384	0.9825227	-1.2674379	-1.4881139	-0.9910267
##	[199,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	0.4670024
##	[200,]	-1.56488384	-1.3991123	-1.2674379	-0.6427849	-0.9910267
##	[201,]	0.83714151	0.1886444	0.4554588	0.2025442	1.1960170
##	[202,]	0.03646639	0.1886444	1.3169072	1.0478732	-0.2620122
##	[203,]	-1.56488384	-1.3991123	-0.4059895	-1.4881139	-0.9910267
##	[204,]	0.03646639	-1.3991123	0.4554588	1.0478732	0.4670024
##	[205,]	0.03646639	0.1886444	-1.2674379	1.0478732	1.1960170
##	[206,]	1.63781663	1.7764010	0.4554588	0.2025442	0.4670024
##	[207,]	1.63781663	1.7764010	-0.4059895	0.2025442	1.1960170
##	[208,]	0.83714151	1.7764010	-0.4059895	-0.6427849	-0.9910267
##	[209,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[210,]	0.83714151	0.1886444	-1.2674379	1.0478732	1.1960170
##	[211,]	1.63781663	-1.3991123	0.4554588	1.0478732	1.1960170
##	[212,]	-0.76420873	1.7764010	1.3169072	1.0478732	-0.9910267
##	[213,]	1.63781663	-1.3991123	-1.2674379	0.2025442	-0.2620122
##	[214,]	0.03646639	0.9825227	1.3169072	1.0478732	-0.2620122
##	[215,]	0.03646639	0.1886444	-0.4059895	1.0478732	1.1960170
##	[216,]	-1.56488384	-1.3991123	-0.4059895	-2.3334430	-0.9910267
##	[217,]	-1.56488384	-1.3991123	-2.1288863	0.2025442	1.9250315
##	[218,]	-0.76420873	1.7764010	0.4554588	-0.6427849	-0.9910267
##	[219,]	-0.76420873	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[220,]	-1.56488384	-0.6052340	-0.4059895	-2.3334430	-0.9910267
##	[221,]	0.83714151	-0.6052340	-2.1288863	-0.6427849	-0.9910267
##	[222,]	0.83714151	0.1886444	-0.4059895	1.0478732	1.9250315
##	[223,]	0.83714151	0.1886444	1.3169072	1.0478732	0.4670024
##	[224,]	0.03646639	-1.3991123	0.4554588	-1.4881139	-0.2620122
##	[225,]	1.63781663	0.9825227	0.4554588	1.0478732	0.4670024
##	[226,]	0.83714151	0.9825227	-1.2674379	1.0478732	-0.2620122
##	[227,]	0.03646639	0.1886444	0.4554588	1.0478732	0.4670024
##	[228,]	1.63781663	0.1886444	-1.2674379	0.2025442	0.4670024
##	[229,]	0.83714151	-0.6052340	-0.4059895	-0.6427849	-0.9910267
##	[230,]	-1.56488384	-1.3991123	0.4554588	-0.6427849	-0.9910267
##	[231,]	1.63781663	1.7764010	1.3169072	-0.6427849	-0.9910267
##	[232,]	-0.76420873	-0.6052340	0.4554588	1.0478732	0.4670024
##	[233,]	0.83714151	-1.3991123	-1.2674379	-0.6427849	-0.2620122
##	[234,]	0.83714151	0.1886444	0.4554588	0.2025442	1.1960170
##	[235,]	-0.76420873	-1.3991123	0.4554588	1.0478732	1.1960170
##	[236,]	0.03646639	0.1886444	-0.4059895	1.0478732	1.1960170
##	[237,]	0.03646639	1.7764010	0.4554588	0.2025442	0.4670024
##	[238,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[239,]	-0.76420873	0.1886444	0.4554588	-1.4881139	-0.9910267
##	[240,]	1.63781663	-0.6052340	-1.2674379	0.2025442	-0.9910267
##	[241,]	-1.56488384	-1.3991123	-1.2674379	-0.6427849	-0.2620122
##	[242,]	0.03646639	1.7764010	-0.4059895	-0.6427849	-0.9910267
##	[243,]	-0.76420873	1.7764010	1.3169072	0.2025442	-0.9910267
##	[244,]	0.83714151	1.7764010	1.3169072	1.0478732	-0.9910267
##	[245,]	0.03646639	1.7764010	1.3169072	1.0478732	-0.2620122
##	[246,]	-0.76420873	-0.6052340	-0.4059895	0.2025442	0.4670024

##	[247,]	0.83714151	-1.3991123	0.4554588	1.0478732	-0.2620122
##	[248,]	0.83714151	1.7764010	-0.4059895	1.0478732	-0.2620122
##	[249,]	0.83714151	0.1886444	0.4554588	1.0478732	1.1960170
##	[250,]	0.83714151	0.9825227	1.3169072	1.0478732	1.1960170
##	[251,]	-0.76420873	-0.6052340	0.4554588	-0.6427849	-0.2620122
##	[252,]	0.03646639	1.7764010	1.3169072	1.0478732	-0.2620122
##	[253,]	0.03646639	0.1886444	0.4554588	1.0478732	-0.9910267
##	[254,]	-1.56488384	-1.3991123	-0.4059895	-2.3334430	-0.9910267
##	[255,]	-0.76420873	1.7764010	1.3169072	-0.6427849	-0.9910267
##	[256,]	1.63781663	1.7764010	-0.4059895	1.0478732	1.1960170
##	[257,]	-1.56488384	-0.6052340	1.3169072	-1.4881139	-0.9910267
##	[258,]	0.03646639	0.1886444	0.4554588	0.2025442	0.4670024
##	[259,]	1.63781663	-1.3991123	-2.1288863	1.0478732	1.9250315
##	[260,]	-0.76420873	-0.6052340	-0.4059895	0.2025442	-0.2620122
##	[261,]	0.03646639	0.1886444	-0.4059895	-0.6427849	0.4670024
##	[262,]	-0.76420873	-0.6052340	1.3169072	-1.4881139	-0.9910267
##	[263,]	1.63781663	0.9825227	-1.2674379	1.0478732	-0.2620122
##	[264,]	-0.76420873	0.9825227	1.3169072	0.2025442	-0.2620122
##	[265,]	0.03646639	0.1886444	1.3169072	0.2025442	0.4670024
##	[266,]	-0.76420873	0.1886444	1.3169072	-1.4881139	-0.9910267
##	[267,]	0.03646639	0.1886444	0.4554588	0.2025442	-0.9910267
##	[268,]	0.83714151	0.1886444	-1.2674379	0.2025442	1.1960170
##	[269,]	-0.76420873	-0.6052340	1.3169072	-1.4881139	-0.9910267
##	[270,]	0.83714151	0.9825227	-0.4059895	1.0478732	0.4670024
##	[271,]	-1.56488384	0.1886444	0.4554588	1.0478732	1.1960170
##	[272,]	-1.56488384	-1.3991123	0.4554588	1.0478732	1.9250315
##	[273,]	1.63781663	0.1886444	-1.2674379	1.0478732	1.9250315
##	[274,]	0.83714151	0.9825227	0.4554588	0.2025442	-0.2620122
##	[275,]	-0.76420873	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[276,]	0.83714151	1.7764010	-0.4059895	0.2025442	1.1960170
##	[277,]	-0.76420873	-0.6052340	1.3169072	1.0478732	1.1960170
##	[278,]	0.03646639	-1.3991123	0.4554588	1.0478732	0.4670024
##	[279,]	0.83714151	0.1886444	-0.4059895	0.2025442	-0.2620122
##	[280,]	-0.76420873	-1.3991123	0.4554588	-0.6427849	-0.9910267
##	[281,]	0.03646639	0.9825227	-1.2674379	1.0478732	1.9250315
##	[282,]	0.83714151	-1.3991123	-1.2674379	0.2025442	1.1960170
##	[283,]	-1.56488384	-0.6052340	-0.4059895	-1.4881139	-0.9910267
##	[284,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[285,]	-1.56488384	-1.3991123	-2.1288863	-2.3334430	-0.9910267
##	[286,]	0.03646639	0.1886444	1.3169072	1.0478732	-0.9910267
##	[287,]	0.83714151	0.1886444	0.4554588	0.2025442	-0.9910267
##	[288,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[289,]	0.03646639	-1.3991123	-1.2674379	-0.6427849	-0.2620122
##	[290,]	0.03646639	0.9825227	0.4554588	0.2025442	-0.2620122
##	[291,]	-0.76420873	0.9825227	0.4554588	0.2025442	-0.9910267
##	[292,]	0.03646639	0.1886444	-0.4059895	1.0478732	1.1960170
##	[293,]	-0.76420873	1.7764010	1.3169072	0.2025442	-0.9910267
##	[294,]	0.83714151	0.9825227	-2.1288863	1.0478732	1.1960170
##	[295,]	0.83714151	-0.6052340	-0.4059895	0.2025442	-0.9910267
##	[296,]	0.03646639	0.1886444	0.4554588	1.0478732	0.4670024

##	[297,]	-1.56488384	-1.3991123	1.3169072	-0.6427849	-0.2620122
##	[298,]	0.03646639	-0.6052340	-1.2674379	-0.6427849	-0.2620122
##	[299,]	-0.76420873	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[300,]	0.03646639	0.9825227	-1.2674379	0.2025442	-0.9910267
##	[301,]	1.63781663	-0.6052340	-1.2674379	0.2025442	1.9250315
##	[302,]	1.63781663	-0.6052340	-2.1288863	1.0478732	1.9250315
##	[303,]	-0.76420873	1.7764010	1.3169072	1.0478732	-0.2620122
##	[304,]	-0.76420873	1.7764010	0.4554588	1.0478732	1.1960170
##	[305,]	0.83714151	0.9825227	0.4554588	0.2025442	-0.2620122
##	[306,]	-0.76420873	-0.6052340	-1.2674379	1.0478732	-0.2620122
##	[307,]	0.03646639	0.1886444	-0.4059895	0.2025442	-0.2620122
##	[308,]	-0.76420873	1.7764010	-1.2674379	1.0478732	1.1960170
##	[309,]	0.03646639	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[310,]	0.03646639	0.1886444	-0.4059895	0.2025442	-0.9910267
##	[311,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[312,]	1.63781663	1.7764010	1.3169072	1.0478732	-0.2620122
##	[313,]	-0.76420873	-0.6052340	-0.4059895	0.2025442	0.4670024
##	[314,]	0.83714151	0.1886444	0.4554588	-1.4881139	-0.9910267
##	[315,]	0.83714151	1.7764010	1.3169072	1.0478732	1.9250315
##	[316,]	0.03646639	0.1886444	1.3169072	-1.4881139	-0.9910267
##	[317,]	-1.56488384	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[318,]	-0.76420873	-1.3991123	-0.4059895	1.0478732	-0.9910267
##	[319,]	0.03646639	0.1886444	-0.4059895	-2.3334430	-0.9910267
##	[320,]	0.83714151	1.7764010	1.3169072	0.2025442	-0.9910267
##	[321,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	1.1960170
##	[322,]	0.03646639	0.9825227	0.4554588	1.0478732	-0.2620122
##	[323,]	0.83714151	0.1886444	-1.2674379	1.0478732	1.9250315
##	[324,]	1.63781663	0.9825227	1.3169072	0.2025442	-0.9910267
##	[325,]	-0.76420873	-0.6052340	1.3169072	-0.6427849	-0.2620122
##	[326,]	0.03646639	0.1886444	0.4554588	0.2025442	1.1960170
##	[327,]	0.03646639	-0.6052340	1.3169072	0.2025442	-0.2620122
##	[328,]	0.83714151	0.9825227	1.3169072	-0.6427849	-0.9910267
##	[329,]	-0.76420873	-1.3991123	-1.2674379	1.0478732	1.1960170
##	[330,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[331,]	0.83714151	0.1886444	-0.4059895	1.0478732	0.4670024
##	[332,]	0.03646639	0.1886444	-1.2674379	1.0478732	-0.2620122
##	[333,]	0.03646639	1.7764010	-0.4059895	-1.4881139	-0.9910267
##	[334,]	0.03646639	0.9825227	1.3169072	0.2025442	-0.2620122
##	[335,]	-0.76420873	0.1886444	-1.2674379	-0.6427849	-0.2620122
##	[336,]	0.03646639	0.1886444	0.4554588	0.2025442	-0.2620122
##	[337,]	0.03646639	-0.6052340	1.3169072	-0.6427849	-0.9910267
##	[338,]	0.03646639	-0.6052340	-0.4059895	-0.6427849	-0.9910267
##	[339,]	0.83714151	0.1886444	-0.4059895	1.0478732	-0.2620122
##	[340,]	1.63781663	0.1886444	-1.2674379	1.0478732	1.9250315
##	[341,]	1.63781663	0.1886444	-1.2674379	-0.6427849	-0.9910267
##	[342,]	-1.56488384	-1.3991123	-1.2674379	-1.4881139	-0.2620122
##	[343,]	-0.76420873	0.9825227	-0.4059895	-0.6427849	-0.9910267
##	[344,]	-0.76420873	1.7764010	1.3169072	0.2025442	-0.2620122
##	[345,]	-1.56488384	-0.6052340	1.3169072	-0.6427849	-0.9910267
##	[346,]	-1.56488384	-0.6052340	0.4554588	0.2025442	0.4670024

##	[347,]	-1.56488384	-1.3991123	-0.4059895	-0.6427849	-0.9910267
##	[348,]	-0.76420873	-0.6052340	0.4554588	0.2025442	1.1960170
##	[349,]	1.63781663	1.7764010	0.4554588	-1.4881139	-0.9910267
##	[350,]	-0.76420873	0.1886444	1.3169072	-1.4881139	-0.9910267
##	[351,]	-1.56488384	-1.3991123	0.4554588	0.2025442	0.4670024
##	[352,]	1.63781663	0.1886444	1.3169072	1.0478732	-0.2620122
##	[353,]	-0.76420873	-1.3991123	-1.2674379	1.0478732	1.9250315
##	[354,]	0.03646639	-0.6052340	0.4554588	-1.4881139	-0.9910267
##	[355,]	0.83714151	0.9825227	0.4554588	0.2025442	-0.2620122
##	[356,]	-1.56488384	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[357,]	0.83714151	0.9825227	1.3169072	1.0478732	0.4670024
##	[358,]	-0.76420873	-0.6052340	-1.2674379	0.2025442	1.1960170
##	[359,]	-0.76420873	-1.3991123	-0.4059895	1.0478732	-0.2620122
##	[360,]	0.03646639	-0.6052340	1.3169072	-1.4881139	-0.9910267
##	[361,]	-1.56488384	0.1886444	1.3169072	1.0478732	-0.9910267
##	[362,]	1.63781663	-0.6052340	-1.2674379	1.0478732	1.1960170
##	[363,]	0.83714151	1.7764010	-0.4059895	1.0478732	1.1960170
##	[364,]	0.83714151	1.7764010	-0.4059895	1.0478732	0.4670024
##	[365,]	0.03646639	-0.6052340	0.4554588	1.0478732	1.1960170
##	[366,]	0.83714151	-0.6052340	-2.1288863	1.0478732	1.1960170
##	[367,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[368,]	0.83714151	-1.3991123	1.3169072	1.0478732	1.1960170
##	[369,]	0.03646639	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[370,]	-1.56488384	-1.3991123	-1.2674379	-1.4881139	1.1960170
##	[371,]	0.83714151	0.1886444	1.3169072	1.0478732	0.4670024
##	[372,]	1.63781663	1.7764010	1.3169072	1.0478732	0.4670024
##	[373,]	-0.76420873	-0.6052340	-1.2674379	0.2025442	-0.2620122
##	[374,]	-1.56488384	-1.3991123	1.3169072	-0.6427849	-0.9910267
##	[375,]	-1.56488384	-0.6052340	1.3169072	-0.6427849	-0.9910267
##	[376,]	-1.56488384	0.1886444	1.3169072	0.2025442	-0.2620122
##	[377,]	-1.56488384	-1.3991123	0.4554588	-2.3334430	-0.9910267
##	[378,]	0.83714151	-0.6052340	-0.4059895	1.0478732	1.1960170
##	[379,]	-0.76420873	0.9825227	1.3169072	0.2025442	-0.9910267
##	[380,]	0.83714151	1.7764010	0.4554588	0.2025442	-0.2620122
##	[381,]	-0.76420873	0.1886444	0.4554588	0.2025442	-0.9910267
##	[382,]	0.83714151	0.1886444	-1.2674379	1.0478732	0.4670024
##	[383,]	-0.76420873	-0.6052340	1.3169072	-2.3334430	-0.9910267
##	[384,]	0.03646639	0.9825227	-0.4059895	1.0478732	0.4670024
##	[385,]	-0.76420873	0.1886444	-0.4059895	1.0478732	1.9250315
##	[386,]	1.63781663	0.9825227	0.4554588	1.0478732	0.4670024
##	[387,]	-0.76420873	0.1886444	0.4554588	1.0478732	0.4670024
##	[388,]	-0.76420873	0.9825227	1.3169072	-1.4881139	-0.9910267
##	[389,]	0.83714151	0.9825227	1.3169072	0.2025442	-0.9910267
##	[390,]	0.03646639	0.1886444	-0.4059895	-1.4881139	-0.9910267
##	[391,]	0.03646639	-0.6052340	-1.2674379	-1.4881139	-0.9910267
##	[392,]	0.03646639	0.1886444	-0.4059895	-0.6427849	-0.2620122
##	[393,]	0.03646639	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[394,]	-1.56488384	-1.3991123	-2.1288863	-0.6427849	1.9250315
##	[395,]	-0.76420873	-1.3991123	-0.4059895	0.2025442	-0.2620122
##	[396,]	-1.56488384	-0.6052340	-0.4059895	0.2025442	1.9250315

##	[397,]	1.63781663	0.9825227	-0.4059895	-0.6427849	-0.9910267
##	[398,]	-0.76420873	0.1886444	0.4554588	-2.3334430	-0.9910267
##	[399,]	-0.76420873	-0.6052340	-1.2674379	-0.6427849	0.4670024
##	[400,]	1.63781663	1.7764010	0.4554588	0.2025442	0.4670024
##	[401,]	0.03646639	-1.3991123	0.4554588	-1.4881139	-0.9910267
##	[402,]	-1.56488384	0.1886444	-1.2674379	1.0478732	1.1960170
##	[403,]	1.63781663	-0.6052340	0.4554588	1.0478732	1.1960170
##	[404,]	0.03646639	0.9825227	-0.4059895	0.2025442	-0.2620122
##	[405,]	1.63781663	-0.6052340	0.4554588	1.0478732	-0.9910267
##	[406,]	0.03646639	0.1886444	-0.4059895	-1.4881139	-0.9910267
##	[407,]	0.83714151	1.7764010	1.3169072	0.2025442	-0.9910267
##	[408,]	0.03646639	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[409,]	1.63781663	1.7764010	-0.4059895	-2.3334430	-0.9910267
##	[410,]	-1.56488384	1.7764010	0.4554588	0.2025442	-0.9910267
##	[411,]	0.03646639	-1.3991123	0.4554588	1.0478732	-0.9910267
##	[412,]	0.03646639	0.9825227	1.3169072	1.0478732	-0.9910267
##	[413,]	-1.56488384	-1.3991123	-0.4059895	1.0478732	1.9250315
##	[414,]	-0.76420873	-0.6052340	0.4554588	0.2025442	1.1960170
##	[415,]	1.63781663	0.1886444	1.3169072	-0.6427849	-0.2620122
##	[416,]	-1.56488384	-1.3991123	1.3169072	1.0478732	-0.9910267
##	[417,]	0.83714151	-0.6052340	0.4554588	-0.6427849	-0.2620122
##	[418,]	-0.76420873	-0.6052340	-2.1288863	-1.4881139	1.1960170
##	[419,]	-0.76420873	0.1886444	1.3169072	-2.3334430	-0.9910267
##	[420,]	1.63781663	1.7764010	1.3169072	1.0478732	-0.9910267
##	[421,]	0.03646639	-1.3991123	-1.2674379	1.0478732	0.4670024
##	[422,]	1.63781663	1.7764010	1.3169072	0.2025442	-0.9910267
##	[423,]	-1.56488384	0.9825227	1.3169072	-2.3334430	-0.9910267
##	[424,]	0.03646639	0.1886444	1.3169072	0.2025442	0.4670024
##	[425,]	-0.76420873	-0.6052340	-0.4059895	-1.4881139	-0.9910267
##	[426,]	-0.76420873	0.1886444	0.4554588	1.0478732	0.4670024
##	[427,]	-1.56488384	-1.3991123	-1.2674379	1.0478732	1.1960170
##	[428,]	1.63781663	-1.3991123	-1.2674379	-0.6427849	-0.9910267
##	[429,]	0.83714151	1.7764010	1.3169072	-0.6427849	-0.2620122
##	[430,]	0.03646639	-0.6052340	-1.2674379	1.0478732	1.1960170
##	[431,]	0.83714151	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[432,]	-0.76420873	0.1886444	-1.2674379	-1.4881139	-0.9910267
##	[433,]	0.03646639	-1.3991123	-2.1288863	1.0478732	1.1960170
##	[434,]	-0.76420873	0.9825227	1.3169072	0.2025442	0.4670024
##	[435,]	-0.76420873	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[436,]	-1.56488384	-0.6052340	-0.4059895	1.0478732	1.9250315
##	[437,]	-0.76420873	-1.3991123	0.4554588	0.2025442	-0.2620122
##	[438,]	-1.56488384	-0.6052340	-0.4059895	-0.6427849	-0.9910267
##	[439,]	-0.76420873	0.1886444	0.4554588	1.0478732	1.1960170
##	[440,]	-1.56488384	-1.3991123	0.4554588	-1.4881139	-0.9910267
##	[441,]	0.83714151	0.1886444	0.4554588	0.2025442	-0.9910267
##	[442,]	-0.76420873	-0.6052340	1.3169072	0.2025442	-0.9910267
##	[443,]	0.03646639	0.1886444	1.3169072	0.2025442	-0.9910267
##	[444,]	0.83714151	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[445,]	-0.76420873	-0.6052340	-1.2674379	-0.6427849	1.1960170
##	[446,]	-0.76420873	0.1886444	1.3169072	-0.6427849	-0.9910267

##	[447,]	-0.76420873	-1.3991123	-0.4059895	-0.6427849	-0.9910267
##	[448,]	0.03646639	0.9825227	-2.1288863	-2.3334430	-0.9910267
##	[449,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[450,]	-0.76420873	1.7764010	-0.4059895	0.2025442	-0.2620122
##	[451,]	1.63781663	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[452,]	0.03646639	-1.3991123	0.4554588	0.2025442	-0.9910267
##	[453,]	-1.56488384	-1.3991123	1.3169072	-0.6427849	0.4670024
##	[454,]	-1.56488384	1.7764010	-0.4059895	0.2025442	-0.2620122
##	[455,]	-0.76420873	0.1886444	0.4554588	1.0478732	0.4670024
##	[456,]	-0.76420873	0.1886444	1.3169072	1.0478732	-0.2620122
##	[457,]	-1.56488384	-1.3991123	-0.4059895	-1.4881139	-0.9910267
##	[458,]	-0.76420873	-1.3991123	0.4554588	1.0478732	-0.2620122
##	[459,]	1.63781663	1.7764010	1.3169072	-2.3334430	-0.9910267
##	[460,]	0.03646639	0.1886444	-1.2674379	-0.6427849	-0.2620122
##	[461,]	-1.56488384	-1.3991123	-1.2674379	0.2025442	-0.2620122
##	[462,]	0.03646639	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[463,]	0.03646639	-1.3991123	-0.4059895	1.0478732	-0.9910267
##	[464,]	0.03646639	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[465,]	0.03646639	-0.6052340	-0.4059895	0.2025442	-0.9910267
##	[466,]	0.03646639	0.9825227	-0.4059895	-2.3334430	-0.9910267
##	[467,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[468,]	0.03646639	-0.6052340	-0.4059895	-1.4881139	-0.2620122
##	[469,]	0.83714151	-0.6052340	0.4554588	1.0478732	-0.2620122
##	[470,]	-1.56488384	-1.3991123	0.4554588	-0.6427849	-0.9910267
##	[471,]	-0.76420873	0.1886444	1.3169072	-1.4881139	-0.9910267
##	[472,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	1.1960170
##	[473,]	0.03646639	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[474,]	-1.56488384	-1.3991123	-1.2674379	0.2025442	1.1960170
##	[475,]	0.03646639	-1.3991123	1.3169072	-0.6427849	-0.9910267
##	[476,]	0.83714151	1.7764010	-0.4059895	1.0478732	1.1960170
##	[477,]	0.83714151	0.1886444	0.4554588	1.0478732	1.1960170
##	[478,]	-0.76420873	0.9825227	-1.2674379	1.0478732	0.4670024
##	[479,]	-0.76420873	0.1886444	0.4554588	0.2025442	-0.2620122
##	[480,]	0.03646639	0.1886444	-0.4059895	0.2025442	0.4670024
##	[481,]	0.03646639	0.9825227	1.3169072	0.2025442	-0.2620122
##	[482,]	1.63781663	-1.3991123	-2.1288863	-1.4881139	1.1960170
##	[483,]	-1.56488384	-1.3991123	-0.4059895	0.2025442	-0.2620122
##	[484,]	1.63781663	0.1886444	0.4554588	1.0478732	0.4670024
##	[485,]	-0.76420873	-0.6052340	0.4554588	0.2025442	0.4670024
##	[486,]	-0.76420873	-1.3991123	0.4554588	1.0478732	-0.9910267
##	[487,]	-0.76420873	-1.3991123	0.4554588	-1.4881139	-0.9910267
##	[488,]	-1.56488384	-1.3991123	-2.1288863	-2.3334430	-0.2620122
##	[489,]	1.63781663	0.9825227	-0.4059895	1.0478732	0.4670024
##	[490,]	-1.56488384	-1.3991123	-1.2674379	1.0478732	-0.9910267
##	[491,]	-0.76420873	0.1886444	-0.4059895	-1.4881139	-0.9910267
##	[492,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[493,]	0.83714151	0.9825227	-1.2674379	1.0478732	-0.2620122
##	[494,]	-0.76420873	-1.3991123	1.3169072	-0.6427849	-0.9910267
##	[495,]	-0.76420873	0.9825227	-1.2674379	1.0478732	-0.2620122
##	[496,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	-0.2620122

##	[497,]	1.63781663	0.9825227	-0.4059895	-0.6427849	-0.9910267
##	[498,]	0.83714151	0.9825227	1.3169072	1.0478732	-0.2620122
##	[499,]	0.03646639	-0.6052340	-1.2674379	0.2025442	-0.9910267
##	[500,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[501,]	0.83714151	-0.6052340	-1.2674379	0.2025442	-0.2620122
##	[502,]	0.83714151	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[503,]	0.83714151	-0.6052340	-1.2674379	1.0478732	0.4670024
##	[504,]	1.63781663	1.7764010	0.4554588	0.2025442	-0.9910267
##	[505,]	-0.76420873	-0.6052340	1.3169072	-2.3334430	-0.9910267
##	[506,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	0.4670024
##	[507,]	-1.56488384	-1.3991123	-1.2674379	-1.4881139	0.4670024
##	[508,]	0.03646639	0.9825227	-1.2674379	-1.4881139	-0.9910267
##	[509,]	0.83714151	-1.3991123	-0.4059895	1.0478732	-0.2620122
##	[510,]	0.03646639	0.9825227	0.4554588	-2.3334430	-0.9910267
##	[511,]	0.83714151	0.9825227	0.4554588	0.2025442	0.4670024
##	[512,]	0.03646639	-0.6052340	-0.4059895	-0.6427849	-0.9910267
##	[513,]	-0.76420873	-1.3991123	-2.1288863	-2.3334430	-0.9910267
##	[514,]	-0.76420873	0.1886444	-0.4059895	0.2025442	1.9250315
##	[515,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	-0.9910267
##	[516,]	0.03646639	0.9825227	0.4554588	1.0478732	1.9250315
##	[517,]	-0.76420873	0.1886444	1.3169072	0.2025442	1.1960170
##	[518,]	0.83714151	0.9825227	0.4554588	0.2025442	0.4670024
##	[519,]	0.03646639	-0.6052340	1.3169072	0.2025442	-0.9910267
##	[520,]	-0.76420873	-1.3991123	-2.1288863	-1.4881139	-0.2620122
##	[521,]	-0.76420873	-0.6052340	0.4554588	-1.4881139	-0.9910267
##	[522,]	1.63781663	0.9825227	1.3169072	-0.6427849	-0.2620122
##	[523,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[524,]	-0.76420873	-1.3991123	-2.1288863	-0.6427849	-0.9910267
##	[525,]	0.83714151	-0.6052340	-1.2674379	1.0478732	1.9250315
##	[526,]	0.03646639	0.1886444	-0.4059895	1.0478732	-0.9910267
##	[527,]	-0.76420873	-0.6052340	0.4554588	0.2025442	1.1960170
##	[528,]	-0.76420873	0.1886444	0.4554588	0.2025442	-0.9910267
##	[529,]	1.63781663	0.1886444	1.3169072	1.0478732	-0.9910267
##	[530,]	-0.76420873	-1.3991123	-0.4059895	1.0478732	0.4670024
##	[531,]	0.03646639	0.1886444	1.3169072	-1.4881139	-0.9910267
##	[532,]	1.63781663	-0.6052340	-1.2674379	1.0478732	1.1960170
##	[533,]	0.03646639	0.1886444	0.4554588	0.2025442	-0.2620122
##	[534,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	-0.2620122
##	[535,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[536,]	0.83714151	0.9825227	1.3169072	1.0478732	0.4670024
##	[537,]	-1.56488384	-0.6052340	0.4554588	-1.4881139	-0.2620122
##	[538,]	0.83714151	0.1886444	-0.4059895	0.2025442	-0.9910267
##	[539,]	0.03646639	0.1886444	0.4554588	0.2025442	1.1960170
##	[540,]	1.63781663	-1.3991123	0.4554588	1.0478732	1.1960170
##	[541,]	1.63781663	1.7764010	1.3169072	1.0478732	-0.9910267
##	[542,]	-0.76420873	0.1886444	-0.4059895	-1.4881139	-0.2620122
##	[543,]	-0.76420873	-0.6052340	0.4554588	0.2025442	0.4670024
##	[544,]	0.83714151	-0.6052340	0.4554588	0.2025442	1.1960170
##	[545,]	0.83714151	1.7764010	-1.2674379	1.0478732	1.1960170
##	[546,]	0.03646639	-1.3991123	-0.4059895	-0.6427849	0.4670024

##	[547,]	1.63781663	1.7764010	0.4554588	1.0478732	0.4670024
##	[548,]	1.63781663	0.1886444	-2.1288863	0.2025442	1.9250315
##	[549,]	0.03646639	-1.3991123	-1.2674379	1.0478732	-0.9910267
##	[550,]	-0.76420873	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[551,]	0.03646639	0.1886444	-0.4059895	1.0478732	-0.2620122
##	[552,]	-0.76420873	-0.6052340	0.4554588	-1.4881139	-0.9910267
##	[553,]	0.03646639	0.1886444	-1.2674379	0.2025442	-0.2620122
##	[554,]	-0.76420873	-0.6052340	-0.4059895	-1.4881139	-0.9910267
##	[555,]	0.03646639	0.9825227	-0.4059895	-0.6427849	-0.2620122
##	[556,]	-1.56488384	-0.6052340	1.3169072	-2.3334430	-0.9910267
##	[557,]	0.03646639	0.1886444	0.4554588	-2.3334430	-0.9910267
##	[558,]	-0.76420873	0.1886444	0.4554588	0.2025442	-0.2620122
##	[559,]	-0.76420873	0.9825227	0.4554588	-1.4881139	-0.9910267
##	[560,]	-1.56488384	-0.6052340	-1.2674379	0.2025442	-0.2620122
##	[561,]	0.83714151	0.1886444	0.4554588	-0.6427849	1.1960170
##	[562,]	0.83714151	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[563,]	-0.76420873	-0.6052340	0.4554588	-0.6427849	0.4670024
##	[564,]	0.03646639	-1.3991123	0.4554588	1.0478732	-0.2620122
##	[565,]	-1.56488384	-1.3991123	-2.1288863	1.0478732	-0.9910267
##	[566,]	-0.76420873	0.1886444	0.4554588	-1.4881139	-0.9910267
##	[567,]	-0.76420873	0.1886444	-1.2674379	-1.4881139	-0.9910267
##	[568,]	-1.56488384	-1.3991123	-0.4059895	-0.6427849	-0.2620122
##	[569,]	-0.76420873	-1.3991123	1.3169072	-0.6427849	-0.9910267
##	[570,]	0.03646639	-0.6052340	-0.4059895	-0.6427849	-0.2620122
##	[571,]	-0.76420873	-1.3991123	-0.4059895	-0.6427849	-0.9910267
##	[572,]	-0.76420873	0.1886444	0.4554588	-2.3334430	0.4670024
##	[573,]	0.83714151	0.1886444	-0.4059895	-0.6427849	0.4670024
##	[574,]	-1.56488384	-1.3991123	-1.2674379	0.2025442	0.4670024
##	[575,]	-1.56488384	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[576,]	0.83714151	0.9825227	-1.2674379	0.2025442	-0.2620122
##	[577,]	0.03646639	1.7764010	-0.4059895	-0.6427849	-0.9910267
##	[578,]	-0.76420873	1.7764010	-0.4059895	-0.6427849	-0.9910267
##	[579,]	-0.76420873	0.9825227	1.3169072	-1.4881139	-0.9910267
##	[580,]	1.63781663	-0.6052340	1.3169072	1.0478732	1.1960170
##	[581,]	-1.56488384	-1.3991123	-2.1288863	-2.3334430	-0.9910267
##	[582,]	-1.56488384	0.9825227	-0.4059895	0.2025442	0.4670024
##	[583,]	0.03646639	0.1886444	-1.2674379	-0.6427849	-0.2620122
##	[584,]	0.03646639	0.9825227	1.3169072	0.2025442	-0.9910267
##	[585,]	-0.76420873	-0.6052340	1.3169072	-0.6427849	-0.9910267
##	[586,]	0.03646639	-0.6052340	-0.4059895	0.2025442	0.4670024
##	[587,]	0.83714151	0.1886444	-1.2674379	-0.6427849	1.1960170
##	[588,]	-1.56488384	-1.3991123	-1.2674379	0.2025442	1.1960170
##	[589,]	-0.76420873	1.7764010	-1.2674379	-2.3334430	-0.9910267
##	[590,]	0.03646639	0.9825227	-2.1288863	1.0478732	1.9250315
##	[591,]	0.03646639	0.9825227	-0.4059895	1.0478732	1.1960170
##	[592,]	-1.56488384	1.7764010	0.4554588	-2.3334430	-0.9910267
##	[593,]	0.03646639	0.1886444	0.4554588	-2.3334430	-0.9910267
##	[594,]	0.83714151	0.1886444	-1.2674379	1.0478732	0.4670024
##	[595,]	1.63781663	-1.3991123	-0.4059895	0.2025442	-0.9910267
##	[596,]	-1.56488384	0.1886444	-2.1288863	0.2025442	1.1960170

##	[597,]	-0.76420873	-1.3991123	0.4554588	-0.6427849	-0.9910267
##	[598,]	-0.76420873	-0.6052340	1.3169072	1.0478732	-0.2620122
##	[599,]	-0.76420873	-1.3991123	-0.4059895	0.2025442	-0.2620122
##	[600,]	-0.76420873	-0.6052340	1.3169072	0.2025442	0.4670024
##	[601,]	1.63781663	0.1886444	0.4554588	0.2025442	1.1960170
##	[602,]	0.83714151	0.1886444	-1.2674379	0.2025442	-0.9910267
##	[603,]	-0.76420873	-0.6052340	1.3169072	0.2025442	1.1960170
##	[604,]	0.03646639	0.9825227	0.4554588	0.2025442	-0.2620122
##	[605,]	-1.56488384	0.1886444	0.4554588	0.2025442	-0.9910267
##	[606,]	-0.76420873	0.1886444	-0.4059895	1.0478732	0.4670024
##	[607,]	-0.76420873	-0.6052340	1.3169072	0.2025442	-0.9910267
##	[608,]	0.03646639	0.1886444	0.4554588	-0.6427849	0.4670024
##	[609,]	0.83714151	-0.6052340	1.3169072	-2.3334430	-0.9910267
##	[610,]	1.63781663	-0.6052340	-0.4059895	-0.6427849	-0.2620122
##	[611,]	0.03646639	-0.6052340	0.4554588	1.0478732	1.1960170
##	[612,]	-1.56488384	-1.3991123	1.3169072	-0.6427849	-0.9910267
##	[613,]	0.03646639	-0.6052340	-0.4059895	0.2025442	0.4670024
##	[614,]	-0.76420873	-1.3991123	-0.4059895	0.2025442	0.4670024
##	[615,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[616,]	1.63781663	0.9825227	0.4554588	1.0478732	-0.2620122
##	[617,]	0.83714151	-1.3991123	-0.4059895	1.0478732	0.4670024
##	[618,]	1.63781663	1.7764010	-0.4059895	0.2025442	-0.9910267
##	[619,]	1.63781663	1.7764010	1.3169072	1.0478732	-0.9910267
##	[620,]	1.63781663	0.9825227	-0.4059895	-0.6427849	-0.2620122
##	[621,]	1.63781663	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[622,]	-0.76420873	-0.6052340	-2.1288863	-0.6427849	1.1960170
##	[623,]	1.63781663	1.7764010	1.3169072	0.2025442	-0.2620122
##	[624,]	-1.56488384	-1.3991123	-2.1288863	-1.4881139	-0.2620122
##	[625,]	-1.56488384	-0.6052340	1.3169072	1.0478732	-0.2620122
##	[626,]	0.03646639	0.1886444	1.3169072	-1.4881139	-0.9910267
##	[627,]	-1.56488384	-1.3991123	-0.4059895	-0.6427849	-0.2620122
##	[628,]	-1.56488384	0.9825227	-1.2674379	-2.3334430	-0.9910267
##	[629,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	1.9250315
##	[630,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[631,]	-0.76420873	0.1886444	1.3169072	0.2025442	0.4670024
##	[632,]	0.83714151	1.7764010	0.4554588	1.0478732	0.4670024
##	[633,]	-0.76420873	-0.6052340	0.4554588	-0.6427849	0.4670024
##	[634,]	-1.56488384	-1.3991123	0.4554588	-0.6427849	-0.9910267
##	[635,]	0.83714151	0.9825227	0.4554588	-0.6427849	-0.2620122
##	[636,]	0.03646639	0.9825227	0.4554588	0.2025442	-0.9910267
##	[637,]	0.03646639	0.1886444	0.4554588	0.2025442	-0.9910267
##	[638,]	0.83714151	0.1886444	1.3169072	1.0478732	-0.2620122
##	[639,]	-0.76420873	1.7764010	1.3169072	1.0478732	0.4670024
##	[640,]	-1.56488384	-1.3991123	-2.1288863	1.0478732	1.9250315
##	[641,]	0.83714151	0.1886444	1.3169072	1.0478732	1.1960170
##	[642,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.2620122
##	[643,]	1.63781663	1.7764010	-0.4059895	-0.6427849	-0.2620122
##	[644,]	0.03646639	0.1886444	0.4554588	1.0478732	-0.9910267
##	[645,]	-0.76420873	-0.6052340	1.3169072	0.2025442	-0.2620122
##	[646,]	0.83714151	0.9825227	-0.4059895	-1.4881139	-0.9910267

##	[647,]	0.03646639	0.9825227	0.4554588	0.2025442	-0.9910267
##	[648,]	1.63781663	0.9825227	1.3169072	-0.6427849	-0.9910267
##	[649,]	-0.76420873	1.7764010	0.4554588	-0.6427849	-0.9910267
##	[650,]	-0.76420873	-0.6052340	-0.4059895	-0.6427849	0.4670024
##	[651,]	-1.56488384	-0.6052340	0.4554588	-1.4881139	-0.9910267
##	[652,]	0.03646639	-0.6052340	-0.4059895	-0.6427849	-0.2620122
##	[653,]	0.03646639	-1.3991123	1.3169072	0.2025442	-0.9910267
##	[654,]	0.03646639	-0.6052340	-0.4059895	1.0478732	1.9250315
##	[655,]	0.03646639	-0.6052340	1.3169072	-0.6427849	-0.2620122
##	[656,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	0.4670024
##	[657,]	0.83714151	-0.6052340	-1.2674379	1.0478732	0.4670024
##	[658,]	-1.56488384	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[659,]	0.03646639	-0.6052340	-1.2674379	-1.4881139	-0.2620122
##	[660,]	0.03646639	0.1886444	0.4554588	1.0478732	1.1960170
##	[661,]	0.03646639	-1.3991123	0.4554588	1.0478732	0.4670024
##	[662,]	-0.76420873	0.1886444	-0.4059895	-2.3334430	-0.9910267
##	[663,]	-1.56488384	0.1886444	0.4554588	0.2025442	-0.9910267
##	[664,]	0.83714151	0.1886444	0.4554588	-0.6427849	1.1960170
##	[665,]	0.03646639	0.9825227	-2.1288863	-1.4881139	-0.9910267
##	[666,]	0.03646639	-1.3991123	-1.2674379	1.0478732	1.9250315
##	[667,]	-0.76420873	-0.6052340	-1.2674379	1.0478732	0.4670024
##	[668,]	1.63781663	0.1886444	-2.1288863	-1.4881139	-0.9910267
##	[669,]	0.83714151	-0.6052340	-1.2674379	1.0478732	1.9250315
##	[670,]	0.03646639	0.9825227	-0.4059895	-0.6427849	0.4670024
##	[671,]	-0.76420873	0.1886444	-0.4059895	-0.6427849	0.4670024
##	[672,]	-0.76420873	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[673,]	1.63781663	1.7764010	0.4554588	0.2025442	-0.2620122
##	[674,]	0.03646639	0.9825227	1.3169072	0.2025442	-0.2620122
##	[675,]	0.03646639	-1.3991123	-0.4059895	1.0478732	0.4670024
##	[676,]	0.03646639	1.7764010	1.3169072	0.2025442	-0.2620122
##	[677,]	-0.76420873	-0.6052340	-2.1288863	-1.4881139	-0.2620122
##	[678,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.2620122
##	[679,]	0.03646639	0.1886444	-1.2674379	1.0478732	1.9250315
##	[680,]	-0.76420873	-0.6052340	-2.1288863	1.0478732	-0.2620122
##	[681,]	-0.76420873	0.9825227	1.3169072	1.0478732	-0.2620122
##	[682,]	0.83714151	0.9825227	-0.4059895	1.0478732	1.9250315
##	[683,]	0.03646639	0.1886444	0.4554588	0.2025442	0.4670024
##	[684,]	0.03646639	0.1886444	1.3169072	1.0478732	1.1960170
##	[685,]	-0.76420873	0.1886444	1.3169072	0.2025442	-0.9910267
##	[686,]	0.03646639	0.9825227	0.4554588	-0.6427849	-0.2620122
##	[687,]	0.83714151	0.1886444	0.4554588	0.2025442	0.4670024
##	[688,]	0.03646639	0.1886444	-0.4059895	1.0478732	1.1960170
##	[689,]	0.03646639	0.9825227	0.4554588	1.0478732	-0.9910267
##	[690,]	-0.76420873	-1.3991123	0.4554588	0.2025442	-0.9910267
##	[691,]	0.03646639	-0.6052340	-1.2674379	0.2025442	-0.9910267
##	[692,]	-0.76420873	0.1886444	-0.4059895	0.2025442	1.1960170
##	[693,]	0.03646639	0.1886444	0.4554588	1.0478732	1.9250315
##	[694,]	0.03646639	-0.6052340	0.4554588	-0.6427849	-0.2620122
##	[695,]	1.63781663	-0.6052340	-0.4059895	1.0478732	1.1960170
##	[696,]	0.03646639	1.7764010	1.3169072	0.2025442	-0.2620122

##	[697,]	-1.56488384	1.7764010	1.3169072	-0.6427849	-0.9910267
##	[698,]	0.03646639	0.1886444	0.4554588	1.0478732	0.4670024
##	[699,]	0.03646639	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[700,]	-0.76420873	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[701,]	-1.56488384	-1.3991123	-2.1288863	0.2025442	-0.2620122
##	[702,]	0.83714151	-0.6052340	-1.2674379	-1.4881139	-0.9910267
##	[703,]	1.63781663	-0.6052340	0.4554588	1.0478732	1.9250315
##	[704,]	0.03646639	-0.6052340	-0.4059895	0.2025442	1.1960170
##	[705,]	-0.76420873	0.9825227	1.3169072	1.0478732	-0.9910267
##	[706,]	0.83714151	0.1886444	-0.4059895	1.0478732	0.4670024
##	[707,]	0.03646639	0.9825227	1.3169072	0.2025442	-0.2620122
##	[708,]	0.03646639	0.9825227	-0.4059895	0.2025442	1.9250315
##	[709,]	-0.76420873	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[710,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	1.9250315
##	[711,]	-0.76420873	-0.6052340	1.3169072	0.2025442	-0.9910267
##	[712,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[713,]	-0.76420873	0.9825227	0.4554588	-0.6427849	-0.9910267
##	[714,]	0.03646639	0.1886444	-0.4059895	0.2025442	-0.9910267
##	[715,]	-1.56488384	0.1886444	-0.4059895	1.0478732	-0.9910267
##	[716,]	0.03646639	0.9825227	-1.2674379	1.0478732	1.9250315
##	[717,]	1.63781663	0.1886444	-1.2674379	-0.6427849	-0.2620122
##	[718,]	0.83714151	0.1886444	0.4554588	0.2025442	-0.2620122
##	[719,]	0.83714151	0.1886444	1.3169072	1.0478732	1.1960170
##	[720,]	0.03646639	-1.3991123	1.3169072	-0.6427849	0.4670024
##	[721,]	1.63781663	0.1886444	-0.4059895	-1.4881139	1.1960170
##	[722,]	1.63781663	0.1886444	0.4554588	0.2025442	-0.9910267
##	[723,]	1.63781663	0.1886444	1.3169072	1.0478732	-0.2620122
##	[724,]	0.03646639	0.9825227	1.3169072	0.2025442	-0.9910267
##	[725,]	-0.76420873	1.7764010	1.3169072	-0.6427849	-0.2620122
##	[726,]	0.83714151	-1.3991123	0.4554588	-1.4881139	-0.9910267
##	[727,]	-1.56488384	-1.3991123	1.3169072	-1.4881139	-0.9910267
##	[728,]	-1.56488384	-1.3991123	1.3169072	1.0478732	0.4670024
##	[729,]	-0.76420873	1.7764010	1.3169072	-1.4881139	-0.9910267
##	[730,]	1.63781663	0.9825227	0.4554588	1.0478732	1.1960170
##	[731,]	0.03646639	0.1886444	-2.1288863	1.0478732	1.9250315
##	[732,]	0.03646639	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[733,]	0.83714151	-0.6052340	-0.4059895	-0.6427849	-0.2620122
##	[734,]	1.63781663	0.9825227	-0.4059895	0.2025442	-0.2620122
##	[735,]	1.63781663	1.7764010	-0.4059895	-1.4881139	-0.2620122
##	[736,]	0.83714151	-0.6052340	-2.1288863	-2.3334430	-0.9910267
##	[737,]	1.63781663	1.7764010	0.4554588	1.0478732	1.1960170
##	[738,]	0.03646639	0.9825227	-0.4059895	0.2025442	-0.2620122
##	[739,]	-1.56488384	-1.3991123	-0.4059895	1.0478732	1.1960170
##	[740,]	0.83714151	0.9825227	0.4554588	1.0478732	1.9250315
##	[741,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[742,]	1.63781663	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[743,]	1.63781663	0.1886444	-1.2674379	0.2025442	-0.2620122
##	[744,]	-0.76420873	-0.6052340	-1.2674379	0.2025442	1.1960170
##	[745,]	1.63781663	0.9825227	-1.2674379	1.0478732	1.1960170
##	[746,]	-0.76420873	-0.6052340	-0.4059895	0.2025442	-0.2620122

##	[747,]	0.03646639	0.1886444	0.4554588	1.0478732	-0.2620122
##	[748,]	1.63781663	0.9825227	0.4554588	-1.4881139	1.1960170
##	[749,]	1.63781663	0.9825227	-0.4059895	0.2025442	1.1960170
##	[750,]	-1.56488384	-1.3991123	-2.1288863	1.0478732	0.4670024
##	[751,]	1.63781663	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[752,]	1.63781663	1.7764010	1.3169072	1.0478732	0.4670024
##	[753,]	0.03646639	0.9825227	1.3169072	-0.6427849	-0.9910267
##	[754,]	0.83714151	0.1886444	-0.4059895	0.2025442	-0.2620122
##	[755,]	-0.76420873	-1.3991123	0.4554588	-0.6427849	-0.2620122
##	[756,]	0.03646639	0.1886444	-0.4059895	1.0478732	1.9250315
##	[757,]	0.03646639	0.1886444	0.4554588	1.0478732	1.9250315
##	[758,]	1.63781663	1.7764010	-1.2674379	-0.6427849	-0.9910267
##	[759,]	-0.76420873	-1.3991123	-0.4059895	-2.3334430	-0.9910267
##	[760,]	1.63781663	1.7764010	1.3169072	0.2025442	0.4670024
##	[761,]	-0.76420873	-0.6052340	1.3169072	1.0478732	1.1960170
##	[762,]	-1.56488384	-1.3991123	0.4554588	-2.3334430	-0.9910267
##	[763,]	-1.56488384	-1.3991123	-0.4059895	-0.6427849	-0.9910267
##	[764,]	0.03646639	0.1886444	-0.4059895	1.0478732	0.4670024
##	[765,]	0.03646639	0.9825227	1.3169072	-0.6427849	-0.9910267
##	[766,]	0.83714151	0.1886444	0.4554588	1.0478732	1.9250315
##	[767,]	0.83714151	0.9825227	0.4554588	0.2025442	1.9250315
##	[768,]	0.03646639	0.1886444	-1.2674379	-1.4881139	1.9250315
##	[769,]	0.03646639	-1.3991123	0.4554588	-0.6427849	-0.2620122
##	[770,]	0.03646639	0.1886444	-0.4059895	-0.6427849	0.4670024
##	[771,]	-1.56488384	-1.3991123	-2.1288863	-2.3334430	-0.9910267
##	[772,]	0.83714151	-0.6052340	-0.4059895	1.0478732	1.9250315
##	[773,]	0.83714151	0.1886444	0.4554588	-1.4881139	-0.9910267
##	[774,]	-0.76420873	-0.6052340	-0.4059895	1.0478732	1.9250315
##	[775,]	0.83714151	0.1886444	-1.2674379	-1.4881139	-0.9910267
##	[776,]	0.83714151	0.1886444	-0.4059895	0.2025442	-0.9910267
##	[777,]	0.03646639	0.1886444	0.4554588	1.0478732	-0.9910267
##	[778,]	0.03646639	-0.6052340	1.3169072	-0.6427849	-0.9910267
##	[779,]	-1.56488384	0.1886444	1.3169072	-1.4881139	-0.9910267
##	[780,]	0.83714151	0.9825227	-0.4059895	-0.6427849	-0.2620122
##	[781,]	-0.76420873	0.1886444	0.4554588	0.2025442	-0.9910267
##	[782,]	0.03646639	-0.6052340	-0.4059895	-0.6427849	-0.9910267
##	[783,]	0.83714151	0.9825227	-0.4059895	1.0478732	1.9250315
##	[784,]	0.83714151	1.7764010	0.4554588	1.0478732	1.1960170
##	[785,]	0.83714151	0.9825227	0.4554588	-0.6427849	-0.9910267
##	[786,]	0.03646639	0.9825227	1.3169072	-1.4881139	0.4670024
##	[787,]	0.83714151	0.1886444	0.4554588	1.0478732	1.1960170
##	[788,]	-0.76420873	0.9825227	1.3169072	-1.4881139	-0.2620122
##	[789,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.2620122
##	[790,]	1.63781663	0.1886444	1.3169072	0.2025442	-0.9910267
##	[791,]	0.83714151	-1.3991123	-1.2674379	1.0478732	1.9250315
##	[792,]	0.03646639	-1.3991123	-0.4059895	-1.4881139	-0.9910267
##	[793,]	0.03646639	-1.3991123	-0.4059895	0.2025442	0.4670024
##	[794,]	0.03646639	0.1886444	-0.4059895	-1.4881139	1.1960170
##	[795,]	-1.56488384	-1.3991123	1.3169072	-1.4881139	-0.9910267
##	[796,]	-1.56488384	1.7764010	-2.1288863	1.0478732	-0.9910267

##	[797,]	0.83714151	0.1886444	1.3169072	-2.3334430	1.1960170
##	[798,]	0.03646639	0.9825227	-1.2674379	-1.4881139	-0.9910267
##	[799,]	0.83714151	0.1886444	0.4554588	1.0478732	0.4670024
##	[800,]	0.83714151	1.7764010	-1.2674379	0.2025442	1.9250315
##	[801,]	-0.76420873	0.9825227	0.4554588	-0.6427849	-0.9910267
##	[802,]	-1.56488384	-1.3991123	0.4554588	1.0478732	0.4670024
##	[803,]	-0.76420873	-0.6052340	1.3169072	0.2025442	1.1960170
##	[804,]	-0.76420873	0.9825227	-0.4059895	1.0478732	1.1960170
##	[805,]	0.83714151	0.9825227	1.3169072	1.0478732	0.4670024
##	[806,]	0.03646639	1.7764010	1.3169072	1.0478732	1.9250315
##	[807,]	-1.56488384	-1.3991123	-2.1288863	-2.3334430	-0.9910267
##	[808,]	1.63781663	1.7764010	-0.4059895	-1.4881139	-0.2620122
##	[809,]	0.03646639	-0.6052340	1.3169072	1.0478732	0.4670024
##	[810,]	-0.76420873	-1.3991123	-1.2674379	-1.4881139	-0.2620122
##	[811,]	1.63781663	1.7764010	-2.1288863	1.0478732	1.9250315
##	[812,]	0.83714151	-0.6052340	-0.4059895	1.0478732	1.1960170
##	[813,]	-1.56488384	-1.3991123	-2.1288863	-2.3334430	-0.9910267
##	[814,]	-1.56488384	-1.3991123	-1.2674379	-1.4881139	0.4670024
##	[815,]	1.63781663	0.9825227	0.4554588	-0.6427849	-0.2620122
##	[816,]	0.03646639	-1.3991123	-1.2674379	1.0478732	1.9250315
##	[817,]	0.83714151	0.1886444	0.4554588	1.0478732	1.9250315
##	[818,]	-1.56488384	-0.6052340	1.3169072	1.0478732	-0.2620122
##	[819,]	0.83714151	-1.3991123	0.4554588	0.2025442	1.1960170
##	[820,]	-0.76420873	-1.3991123	0.4554588	-1.4881139	-0.9910267
##	[821,]	0.83714151	1.7764010	-0.4059895	1.0478732	-0.2620122
##	[822,]	1.63781663	0.9825227	0.4554588	1.0478732	1.9250315
##	[823,]	-0.76420873	0.1886444	1.3169072	0.2025442	-0.9910267
##	[824,]	0.03646639	-1.3991123	-0.4059895	-1.4881139	-0.9910267
##	[825,]	1.63781663	-1.3991123	-0.4059895	1.0478732	0.4670024
##	[826,]	0.83714151	-0.6052340	-1.2674379	1.0478732	1.1960170
##	[827,]	0.83714151	0.9825227	0.4554588	1.0478732	0.4670024
##	[828,]	0.83714151	1.7764010	0.4554588	1.0478732	0.4670024
##	[829,]	-1.56488384	-0.6052340	0.4554588	1.0478732	0.4670024
##	[830,]	1.63781663	0.9825227	-0.4059895	1.0478732	1.9250315
##	[831,]	0.03646639	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[832,]	0.83714151	0.9825227	1.3169072	0.2025442	0.4670024
##	[833,]	1.63781663	1.7764010	-1.2674379	1.0478732	0.4670024
##	[834,]	0.83714151	0.1886444	-0.4059895	0.2025442	-0.9910267
##	[835,]	0.83714151	0.9825227	-0.4059895	1.0478732	1.1960170
##	[836,]	-0.76420873	0.1886444	1.3169072	0.2025442	-0.9910267
##	[837,]	-0.76420873	0.1886444	0.4554588	1.0478732	1.9250315
##	[838,]	1.63781663	0.1886444	-1.2674379	1.0478732	1.9250315
##	[839,]	-1.56488384	-0.6052340	1.3169072	0.2025442	-0.9910267
##	[840,]	-0.76420873	0.9825227	0.4554588	-0.6427849	-0.9910267
##	[841,]	-1.56488384	0.9825227	1.3169072	1.0478732	-0.9910267
##	[842,]	-0.76420873	-1.3991123	0.4554588	0.2025442	0.4670024
##	[843,]	0.03646639	0.1886444	0.4554588	1.0478732	-0.9910267
##	[844,]	0.03646639	0.1886444	0.4554588	0.2025442	-0.2620122
##	[845,]	1.63781663	1.7764010	-1.2674379	-0.6427849	-0.2620122
##	[846,]	-1.56488384	0.1886444	1.3169072	-2.3334430	-0.9910267

##	[847,]	0.03646639	0.1886444	0.4554588	-1.4881139	-0.9910267
##	[848,]	1.63781663	1.7764010	1.3169072	1.0478732	-0.2620122
##	[849,]	0.03646639	-1.3991123	-0.4059895	1.0478732	0.4670024
##	[850,]	1.63781663	0.1886444	-1.2674379	-1.4881139	-0.9910267
##	[851,]	0.03646639	0.9825227	0.4554588	-1.4881139	-0.9910267
##	[852,]	-0.76420873	-0.6052340	-1.2674379	-1.4881139	-0.9910267
##	[853,]	-0.76420873	-1.3991123	-1.2674379	-1.4881139	-0.9910267
##	[854,]	0.03646639	0.9825227	-0.4059895	-0.6427849	-0.9910267
##	[855,]	-1.56488384	-0.6052340	-0.4059895	-0.6427849	-0.9910267
##	[856,]	0.03646639	-0.6052340	1.3169072	0.2025442	0.4670024
##	[857,]	0.03646639	0.9825227	0.4554588	1.0478732	0.4670024
##	[858,]	0.03646639	1.7764010	0.4554588	-0.6427849	-0.9910267
##	[859,]	1.63781663	0.1886444	-1.2674379	-0.6427849	0.4670024
##	[860,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.2620122
##	[861,]	0.03646639	0.1886444	-0.4059895	0.2025442	1.1960170
##	[862,]	0.03646639	-1.3991123	-0.4059895	1.0478732	-0.9910267
##	[863,]	0.03646639	-0.6052340	1.3169072	0.2025442	0.4670024
##	[864,]	0.83714151	0.9825227	-0.4059895	-1.4881139	-0.9910267
##	[865,]	0.03646639	0.9825227	-0.4059895	1.0478732	1.1960170
##	[866,]	0.03646639	0.9825227	-0.4059895	0.2025442	-0.2620122
##	[867,]	0.83714151	0.9825227	-1.2674379	1.0478732	1.1960170
##	[868,]	-0.76420873	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[869,]	-0.76420873	0.9825227	0.4554588	0.2025442	0.4670024
##	[870,]	1.63781663	0.9825227	0.4554588	1.0478732	0.4670024
##	[871,]	-0.76420873	-1.3991123	1.3169072	-0.6427849	0.4670024
##	[872,]	0.83714151	0.1886444	-0.4059895	1.0478732	1.1960170
##	[873,]	0.03646639	0.1886444	-0.4059895	1.0478732	0.4670024
##	[874,]	0.03646639	0.1886444	-0.4059895	0.2025442	-0.2620122
##	[875,]	-1.56488384	-0.6052340	-0.4059895	-1.4881139	-0.9910267
##	[876,]	-1.56488384	0.1886444	-0.4059895	-1.4881139	-0.9910267
##	[877,]	0.03646639	-1.3991123	0.4554588	-2.3334430	-0.9910267
##	[878,]	0.03646639	-1.3991123	-2.1288863	1.0478732	0.4670024
##	[879,]	0.83714151	1.7764010	0.4554588	0.2025442	-0.2620122
##	[880,]	-0.76420873	-1.3991123	-1.2674379	0.2025442	1.9250315
##	[881,]	-1.56488384	-0.6052340	-0.4059895	-1.4881139	-0.9910267
##	[882,]	1.63781663	1.7764010	0.4554588	1.0478732	-0.2620122
##	[883,]	-0.76420873	-1.3991123	-1.2674379	0.2025442	0.4670024
##	[884,]	-0.76420873	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[885,]	0.83714151	-1.3991123	0.4554588	1.0478732	0.4670024
##	[886,]	-0.76420873	0.1886444	0.4554588	0.2025442	1.1960170
##	[887,]	0.03646639	-1.3991123	-0.4059895	0.2025442	1.9250315
##	[888,]	0.03646639	0.1886444	-1.2674379	1.0478732	0.4670024
##	[889,]	-0.76420873	-0.6052340	0.4554588	0.2025442	0.4670024
##	[890,]	1.63781663	0.1886444	-0.4059895	0.2025442	0.4670024
##	[891,]	0.03646639	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[892,]	-1.56488384	0.1886444	0.4554588	0.2025442	-0.2620122
##	[893,]	-0.76420873	0.1886444	-0.4059895	1.0478732	0.4670024
##	[894,]	0.03646639	-0.6052340	-1.2674379	0.2025442	0.4670024
##	[895,]	-0.76420873	0.1886444	-0.4059895	1.0478732	0.4670024
##	[896,]	-0.76420873	-0.6052340	-0.4059895	-0.6427849	-0.9910267

##	[897,]	0.03646639	0.9825227	-1.2674379	1.0478732	0.4670024
##	[898,]	-1.56488384	-0.6052340	0.4554588	-0.6427849	-0.9910267
##	[899,]	0.03646639	-0.6052340	-1.2674379	1.0478732	-0.2620122
##	[900,]	-0.76420873	-1.3991123	-0.4059895	-0.6427849	-0.2620122
##	[901,]	0.03646639	0.9825227	-0.4059895	-0.6427849	-0.9910267
##	[902,]	-0.76420873	-0.6052340	-0.4059895	-0.6427849	-0.9910267
##	[903,]	0.03646639	-1.3991123	-1.2674379	-0.6427849	-0.2620122
##	[904,]	-0.76420873	-1.3991123	-2.1288863	1.0478732	1.9250315
##	[905,]	-0.76420873	1.7764010	1.3169072	-0.6427849	-0.9910267
##	[906,]	-0.76420873	-0.6052340	0.4554588	0.2025442	-0.9910267
##	[907,]	1.63781663	1.7764010	-1.2674379	-2.3334430	-0.9910267
##	[908,]	-0.76420873	0.1886444	1.3169072	-0.6427849	-0.2620122
##	[909,]	-0.76420873	-1.3991123	0.4554588	0.2025442	0.4670024
##	[910,]	0.03646639	0.9825227	0.4554588	-0.6427849	-0.2620122
##	[911,]	0.03646639	0.9825227	0.4554588	1.0478732	-0.9910267
##	[912,]	0.83714151	1.7764010	-0.4059895	1.0478732	1.9250315
##	[913,]	-1.56488384	-1.3991123	0.4554588	-0.6427849	-0.2620122
##	[914,]	0.83714151	0.1886444	-0.4059895	0.2025442	-0.9910267
##	[915,]	1.63781663	0.1886444	-0.4059895	1.0478732	1.1960170
##	[916,]	-1.56488384	0.1886444	0.4554588	0.2025442	0.4670024
##	[917,]	0.03646639	-1.3991123	-0.4059895	1.0478732	1.1960170
##	[918,]	0.03646639	-0.6052340	-1.2674379	1.0478732	1.1960170
##	[919,]	-0.76420873	0.9825227	0.4554588	1.0478732	1.9250315
##	[920,]	0.03646639	-1.3991123	-0.4059895	0.2025442	1.1960170
##	[921,]	0.03646639	1.7764010	-0.4059895	0.2025442	0.4670024
##	[922,]	-1.56488384	-1.3991123	0.4554588	-0.6427849	-0.2620122
##	[923,]	0.03646639	-0.6052340	1.3169072	-0.6427849	-0.9910267
##	[924,]	1.63781663	-0.6052340	0.4554588	0.2025442	-0.2620122
##	[925,]	-1.56488384	-1.3991123	-0.4059895	-1.4881139	-0.9910267
##	[926,]	-0.76420873	0.9825227	-0.4059895	-1.4881139	-0.9910267
##	[927,]	-0.76420873	-0.6052340	-1.2674379	0.2025442	0.4670024
##	[928,]	-1.56488384	-1.3991123	1.3169072	-0.6427849	-0.9910267
##	[929,]	1.63781663	0.1886444	0.4554588	-0.6427849	-0.2620122
##	[930,]	0.83714151	-0.6052340	0.4554588	-1.4881139	0.4670024
##	[931,]	-0.76420873	0.1886444	-0.4059895	-1.4881139	-0.2620122
##	[932,]	-1.56488384	0.1886444	0.4554588	-0.6427849	1.1960170
##	[933,]	-1.56488384	0.1886444	1.3169072	-0.6427849	-0.2620122
##	[934,]	1.63781663	0.9825227	-0.4059895	0.2025442	-0.2620122
##	[935,]	-0.76420873	0.1886444	-0.4059895	0.2025442	1.9250315
##	[936,]	-1.56488384	-0.6052340	1.3169072	-1.4881139	-0.9910267
##	[937,]	0.03646639	-1.3991123	0.4554588	-0.6427849	1.1960170
##	[938,]	1.63781663	0.9825227	1.3169072	1.0478732	1.1960170
##	[939,]	1.63781663	-1.3991123	0.4554588	1.0478732	-0.2620122
##	[940,]	1.63781663	0.1886444	0.4554588	0.2025442	-0.9910267
##	[941,]	0.03646639	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[942,]	-0.76420873	-0.6052340	0.4554588	0.2025442	0.4670024
##	[943,]	0.83714151	-1.3991123	0.4554588	-1.4881139	-0.9910267
##	[944,]	1.63781663	-0.6052340	-0.4059895	0.2025442	-0.9910267
##	[945,]	0.83714151	0.1886444	1.3169072	0.2025442	-0.9910267
##	[946,]	0.03646639	0.1886444	0.4554588	0.2025442	1.1960170

##	[947,]	0.83714151	0.1886444	-0.4059895	1.0478732	1.9250315
##	[948,]	-0.76420873	-1.3991123	-0.4059895	-0.6427849	0.4670024
##	[949,]	0.03646639	0.9825227	0.4554588	-0.6427849	-0.9910267
##	[950,]	-1.56488384	-0.6052340	-0.4059895	0.2025442	0.4670024
##	[951,]	0.83714151	-0.6052340	0.4554588	1.0478732	1.9250315
##	[952,]	-1.56488384	-1.3991123	0.4554588	-0.6427849	-0.2620122
##	[953,]	0.83714151	0.1886444	0.4554588	1.0478732	0.4670024
##	[954,]	0.03646639	0.1886444	1.3169072	0.2025442	-0.9910267
##	[955,]	-0.76420873	0.1886444	-0.4059895	-0.6427849	-0.9910267
##	[956,]	-1.56488384	-1.3991123	-1.2674379	1.0478732	1.9250315
##	[957,]	0.03646639	0.9825227	0.4554588	0.2025442	0.4670024
##	[958,]	-1.56488384	-0.6052340	-1.2674379	-1.4881139	-0.9910267
##	[959,]	0.03646639	0.1886444	0.4554588	-2.3334430	-0.9910267
##	[960,]	0.83714151	0.9825227	0.4554588	-0.6427849	-0.2620122
##	[961,]	1.63781663	-1.3991123	-0.4059895	1.0478732	1.9250315
##	[962,]	0.03646639	0.9825227	1.3169072	-0.6427849	-0.9910267
##	[963,]	1.63781663	0.1886444	-1.2674379	-2.3334430	-0.9910267
##	[964,]	1.63781663	-1.3991123	1.3169072	0.2025442	-0.9910267
##	[965,]	0.03646639	0.1886444	-0.4059895	1.0478732	1.9250315
##	[966,]	0.03646639	1.7764010	1.3169072	1.0478732	-0.2620122
##	[967,]	1.63781663	1.7764010	-2.1288863	-2.3334430	-0.9910267
##	[968,]	0.03646639	-0.6052340	-1.2674379	1.0478732	1.9250315
##	[969,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.2620122
##	[970,]	0.03646639	-0.6052340	0.4554588	1.0478732	1.1960170
##	[971,]	1.63781663	1.7764010	-0.4059895	0.2025442	-0.2620122
##	[972,]	0.83714151	-0.6052340	-1.2674379	1.0478732	1.1960170
##	[973,]	0.03646639	0.9825227	-0.4059895	1.0478732	-0.2620122
##	[974,]	0.83714151	1.7764010	-1.2674379	1.0478732	1.9250315
##	[975,]	-0.76420873	-0.6052340	-1.2674379	1.0478732	1.9250315
##	[976,]	1.63781663	1.7764010	1.3169072	1.0478732	1.9250315
##	[977,]	0.03646639	1.7764010	1.3169072	1.0478732	-0.2620122
##	[978,]	-1.56488384	-1.3991123	0.4554588	0.2025442	0.4670024
##	[979,]	-0.76420873	-1.3991123	0.4554588	1.0478732	1.9250315
##	[980,]	0.83714151	0.9825227	1.3169072	1.0478732	-0.9910267
##	[981,]	1.63781663	-1.3991123	0.4554588	0.2025442	1.1960170
##	[982,]	1.63781663	1.7764010	-0.4059895	0.2025442	-0.9910267
##	[983,]	0.03646639	-0.6052340	-1.2674379	0.2025442	0.4670024
##	[984,]	0.03646639	0.1886444	1.3169072	-0.6427849	-0.9910267
##	[985,]	0.03646639	0.1886444	-0.4059895	0.2025442	1.1960170
##	[986,]	0.83714151	-0.6052340	0.4554588	1.0478732	0.4670024
##	[987,]	1.63781663	-0.6052340	-1.2674379	0.2025442	-0.2620122
##	[988,]	-0.76420873	-1.3991123	-2.1288863	1.0478732	0.4670024
##	[989,]	1.63781663	-0.6052340	-1.2674379	1.0478732	-0.2620122
##	[990,]	0.83714151	1.7764010	1.3169072	1.0478732	1.9250315
##	[991,]	-0.76420873	-0.6052340	-0.4059895	0.2025442	1.1960170
##	[992,]	-1.56488384	-1.3991123	-2.1288863	1.0478732	1.9250315
##	[993,]	0.83714151	-1.3991123	-0.4059895	0.2025442	1.1960170
##	[994,]	0.03646639	-1.3991123	0.4554588	0.2025442	-0.9910267
##	[995,]	0.03646639	0.9825227	-0.4059895	1.0478732	0.4670024
##	[996,]	-1.56488384	-0.6052340	-2.1288863	0.2025442	1.1960170

##	[997,]	0.03646639	-0.6052340	-2.1288863	0.2025442	0.4670024
##	[998,]	-1.56488384	0.1886444	-0.4059895	0.2025442	-0.2620122
##	[999,]	0.03646639	-0.6052340	-0.4059895	1.0478732	1.9250315
##	[1000,]	1.63781663	0.9825227	0.4554588	0.2025442	0.4670024
##	[1001,]	0.03646639	0.1886444	0.4554588	-0.6427849	-0.9910267
##	[1002,]	-1.56488384	0.9825227	0.4554588	-0.6427849	-0.2620122
##	[1003,]	-1.56488384	-1.3991123	-1.2674379	1.0478732	1.9250315
##	[1004,]	-0.76420873	0.1886444	0.4554588	1.0478732	-0.2620122
##	[1005,]	0.03646639	-0.6052340	-0.4059895	-0.6427849	1.1960170
##	[1006,]	1.63781663	0.9825227	0.4554588	0.2025442	0.4670024
##	[1007,]	0.83714151	-1.3991123	0.4554588	-2.3334430	-0.9910267
##	[1008,]	-0.76420873	-0.6052340	-0.4059895	0.2025442	-0.9910267
##	[1009,]	0.03646639	-1.3991123	-0.4059895	0.2025442	-0.9910267
##	[1010,]	0.03646639	0.1886444	0.4554588	-2.3334430	-0.9910267
##		Punk Hiphop..Rap Reggae..Ska Swing..Jazz Rock.n.roll				
Alternative						
##	[1,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.1137275 -
		1.3542194				
##	[2,]	1.1855890	-1.38888755	0.1831449	-1.3974051	0.6951791
		0.8721967				
##	[3,]	1.1855890	-1.38888755	1.0052620	0.1937777	1.5040857
		1.6143354				
##	[4,]	1.1855890	-0.66206039	-0.6389722	-1.3974051	-0.9226341
		1.6143354				
##	[5,]	-0.3495967	1.51842111	0.1831449	-0.6018137	-1.7315407 -
		0.6120807				
##	[6,]	0.4179961	0.79159394	0.1831449	0.9893691	0.6951791
		1.6143354				
##	[7,]	-1.1171896	0.06476678	-1.4610893	-1.3974051	-0.9226341
		0.1300580				
##	[8,]	-0.3495967	0.06476678	-0.6389722	-0.6018137	-0.1137275 -
		1.3542194				
##	[9,]	-1.1171896	-1.38888755	-0.6389722	-0.6018137	-0.9226341 -
		1.3542194				
##	[10,]	0.4179961	-0.66206039	1.0052620	0.9893691	0.6951791
		0.8721967				
##	[11,]	-1.1171896	0.06476678	-0.6389722	-0.6018137	-0.1137275
		0.1300580				
##	[12,]	-1.1171896	-1.38888755	-1.4610893	-0.6018137	-0.9226341
		1.6143354				
##	[13,]	-0.3495967	0.06476678	-1.4610893	-1.3974051	0.6951791
		0.1300580				
##	[14,]	-1.1171896	-0.66206039	-1.4610893	0.1937777	-0.9226341 -
		1.3542194				
##	[15,]	1.9531818	0.06476678	1.0052620	0.9893691	0.6951791
		0.8721967				
##	[16,]	1.9531818	-0.66206039	1.0052620	-0.6018137	-0.1137275
		0.1300580				
##	[17,]	0.4179961	-0.66206039	0.1831449	-0.6018137	-0.1137275 -
		1.3542194				

##	[18,]	0.4179961	0.06476678	1.0052620	0.1937777	-0.1137275	-
	1.3542194						
##	[19,]	0.4179961	0.79159394	1.0052620	0.9893691	0.6951791	
	0.8721967						
##	[20,]	-0.3495967	-1.38888755	1.0052620	1.7849606	0.6951791	
	0.1300580						
##	[21,]	1.1855890	0.79159394	0.1831449	1.7849606	0.6951791	
	1.6143354						
##	[22,]	1.1855890	-1.38888755	-0.6389722	-1.3974051	0.6951791	
	0.1300580						
##	[23,]	-0.3495967	-0.66206039	-1.4610893	-1.3974051	-0.1137275	-
	0.6120807						
##	[24,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275	-
	1.3542194						
##	[25,]	1.9531818	-1.38888755	-1.4610893	-1.3974051	-0.9226341	
	0.1300580						
##	[26,]	-1.1171896	0.06476678	-1.4610893	-0.6018137	-1.7315407	-
	1.3542194						
##	[27,]	-0.3495967	-0.66206039	-1.4610893	0.1937777	1.5040857	
	0.1300580						
##	[28,]	1.1855890	-0.66206039	1.0052620	-0.6018137	-0.1137275	
	0.8721967						
##	[29,]	0.4179961	1.51842111	-0.6389722	-1.3974051	0.6951791	
	0.1300580						
##	[30,]	0.4179961	0.06476678	1.0052620	0.1937777	0.6951791	
	0.1300580						
##	[31,]	-0.3495967	0.79159394	0.1831449	0.9893691	-0.1137275	
	0.1300580						
##	[32,]	-1.1171896	0.06476678	0.1831449	-0.6018137	-1.7315407	-
	1.3542194						
##	[33,]	1.1855890	0.79159394	-0.6389722	-0.6018137	0.6951791	
	0.8721967						
##	[34,]	-1.1171896	-1.38888755	0.1831449	0.9893691	0.6951791	
	0.1300580						
##	[35,]	1.1855890	-0.66206039	0.1831449	0.1937777	0.6951791	
	0.8721967						
##	[36,]	-1.1171896	0.79159394	0.1831449	-1.3974051	-0.1137275	
	0.1300580						
##	[37,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
	1.3542194						
##	[38,]	-0.3495967	-1.38888755	-0.6389722	-0.6018137	-0.9226341	-
	1.3542194						
##	[39,]	-0.3495967	0.79159394	1.8273791	-0.6018137	-0.9226341	-
	1.3542194						
##	[40,]	1.1855890	-1.38888755	-0.6389722	-1.3974051	1.5040857	-
	0.6120807						
##	[41,]	-1.1171896	0.06476678	-0.6389722	-1.3974051	-1.7315407	-
	1.3542194						
##	[42,]	-1.1171896	1.51842111	1.8273791	1.7849606	1.5040857	
	1.6143354						

##	[43,]	1.1855890	0.06476678	0.1831449	0.1937777	-0.1137275	
		0.8721967					
##	[44,]	-0.3495967	0.06476678	-0.6389722	-0.6018137	-0.9226341	
		0.8721967					
##	[45,]	-1.1171896	0.06476678	-1.4610893	0.1937777	-0.1137275	
		0.8721967					
##	[46,]	-0.3495967	0.06476678	0.1831449	0.1937777	1.5040857	-
		1.3542194					
##	[47,]	-0.3495967	1.51842111	-0.6389722	0.1937777	1.5040857	
		0.8721967					
##	[48,]	-0.3495967	-1.38888755	0.1831449	0.1937777	-0.1137275	
		0.8721967					
##	[49,]	-0.3495967	1.51842111	1.8273791	-0.6018137	-0.9226341	-
		0.6120807					
##	[50,]	1.9531818	0.06476678	-0.6389722	-0.6018137	0.6951791	-
		0.6120807					
##	[51,]	1.1855890	0.79159394	1.0052620	0.1937777	0.6951791	
		0.8721967					
##	[52,]	-0.3495967	-0.66206039	1.0052620	0.9893691	0.6951791	
		0.1300580					
##	[53,]	-0.3495967	1.51842111	1.8273791	1.7849606	1.5040857	-
		0.6120807					
##	[54,]	-0.3495967	0.06476678	0.1831449	0.1937777	-0.1137275	
		0.1300580					
##	[55,]	0.4179961	0.06476678	0.1831449	0.9893691	0.6951791	
		0.1300580					
##	[56,]	-0.3495967	0.79159394	0.1831449	0.1937777	0.6951791	
		0.8721967					
##	[57,]	1.1855890	-0.66206039	0.1831449	0.9893691	1.5040857	
		1.6143354					
##	[58,]	-0.3495967	-0.66206039	-0.6389722	0.9893691	1.5040857	
		1.6143354					
##	[59,]	-1.1171896	-0.66206039	-0.6389722	-1.3974051	-0.9226341	-
		0.6120807					
##	[60,]	1.9531818	0.06476678	0.1831449	0.9893691	1.5040857	
		1.6143354					
##	[61,]	0.4179961	-0.66206039	0.1831449	0.1937777	0.6951791	
		0.8721967					
##	[62,]	-0.3495967	0.06476678	-0.6389722	0.1937777	-0.1137275	
		0.1300580					
##	[63,]	1.1855890	1.51842111	1.0052620	1.7849606	1.5040857	
		1.6143354					
##	[64,]	-1.1171896	1.51842111	1.0052620	0.1937777	-0.1137275	-
		1.3542194					
##	[65,]	0.4179961	-0.66206039	-1.4610893	-0.6018137	-0.9226341	-
		1.3542194					
##	[66,]	-0.3495967	0.79159394	-0.6389722	-0.6018137	-0.9226341	-
		1.3542194					
##	[67,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.9226341	-
		0.6120807					

## [68,]	-1.1171896	0.79159394	0.1831449	0.9893691	0.6951791	-
1.3542194						
## [69,]	1.9531818	-1.38888755	1.8273791	0.9893691	0.6951791	
0.1300580						
## [70,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [71,]	-1.1171896	1.51842111	-0.6389722	0.1937777	-1.7315407	-
1.3542194						
## [72,]	-1.1171896	0.79159394	1.0052620	-1.3974051	-0.9226341	
0.1300580						
## [73,]	1.1855890	0.79159394	-0.6389722	-0.6018137	-0.1137275	
0.1300580						
## [74,]	-0.3495967	1.51842111	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [75,]	-1.1171896	1.51842111	1.0052620	-1.3974051	-1.7315407	-
1.3542194						
## [76,]	1.1855890	0.06476678	1.8273791	0.9893691	1.5040857	
0.8721967						
## [77,]	0.4179961	0.79159394	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [78,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [79,]	-1.1171896	0.79159394	1.8273791	1.7849606	1.5040857	
0.1300580						
## [80,]	-0.3495967	1.51842111	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [81,]	0.4179961	0.79159394	1.0052620	0.1937777	0.6951791	-
0.6120807						
## [82,]	0.4179961	0.79159394	1.0052620	0.1937777	0.6951791	
0.1300580						
## [83,]	1.1855890	-1.38888755	-1.4610893	-0.6018137	-0.9226341	
1.6143354						
## [84,]	-1.1171896	0.06476678	-0.6389722	0.9893691	-0.1137275	-
1.3542194						
## [85,]	1.9531818	0.79159394	1.0052620	1.7849606	1.5040857	
0.8721967						
## [86,]	-1.1171896	-1.38888755	-1.4610893	-0.6018137	-0.1137275	
0.1300580						
## [87,]	0.4179961	0.79159394	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [88,]	1.1855890	0.06476678	1.8273791	0.1937777	0.6951791	
0.8721967						
## [89,]	-1.1171896	-1.38888755	-1.4610893	1.7849606	1.5040857	
0.8721967						
## [90,]	0.4179961	-1.38888755	-0.6389722	0.9893691	0.6951791	
0.8721967						
## [91,]	0.4179961	-1.38888755	0.1831449	-1.3974051	-0.9226341	
0.1300580						
## [92,]	1.9531818	-1.38888755	1.8273791	-1.3974051	-0.1137275	-
1.3542194						

## [93,]	-0.3495967	-1.38888755	0.1831449	1.7849606	0.6951791	
0.1300580						
## [94,]	0.4179961	-1.38888755	-1.4610893	1.7849606	0.6951791	-
1.3542194						
## [95,]	0.4179961	1.51842111	-0.6389722	-1.3974051	-0.1137275	
0.1300580						
## [96,]	-0.3495967	1.51842111	1.8273791	0.9893691	0.6951791	-
0.6120807						
## [97,]	1.1855890	0.06476678	-1.4610893	-1.3974051	-1.7315407	
0.8721967						
## [98,]	-1.1171896	1.51842111	-0.6389722	-0.6018137	-1.7315407	-
1.3542194						
## [99,]	-1.1171896	-1.38888755	0.1831449	-0.6018137	-0.9226341	
1.6143354						
## [100,]	0.4179961	-0.66206039	1.0052620	-1.3974051	-0.9226341	-
1.3542194						
## [101,]	-0.3495967	0.79159394	1.0052620	0.1937777	-0.1137275	-
0.6120807						
## [102,]	1.1855890	-1.38888755	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [103,]	1.9531818	-1.38888755	1.0052620	1.7849606	1.5040857	
1.6143354						
## [104,]	-1.1171896	1.51842111	1.8273791	0.9893691	-0.1137275	-
0.6120807						
## [105,]	0.4179961	0.06476678	0.1831449	0.9893691	0.6951791	
0.8721967						
## [106,]	-1.1171896	-1.38888755	-0.6389722	0.1937777	-1.7315407	-
1.3542194						
## [107,]	-0.3495967	0.79159394	1.0052620	0.9893691	1.5040857	
0.1300580						
## [108,]	-1.1171896	-1.38888755	0.1831449	0.9893691	-0.9226341	
0.8721967						
## [109,]	0.4179961	-0.66206039	-1.4610893	-1.3974051	-0.9226341	
0.1300580						
## [110,]	0.4179961	-0.66206039	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [111,]	-1.1171896	-1.38888755	1.0052620	1.7849606	0.6951791	
0.8721967						
## [112,]	-0.3495967	0.06476678	0.1831449	0.9893691	0.6951791	
1.6143354						
## [113,]	-0.3495967	-1.38888755	0.1831449	0.9893691	-0.9226341	
0.1300580						
## [114,]	-1.1171896	0.06476678	-1.4610893	-1.3974051	-0.9226341	-
0.6120807						
## [115,]	0.4179961	-0.66206039	-0.6389722	-0.6018137	-0.1137275	
0.1300580						
## [116,]	-0.3495967	0.06476678	0.1831449	0.1937777	-0.9226341	
0.1300580						
## [117,]	-0.3495967	-1.38888755	-1.4610893	-0.6018137	0.6951791	
1.6143354						

## [118,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [119,]	1.1855890	-0.66206039	1.0052620	0.9893691	0.6951791	
0.8721967						
## [120,]	-1.1171896	-0.66206039	-0.6389722	-0.6018137	-0.9226341	-
1.3542194						
## [121,]	-0.3495967	-1.38888755	0.1831449	1.7849606	1.5040857	
0.1300580						
## [122,]	-0.3495967	0.79159394	-0.6389722	-0.6018137	0.6951791	-
1.3542194						
## [123,]	1.1855890	-1.38888755	0.1831449	0.9893691	0.6951791	
1.6143354						
## [124,]	-1.1171896	0.06476678	-1.4610893	1.7849606	1.5040857	
0.1300580						
## [125,]	0.4179961	-1.38888755	-0.6389722	0.9893691	1.5040857	-
0.6120807						
## [126,]	0.4179961	-0.66206039	1.0052620	1.7849606	-0.1137275	
0.8721967						
## [127,]	1.1855890	0.79159394	-1.4610893	-1.3974051	-1.7315407	-
0.6120807						
## [128,]	0.4179961	0.06476678	1.0052620	0.1937777	0.6951791	
0.8721967						
## [129,]	-1.1171896	-0.66206039	0.1831449	-1.3974051	1.5040857	
1.6143354						
## [130,]	-0.3495967	-0.66206039	0.1831449	0.9893691	-0.1137275	
0.8721967						
## [131,]	0.4179961	-1.38888755	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [132,]	-0.3495967	1.51842111	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [133,]	1.9531818	-0.66206039	1.0052620	0.1937777	-0.9226341	-
0.6120807						
## [134,]	-1.1171896	-1.38888755	-0.6389722	1.7849606	-1.7315407	-
1.3542194						
## [135,]	-1.1171896	0.79159394	1.0052620	0.9893691	0.6951791	
0.8721967						
## [136,]	1.1855890	0.06476678	1.8273791	0.9893691	0.6951791	
1.6143354						
## [137,]	-1.1171896	1.51842111	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [138,]	-0.3495967	0.79159394	0.1831449	1.7849606	0.6951791	
0.1300580						
## [139,]	-1.1171896	0.06476678	0.1831449	0.9893691	0.6951791	-
0.6120807						
## [140,]	-0.3495967	1.51842111	0.1831449	0.9893691	0.6951791	-
1.3542194						
## [141,]	-0.3495967	-0.66206039	-0.6389722	1.7849606	-0.1137275	-
0.6120807						
## [142,]	1.1855890	0.79159394	0.1831449	-1.3974051	-1.7315407	
1.6143354						

## [143,]	-1.1171896	0.06476678	-0.6389722	-1.3974051	-1.7315407	-
0.6120807						
## [144,]	0.4179961	1.51842111	1.0052620	-1.3974051	-1.7315407	
0.1300580						
## [145,]	0.4179961	-0.66206039	-0.6389722	-0.6018137	0.6951791	
0.1300580						
## [146,]	-1.1171896	-1.38888755	-0.6389722	-1.3974051	-1.7315407	
0.1300580						
## [147,]	1.1855890	1.51842111	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [148,]	0.4179961	1.51842111	-0.6389722	-0.6018137	-0.9226341	
0.8721967						
## [149,]	0.4179961	0.79159394	0.1831449	-0.6018137	0.6951791	
0.1300580						
## [150,]	-0.3495967	0.06476678	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [151,]	0.4179961	-1.38888755	-0.6389722	0.9893691	0.6951791	
0.1300580						
## [152,]	1.1855890	-0.66206039	1.8273791	0.9893691	0.6951791	
0.8721967						
## [153,]	-1.1171896	0.79159394	0.1831449	0.1937777	0.6951791	
0.1300580						
## [154,]	-0.3495967	0.79159394	-1.4610893	0.9893691	-0.9226341	-
1.3542194						
## [155,]	1.1855890	-0.66206039	-0.6389722	0.1937777	-0.1137275	
0.1300580						
## [156,]	0.4179961	0.06476678	-0.6389722	0.9893691	-0.1137275	
0.8721967						
## [157,]	1.9531818	0.06476678	1.8273791	-0.6018137	-0.1137275	
0.1300580						
## [158,]	1.1855890	-0.66206039	-0.6389722	-0.6018137	-1.7315407	-
0.6120807						
## [159,]	0.4179961	0.79159394	1.8273791	0.9893691	-0.1137275	
0.1300580						
## [160,]	0.4179961	0.06476678	1.0052620	0.1937777	-0.1137275	
0.8721967						
## [161,]	1.9531818	0.06476678	1.8273791	0.9893691	0.6951791	
1.6143354						
## [162,]	0.4179961	0.79159394	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [163,]	-1.1171896	1.51842111	1.0052620	0.1937777	-0.9226341	-
1.3542194						
## [164,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	
0.1300580						
## [165,]	0.4179961	-0.66206039	-0.6389722	0.9893691	0.6951791	
1.6143354						
## [166,]	-1.1171896	1.51842111	0.1831449	0.1937777	-0.9226341	-
1.3542194						
## [167,]	-0.3495967	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
0.6120807						

## [168,]	1.1855890	0.79159394	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [169,]	0.4179961	0.06476678	0.1831449	0.1937777	0.6951791	-
0.6120807						
## [170,]	0.4179961	-1.38888755	-1.4610893	0.1937777	-0.1137275	
0.8721967						
## [171,]	-0.3495967	-0.66206039	0.1831449	1.7849606	0.6951791	
1.6143354						
## [172,]	-1.1171896	0.79159394	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [173,]	1.9531818	-0.66206039	1.0052620	0.9893691	0.6951791	
0.8721967						
## [174,]	-1.1171896	-0.66206039	-1.4610893	-0.6018137	-0.1137275	-
0.6120807						
## [175,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [176,]	-0.3495967	0.06476678	1.0052620	0.9893691	0.6951791	-
0.6120807						
## [177,]	0.4179961	-0.66206039	1.0052620	0.1937777	1.5040857	
0.8721967						
## [178,]	0.4179961	-1.38888755	0.1831449	0.1937777	-0.1137275	
1.6143354						
## [179,]	0.4179961	-1.38888755	-0.6389722	-0.6018137	0.6951791	
0.1300580						
## [180,]	-1.1171896	-1.38888755	-1.4610893	0.9893691	-1.7315407	-
1.3542194						
## [181,]	1.9531818	-0.66206039	-0.6389722	-1.3974051	0.6951791	
0.8721967						
## [182,]	0.4179961	0.79159394	1.0052620	1.7849606	-0.1137275	
0.1300580						
## [183,]	0.4179961	-0.66206039	1.0052620	0.1937777	-0.9226341	
0.1300580						
## [184,]	-1.1171896	1.51842111	1.0052620	0.9893691	-0.1137275	
0.8721967						
## [185,]	-0.3495967	-1.38888755	-1.4610893	0.9893691	1.5040857	
1.6143354						
## [186,]	-1.1171896	0.79159394	0.1831449	0.1937777	0.6951791	-
1.3542194						
## [187,]	-1.1171896	-1.38888755	-1.4610893	0.1937777	-0.9226341	-
0.6120807						
## [188,]	-0.3495967	-1.38888755	-1.4610893	-0.6018137	-1.7315407	
1.6143354						
## [189,]	-1.1171896	0.06476678	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [190,]	1.1855890	-1.38888755	-1.4610893	-1.3974051	-0.1137275	-
0.6120807						
## [191,]	0.4179961	-0.66206039	0.1831449	-0.6018137	-0.1137275	
0.1300580						
## [192,]	-1.1171896	-1.38888755	0.1831449	0.9893691	-0.1137275	
0.8721967						

## [193,]	0.4179961	1.51842111	-0.6389722	-1.3974051	-0.1137275	-
0.6120807						
## [194,]	1.1855890	-1.38888755	0.1831449	0.1937777	1.5040857	
1.6143354						
## [195,]	1.1855890	-0.66206039	0.1831449	-1.3974051	1.5040857	
1.6143354						
## [196,]	-1.1171896	1.51842111	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [197,]	0.4179961	0.79159394	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [198,]	-1.1171896	0.06476678	-0.6389722	-0.6018137	-1.7315407	-
1.3542194						
## [199,]	1.9531818	1.51842111	1.0052620	-0.6018137	1.5040857	-
0.6120807						
## [200,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [201,]	0.4179961	1.51842111	1.0052620	0.1937777	0.6951791	-
0.6120807						
## [202,]	0.4179961	1.51842111	1.8273791	-1.3974051	1.5040857	
1.6143354						
## [203,]	-1.1171896	1.51842111	0.1831449	-1.3974051	-1.7315407	-
1.3542194						
## [204,]	0.4179961	0.06476678	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [205,]	1.1855890	-0.66206039	1.8273791	0.9893691	1.5040857	
0.8721967						
## [206,]	-1.1171896	-1.38888755	-1.4610893	0.9893691	1.5040857	
0.1300580						
## [207,]	0.4179961	-1.38888755	-0.6389722	0.9893691	0.6951791	
0.1300580						
## [208,]	1.1855890	-0.66206039	-0.6389722	0.1937777	0.6951791	-
0.6120807						
## [209,]	1.9531818	0.79159394	1.8273791	1.7849606	1.5040857	
0.1300580						
## [210,]	0.4179961	1.51842111	1.0052620	1.7849606	0.6951791	-
0.6120807						
## [211,]	0.4179961	0.79159394	1.0052620	0.9893691	1.5040857	
0.1300580						
## [212,]	-1.1171896	1.51842111	1.0052620	0.9893691	1.5040857	-
0.6120807						
## [213,]	0.4179961	0.06476678	-0.6389722	0.9893691	1.5040857	
1.6143354						
## [214,]	1.9531818	0.79159394	-0.6389722	-0.6018137	-0.9226341	
0.8721967						
## [215,]	0.4179961	-0.66206039	-0.6389722	1.7849606	1.5040857	
0.8721967						
## [216,]	-1.1171896	1.51842111	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [217,]	0.4179961	-0.66206039	-1.4610893	-1.3974051	-0.1137275	-
1.3542194						

## [218,]	-0.3495967	0.06476678	-1.4610893	-0.6018137	0.6951791	
0.8721967						
## [219,]	-1.1171896	0.79159394	0.1831449	-1.3974051	-0.9226341	-
0.6120807						
## [220,]	-1.1171896	1.51842111	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [221,]	-0.3495967	1.51842111	1.0052620	0.9893691	-0.9226341	
1.6143354						
## [222,]	1.1855890	1.51842111	1.8273791	1.7849606	0.6951791	
0.8721967						
## [223,]	0.4179961	-0.66206039	-1.4610893	0.9893691	-0.1137275	
0.1300580						
## [224,]	-1.1171896	0.79159394	0.1831449	0.9893691	-0.9226341	-
0.6120807						
## [225,]	1.1855890	0.06476678	0.1831449	-0.6018137	-0.1137275	
1.6143354						
## [226,]	1.1855890	0.06476678	1.0052620	0.9893691	1.5040857	
1.6143354						
## [227,]	0.4179961	1.51842111	0.1831449	-0.6018137	1.5040857	-
1.3542194						
## [228,]	0.4179961	-0.66206039	0.1831449	1.7849606	-0.1137275	
0.8721967						
## [229,]	-0.3495967	-1.38888755	-0.6389722	1.7849606	0.6951791	
0.8721967						
## [230,]	1.1855890	-0.66206039	1.8273791	0.1937777	-0.1137275	-
0.6120807						
## [231,]	0.4179961	0.79159394	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [232,]	0.4179961	-1.38888755	-0.6389722	0.1937777	1.5040857	-
1.3542194						
## [233,]	-0.3495967	0.06476678	1.0052620	1.7849606	-0.1137275	-
1.3542194						
## [234,]	1.1855890	0.79159394	1.0052620	-0.6018137	0.6951791	
0.1300580						
## [235,]	1.1855890	-0.66206039	1.0052620	-1.3974051	-0.1137275	
0.8721967						
## [236,]	-0.3495967	-1.38888755	-1.4610893	0.1937777	0.6951791	-
0.6120807						
## [237,]	0.4179961	-0.66206039	1.0052620	0.1937777	0.6951791	-
0.6120807						
## [238,]	-1.1171896	1.51842111	1.0052620	0.1937777	-0.9226341	-
0.6120807						
## [239,]	-1.1171896	1.51842111	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [240,]	0.4179961	0.06476678	0.1831449	0.9893691	0.6951791	
0.8721967						
## [241,]	-1.1171896	-0.66206039	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [242,]	-0.3495967	1.51842111	0.1831449	0.1937777	-0.1137275	
0.1300580						

## [243,]	-1.1171896	-1.38888755	-1.4610893	-0.6018137	-0.9226341	-
1.3542194						
## [244,]	1.1855890	-1.38888755	-0.6389722	0.9893691	1.5040857	
0.8721967						
## [245,]	0.4179961	-0.66206039	0.1831449	0.1937777	0.6951791	
0.1300580						
## [246,]	1.1855890	0.79159394	1.8273791	0.9893691	1.5040857	
1.6143354						
## [247,]	-0.3495967	0.06476678	1.0052620	0.9893691	0.6951791	-
1.3542194						
## [248,]	0.4179961	0.06476678	1.0052620	1.7849606	-0.1137275	
1.6143354						
## [249,]	0.4179961	0.79159394	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [250,]	1.1855890	-0.66206039	-0.6389722	0.9893691	0.6951791	
0.8721967						
## [251,]	-0.3495967	0.79159394	1.0052620	-0.6018137	-0.9226341	-
0.6120807						
## [252,]	1.1855890	0.79159394	1.0052620	0.1937777	-0.1137275	-
0.6120807						
## [253,]	-0.3495967	-0.66206039	-1.4610893	0.1937777	-0.9226341	
1.6143354						
## [254,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [255,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	1.5040857	-
0.6120807						
## [256,]	0.4179961	0.06476678	0.1831449	0.9893691	0.6951791	
0.8721967						
## [257,]	-1.1171896	0.06476678	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [258,]	-1.1171896	0.79159394	-0.6389722	0.1937777	-0.1137275	
0.1300580						
## [259,]	-0.3495967	-1.38888755	-1.4610893	0.9893691	-0.1137275	
1.6143354						
## [260,]	-0.3495967	-0.66206039	-1.4610893	0.1937777	1.5040857	-
0.6120807						
## [261,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [262,]	-0.3495967	-0.66206039	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [263,]	-1.1171896	0.06476678	0.1831449	1.7849606	-0.1137275	
1.6143354						
## [264,]	-0.3495967	0.79159394	0.1831449	-0.6018137	0.6951791	
0.1300580						
## [265,]	0.4179961	1.51842111	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [266,]	-1.1171896	0.79159394	0.1831449	0.1937777	-0.9226341	-
1.3542194						
## [267,]	-1.1171896	-0.66206039	-0.6389722	0.9893691	-0.1137275	-
1.3542194						

## [268,]	1.1855890	0.06476678	-0.6389722	-0.6018137	-0.1137275	-
0.6120807						
## [269,]	-1.1171896	-0.66206039	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [270,]	1.1855890	-1.38888755	-1.4610893	-1.3974051	-0.1137275	-
0.6120807						
## [271,]	1.9531818	1.51842111	1.8273791	1.7849606	1.5040857	
1.6143354						
## [272,]	1.9531818	1.51842111	1.8273791	0.9893691	1.5040857	
0.8721967						
## [273,]	1.9531818	-0.66206039	1.8273791	0.9893691	-0.1137275	
1.6143354						
## [274,]	1.1855890	0.79159394	1.0052620	1.7849606	0.6951791	
0.8721967						
## [275,]	-1.1171896	0.79159394	0.1831449	-0.6018137	0.6951791	-
1.3542194						
## [276,]	0.4179961	-0.66206039	-0.6389722	0.9893691	-0.1137275	
0.1300580						
## [277,]	0.4179961	-1.38888755	-1.4610893	-1.3974051	0.6951791	
0.1300580						
## [278,]	-1.1171896	-0.66206039	-0.6389722	0.1937777	1.5040857	-
1.3542194						
## [279,]	0.4179961	1.51842111	1.8273791	-0.6018137	-0.1137275	
1.6143354						
## [280,]	0.4179961	0.06476678	0.1831449	-1.3974051	-1.7315407	-
1.3542194						
## [281,]	0.4179961	-0.66206039	0.1831449	-0.6018137	-0.9226341	
0.8721967						
## [282,]	1.9531818	0.79159394	1.0052620	1.7849606	1.5040857	-
0.6120807						
## [283,]	-1.1171896	-1.38888755	-0.6389722	-1.3974051	-0.9226341	-
0.6120807						
## [284,]	1.1855890	0.79159394	1.8273791	1.7849606	-0.1137275	-
0.6120807						
## [285,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [286,]	-1.1171896	0.06476678	-1.4610893	-0.6018137	-1.7315407	-
1.3542194						
## [287,]	0.4179961	1.51842111	1.8273791	0.1937777	-0.1137275	
0.8721967						
## [288,]	1.1855890	0.79159394	-1.4610893	0.1937777	-0.1137275	
0.8721967						
## [289,]	-1.1171896	0.79159394	1.0052620	-0.6018137	-0.1137275	-
1.3542194						
## [290,]	-0.3495967	0.79159394	-1.4610893	-0.6018137	0.6951791	-
1.3542194						
## [291,]	-1.1171896	0.79159394	0.1831449	0.9893691	0.6951791	
0.1300580						
## [292,]	1.1855890	0.06476678	1.0052620	0.1937777	0.6951791	
0.1300580						

## [293,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [294,]	1.9531818	-1.38888755	1.0052620	0.1937777	-0.1137275	
1.6143354						
## [295,]	1.1855890	0.06476678	1.0052620	0.9893691	-0.1137275	
0.8721967						
## [296,]	-0.3495967	-0.66206039	1.0052620	0.1937777	1.5040857	
1.6143354						
## [297,]	-0.3495967	-0.66206039	1.0052620	-1.3974051	-0.1137275	
0.1300580						
## [298,]	0.4179961	-1.38888755	0.1831449	0.1937777	-0.9226341	
0.8721967						
## [299,]	-1.1171896	1.51842111	1.0052620	0.9893691	1.5040857	-
1.3542194						
## [300,]	0.4179961	1.51842111	1.8273791	0.1937777	-0.9226341	-
0.6120807						
## [301,]	0.4179961	-1.38888755	-1.4610893	0.1937777	-0.1137275	
1.6143354						
## [302,]	-1.1171896	-1.38888755	-1.4610893	-0.6018137	-1.7315407	-
0.6120807						
## [303,]	-0.3495967	1.51842111	0.1831449	-1.3974051	0.6951791	-
1.3542194						
## [304,]	-0.3495967	0.79159394	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [305,]	-1.1171896	-0.66206039	0.1831449	-0.6018137	-0.9226341	-
1.3542194						
## [306,]	0.4179961	-0.66206039	-0.6389722	0.1937777	0.6951791	
1.6143354						
## [307,]	1.1855890	0.79159394	1.8273791	1.7849606	1.5040857	
1.6143354						
## [308,]	0.4179961	-1.38888755	-1.4610893	1.7849606	1.5040857	
0.1300580						
## [309,]	-1.1171896	0.06476678	-1.4610893	-1.3974051	-1.7315407	-
0.6120807						
## [310,]	-1.1171896	0.79159394	-1.4610893	-1.3974051	0.6951791	-
0.6120807						
## [311,]	-1.1171896	-1.38888755	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [312,]	-0.3495967	1.51842111	1.8273791	1.7849606	-0.1137275	
0.1300580						
## [313,]	-0.3495967	0.06476678	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [314,]	-1.1171896	0.79159394	-1.4610893	0.1937777	0.6951791	-
0.6120807						
## [315,]	1.9531818	-0.66206039	1.8273791	1.7849606	1.5040857	
1.6143354						
## [316,]	-1.1171896	-0.66206039	-1.4610893	-1.3974051	-1.7315407	-
0.6120807						
## [317,]	-0.3495967	0.06476678	-0.6389722	-1.3974051	-1.7315407	-
0.6120807						

## [318,]	-0.3495967	-0.66206039	-1.4610893	-0.6018137	-0.1137275	
0.1300580						
## [319,]	0.4179961	0.06476678	-0.6389722	0.9893691	0.6951791	
0.1300580						
## [320,]	-0.3495967	0.06476678	0.1831449	0.9893691	-0.1137275	
0.8721967						
## [321,]	0.4179961	-0.66206039	0.1831449	-0.6018137	-0.9226341	
1.6143354						
## [322,]	-0.3495967	1.51842111	-0.6389722	0.1937777	1.5040857	
0.1300580						
## [323,]	1.9531818	-1.38888755	0.1831449	0.1937777	1.5040857	
1.6143354						
## [324,]	0.4179961	-1.38888755	-1.4610893	-1.3974051	-0.1137275	-
1.3542194						
## [325,]	0.4179961	-0.66206039	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [326,]	1.1855890	1.51842111	1.8273791	-0.6018137	0.6951791	
0.1300580						
## [327,]	-0.3495967	-0.66206039	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [328,]	-1.1171896	1.51842111	1.0052620	0.1937777	0.6951791	-
0.6120807						
## [329,]	1.9531818	-0.66206039	1.0052620	0.1937777	-0.9226341	
1.6143354						
## [330,]	-0.3495967	0.79159394	-0.6389722	-0.6018137	-0.1137275	-
0.6120807						
## [331,]	0.4179961	0.06476678	-0.6389722	0.1937777	-0.1137275	
0.8721967						
## [332,]	-0.3495967	1.51842111	-1.4610893	1.7849606	1.5040857	-
1.3542194						
## [333,]	-1.1171896	-0.66206039	0.1831449	-1.3974051	-1.7315407	-
1.3542194						
## [334,]	-0.3495967	0.06476678	-0.6389722	0.1937777	-0.1137275	-
0.6120807						
## [335,]	-0.3495967	-0.66206039	-0.6389722	0.9893691	-1.7315407	
0.8721967						
## [336,]	-0.3495967	0.79159394	1.0052620	0.9893691	-0.1137275	-
0.6120807						
## [337,]	-0.3495967	0.06476678	0.1831449	0.1937777	-0.9226341	
0.1300580						
## [338,]	-1.1171896	1.51842111	-0.6389722	-0.6018137	-1.7315407	-
0.6120807						
## [339,]	-0.3495967	-0.66206039	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [340,]	1.9531818	-1.38888755	0.1831449	0.1937777	1.5040857	
1.6143354						
## [341,]	-0.3495967	0.06476678	0.1831449	-0.6018137	-0.9226341	
0.8721967						
## [342,]	-0.3495967	1.51842111	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						

## [343,]	-0.3495967	0.79159394	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [344,]	-0.3495967	-1.38888755	-0.6389722	-0.6018137	1.5040857	-
0.6120807						
## [345,]	-1.1171896	-0.66206039	-1.4610893	-1.3974051	0.6951791	
0.1300580						
## [346,]	1.1855890	-0.66206039	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [347,]	-1.1171896	1.51842111	1.8273791	-1.3974051	-0.1137275	-
1.3542194						
## [348,]	1.1855890	-0.66206039	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [349,]	-1.1171896	-1.38888755	-0.6389722	1.7849606	1.5040857	
0.1300580						
## [350,]	-1.1171896	0.06476678	-0.6389722	0.1937777	-0.1137275	-
1.3542194						
## [351,]	0.4179961	-0.66206039	0.1831449	-1.3974051	-1.7315407	
0.1300580						
## [352,]	1.1855890	-1.38888755	1.0052620	0.9893691	0.6951791	
1.6143354						
## [353,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	1.5040857	-
1.3542194						
## [354,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	-0.1137275	
1.6143354						
## [355,]	0.4179961	0.06476678	-0.6389722	-0.6018137	-0.9226341	
0.1300580						
## [356,]	-1.1171896	1.51842111	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [357,]	-0.3495967	0.79159394	1.0052620	0.1937777	0.6951791	-
0.6120807						
## [358,]	0.4179961	1.51842111	-0.6389722	-0.6018137	-1.7315407	-
1.3542194						
## [359,]	-1.1171896	0.06476678	0.1831449	0.1937777	0.6951791	-
1.3542194						
## [360,]	-0.3495967	0.79159394	1.0052620	-0.6018137	-0.1137275	-
1.3542194						
## [361,]	-1.1171896	1.51842111	1.8273791	0.1937777	0.6951791	
0.1300580						
## [362,]	-0.3495967	0.06476678	1.0052620	1.7849606	-1.7315407	-
1.3542194						
## [363,]	1.9531818	-0.66206039	1.0052620	-0.6018137	0.6951791	
0.1300580						
## [364,]	1.9531818	-0.66206039	1.0052620	-1.3974051	0.6951791	
0.8721967						
## [365,]	0.4179961	0.06476678	0.1831449	-0.6018137	0.6951791	
0.1300580						
## [366,]	1.9531818	-1.38888755	1.8273791	0.9893691	1.5040857	
1.6143354						
## [367,]	-0.3495967	0.06476678	0.1831449	-1.3974051	-1.7315407	-
1.3542194						

## [368,]	1.1855890	-1.38888755	-0.6389722	1.7849606	1.5040857	
1.6143354						
## [369,]	-1.1171896	0.06476678	1.0052620	0.1937777	-0.1137275	-
1.3542194						
## [370,]	-0.3495967	0.06476678	-0.6389722	-1.3974051	-0.9226341	
0.1300580						
## [371,]	0.4179961	0.79159394	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [372,]	0.4179961	-0.66206039	-0.6389722	1.7849606	1.5040857	
0.1300580						
## [373,]	1.9531818	-1.38888755	1.0052620	-0.6018137	-0.1137275	
0.8721967						
## [374,]	-1.1171896	-0.66206039	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [375,]	-1.1171896	0.06476678	0.1831449	-0.6018137	-0.9226341	-
1.3542194						
## [376,]	-0.3495967	1.51842111	-0.6389722	-0.6018137	-1.7315407	-
1.3542194						
## [377,]	-1.1171896	1.51842111	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [378,]	0.4179961	-1.38888755	0.1831449	0.9893691	0.6951791	
1.6143354						
## [379,]	-1.1171896	0.79159394	1.8273791	-1.3974051	-0.9226341	-
0.6120807						
## [380,]	-0.3495967	0.06476678	0.1831449	0.9893691	-0.1137275	-
0.6120807						
## [381,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	0.6951791	-
0.6120807						
## [382,]	0.4179961	-1.38888755	-1.4610893	0.1937777	-0.1137275	
0.1300580						
## [383,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-0.9226341	-
0.6120807						
## [384,]	1.1855890	0.06476678	0.1831449	0.1937777	-0.1137275	
1.6143354						
## [385,]	0.4179961	0.79159394	1.0052620	0.9893691	0.6951791	
1.6143354						
## [386,]	0.4179961	0.79159394	1.8273791	1.7849606	1.5040857	
0.8721967						
## [387,]	0.4179961	1.51842111	1.0052620	-0.6018137	-0.1137275	
0.1300580						
## [388,]	-1.1171896	1.51842111	1.8273791	0.1937777	-0.1137275	-
0.6120807						
## [389,]	0.4179961	0.79159394	1.8273791	1.7849606	0.6951791	
0.1300580						
## [390,]	-1.1171896	-0.66206039	-0.6389722	0.9893691	-0.1137275	-
0.6120807						
## [391,]	-0.3495967	-0.66206039	-0.6389722	0.1937777	-0.1137275	
0.8721967						
## [392,]	-1.1171896	0.06476678	0.1831449	0.1937777	-0.1137275	-
0.6120807						

## [393,]	-1.1171896	1.51842111	0.1831449	-1.3974051	-0.9226341	-
0.6120807						
## [394,]	0.4179961	-0.66206039	-1.4610893	-1.3974051	-0.9226341	-
0.6120807						
## [395,]	-1.1171896	-1.38888755	-0.6389722	-0.6018137	-0.1137275	-
0.6120807						
## [396,]	0.4179961	0.06476678	-0.6389722	-0.6018137	0.6951791	
1.6143354						
## [397,]	-1.1171896	-0.66206039	0.1831449	0.9893691	-0.1137275	-
1.3542194						
## [398,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [399,]	0.4179961	1.51842111	1.8273791	0.1937777	0.6951791	
0.1300580						
## [400,]	1.1855890	-0.66206039	1.0052620	0.1937777	-0.1137275	
0.8721967						
## [401,]	-1.1171896	0.06476678	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [402,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.9226341	-
0.6120807						
## [403,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
0.6120807						
## [404,]	-0.3495967	-0.66206039	1.0052620	-0.6018137	0.6951791	
0.1300580						
## [405,]	1.9531818	0.06476678	-0.6389722	-0.6018137	1.5040857	
1.6143354						
## [406,]	-0.3495967	0.79159394	-0.6389722	0.9893691	-0.1137275	
0.1300580						
## [407,]	-1.1171896	0.06476678	0.1831449	0.9893691	0.6951791	-
1.3542194						
## [408,]	0.4179961	0.06476678	0.1831449	1.7849606	-0.1137275	-
0.6120807						
## [409,]	-1.1171896	-1.38888755	-1.4610893	0.9893691	1.5040857	
0.1300580						
## [410,]	0.4179961	0.79159394	-0.6389722	0.1937777	0.6951791	
0.1300580						
## [411,]	1.9531818	0.79159394	-1.4610893	-1.3974051	1.5040857	
0.1300580						
## [412,]	-1.1171896	0.79159394	-0.6389722	0.9893691	-0.1137275	-
1.3542194						
## [413,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [414,]	1.1855890	-0.66206039	-0.6389722	-0.6018137	0.6951791	-
0.6120807						
## [415,]	-1.1171896	0.06476678	-0.6389722	0.1937777	0.6951791	
0.8721967						
## [416,]	-0.3495967	0.79159394	-0.6389722	-1.3974051	1.5040857	
0.1300580						
## [417,]	-0.3495967	0.06476678	-0.6389722	-0.6018137	-0.9226341	-
1.3542194						

## [418,]	1.9531818	-1.38888755	1.8273791	-1.3974051	0.6951791	
0.8721967						
## [419,]	-1.1171896	-1.38888755	-0.6389722	-1.3974051	-0.9226341	-
0.6120807						
## [420,]	-1.1171896	0.06476678	0.1831449	0.9893691	1.5040857	
1.6143354						
## [421,]	1.9531818	-1.38888755	0.1831449	-0.6018137	-1.7315407	-
1.3542194						
## [422,]	-1.1171896	-0.66206039	-0.6389722	1.7849606	-0.1137275	-
0.6120807						
## [423,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [424,]	0.4179961	-1.38888755	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [425,]	-1.1171896	1.51842111	1.0052620	0.9893691	-1.7315407	-
1.3542194						
## [426,]	1.9531818	0.06476678	1.0052620	0.1937777	0.6951791	
1.6143354						
## [427,]	-1.1171896	-1.38888755	0.1831449	0.9893691	0.6951791	
0.8721967						
## [428,]	-0.3495967	-0.66206039	0.1831449	1.7849606	-0.1137275	
1.6143354						
## [429,]	1.1855890	0.06476678	-0.6389722	-0.6018137	-0.9226341	-
1.3542194						
## [430,]	1.1855890	-0.66206039	-1.4610893	-0.6018137	-0.1137275	
1.6143354						
## [431,]	-0.3495967	-0.66206039	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [432,]	-1.1171896	0.06476678	0.1831449	0.1937777	-0.9226341	-
0.6120807						
## [433,]	0.4179961	0.06476678	0.1831449	0.1937777	0.6951791	
1.6143354						
## [434,]	1.1855890	-0.66206039	-0.6389722	-0.6018137	-0.1137275	
1.6143354						
## [435,]	-1.1171896	0.79159394	0.1831449	0.1937777	-0.9226341	-
1.3542194						
## [436,]	0.4179961	-0.66206039	-1.4610893	-1.3974051	1.5040857	
0.1300580						
## [437,]	-0.3495967	-0.66206039	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [438,]	-0.3495967	0.06476678	-1.4610893	-1.3974051	-0.1137275	-
1.3542194						
## [439,]	1.1855890	0.79159394	0.1831449	-1.3974051	-0.9226341	-
1.3542194						
## [440,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	-0.1137275	
0.1300580						
## [441,]	-1.1171896	0.06476678	0.1831449	0.1937777	0.6951791	
0.1300580						
## [442,]	0.4179961	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						

## [443,]	1.1855890	0.06476678	1.0052620	0.9893691	0.6951791	-
0.6120807						
## [444,]	-0.3495967	0.06476678	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [445,]	1.1855890	-0.66206039	1.8273791	0.9893691	1.5040857	
1.6143354						
## [446,]	-1.1171896	0.79159394	-0.6389722	0.1937777	-0.9226341	-
0.6120807						
## [447,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [448,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [449,]	-1.1171896	0.79159394	-1.4610893	-0.6018137	0.6951791	
0.1300580						
## [450,]	-0.3495967	-0.66206039	0.1831449	0.1937777	1.5040857	-
0.6120807						
## [451,]	-1.1171896	-0.66206039	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [452,]	-1.1171896	0.06476678	-0.6389722	0.1937777	-0.9226341	-
0.6120807						
## [453,]	0.4179961	0.06476678	0.1831449	-0.6018137	0.6951791	
0.1300580						
## [454,]	-0.3495967	-0.66206039	0.1831449	0.1937777	1.5040857	-
0.6120807						
## [455,]	1.1855890	0.06476678	1.8273791	0.9893691	0.6951791	
0.8721967						
## [456,]	1.9531818	0.06476678	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [457,]	1.1855890	1.51842111	1.8273791	-1.3974051	-0.9226341	
0.1300580						
## [458,]	0.4179961	-0.66206039	-0.6389722	-0.6018137	-0.1137275	
0.1300580						
## [459,]	-1.1171896	1.51842111	-1.4610893	-1.3974051	1.5040857	
1.6143354						
## [460,]	0.4179961	-1.38888755	1.0052620	0.1937777	-0.1137275	
1.6143354						
## [461,]	1.1855890	1.51842111	1.8273791	-1.3974051	-1.7315407	
0.1300580						
## [462,]	-1.1171896	-1.38888755	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [463,]	1.1855890	0.06476678	0.1831449	0.1937777	-0.1137275	
0.8721967						
## [464,]	-1.1171896	0.06476678	0.1831449	-1.3974051	-1.7315407	
1.6143354						
## [465,]	1.1855890	-0.66206039	0.1831449	-0.6018137	0.6951791	-
0.6120807						
## [466,]	-0.3495967	-0.66206039	1.0052620	0.9893691	-0.9226341	
0.1300580						
## [467,]	-1.1171896	0.79159394	-1.4610893	0.1937777	-0.1137275	-
1.3542194						

## [468,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-0.9226341	-
0.6120807						
## [469,]	-0.3495967	1.51842111	1.0052620	0.9893691	1.5040857	-
0.6120807						
## [470,]	0.4179961	0.79159394	1.0052620	-0.6018137	1.5040857	
0.8721967						
## [471,]	-1.1171896	0.06476678	0.1831449	-0.6018137	-0.1137275	-
1.3542194						
## [472,]	1.9531818	-0.66206039	1.8273791	0.1937777	0.6951791	
1.6143354						
## [473,]	-0.3495967	-1.38888755	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [474,]	0.4179961	-1.38888755	-1.4610893	-1.3974051	-1.7315407	
0.8721967						
## [475,]	-1.1171896	1.51842111	-0.6389722	-1.3974051	-1.7315407	
0.1300580						
## [476,]	1.1855890	0.06476678	1.0052620	0.1937777	1.5040857	
0.1300580						
## [477,]	0.4179961	0.06476678	0.1831449	1.7849606	1.5040857	
1.6143354						
## [478,]	0.4179961	-1.38888755	-0.6389722	0.1937777	1.5040857	
1.6143354						
## [479,]	-0.3495967	-0.66206039	-0.6389722	-0.6018137	0.6951791	
0.8721967						
## [480,]	1.1855890	0.06476678	0.1831449	0.9893691	0.6951791	-
1.3542194						
## [481,]	0.4179961	0.79159394	0.1831449	0.9893691	1.5040857	
0.8721967						
## [482,]	-1.1171896	-1.38888755	-1.4610893	0.9893691	0.6951791	
0.8721967						
## [483,]	1.1855890	0.79159394	1.0052620	0.1937777	-1.7315407	-
1.3542194						
## [484,]	1.9531818	0.06476678	-0.6389722	0.9893691	-0.1137275	-
1.3542194						
## [485,]	0.4179961	0.06476678	0.1831449	0.9893691	-0.9226341	-
0.6120807						
## [486,]	-1.1171896	-1.38888755	0.1831449	1.7849606	0.6951791	
0.8721967						
## [487,]	-1.1171896	0.06476678	-0.6389722	0.1937777	-0.1137275	
0.1300580						
## [488,]	1.1855890	1.51842111	1.0052620	-0.6018137	-0.9226341	
0.1300580						
## [489,]	-0.3495967	0.06476678	0.1831449	1.7849606	1.5040857	
0.8721967						
## [490,]	1.9531818	0.06476678	1.8273791	-0.6018137	1.5040857	
1.6143354						
## [491,]	-1.1171896	1.51842111	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [492,]	0.4179961	0.06476678	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						

## [493,]	-0.3495967	-1.38888755	-0.6389722	0.1937777	0.6951791	
1.6143354						
## [494,]	-1.1171896	1.51842111	-0.6389722	-0.6018137	-0.1137275	
0.1300580						
## [495,]	-0.3495967	-1.38888755	1.0052620	1.7849606	0.6951791	
1.6143354						
## [496,]	1.1855890	-0.66206039	-0.6389722	-1.3974051	1.5040857	
1.6143354						
## [497,]	-1.1171896	-0.66206039	-0.6389722	-0.6018137	0.6951791	
0.1300580						
## [498,]	0.4179961	-1.38888755	0.1831449	1.7849606	1.5040857	-
1.3542194						
## [499,]	-1.1171896	-1.38888755	0.1831449	-0.6018137	-0.1137275	
1.6143354						
## [500,]	1.1855890	-1.38888755	0.1831449	-1.3974051	-0.1137275	
0.1300580						
## [501,]	-1.1171896	-1.38888755	-0.6389722	-0.6018137	0.6951791	
1.6143354						
## [502,]	-0.3495967	-0.66206039	-0.6389722	0.9893691	0.6951791	-
0.6120807						
## [503,]	1.1855890	0.06476678	0.1831449	0.9893691	1.5040857	
0.1300580						
## [504,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [505,]	-1.1171896	1.51842111	-0.6389722	-1.3974051	-0.9226341	-
0.6120807						
## [506,]	1.1855890	0.06476678	0.1831449	-0.6018137	0.6951791	
0.8721967						
## [507,]	0.4179961	1.51842111	-1.4610893	-1.3974051	-1.7315407	-
0.6120807						
## [508,]	-1.1171896	-0.66206039	1.8273791	0.9893691	0.6951791	
0.8721967						
## [509,]	0.4179961	-1.38888755	0.1831449	0.1937777	1.5040857	
1.6143354						
## [510,]	-1.1171896	0.79159394	0.1831449	0.1937777	-1.7315407	-
0.6120807						
## [511,]	-0.3495967	0.79159394	1.0052620	0.9893691	-0.1137275	
0.1300580						
## [512,]	-1.1171896	0.79159394	1.0052620	0.9893691	-0.1137275	
0.1300580						
## [513,]	-1.1171896	-1.38888755	-1.4610893	-0.6018137	-1.7315407	
0.1300580						
## [514,]	1.9531818	0.06476678	-0.6389722	-1.3974051	-0.1137275	
0.1300580						
## [515,]	-1.1171896	-1.38888755	-0.6389722	-1.3974051	1.5040857	
0.1300580						
## [516,]	0.4179961	-1.38888755	-0.6389722	0.1937777	-0.1137275	
0.8721967						
## [517,]	0.4179961	1.51842111	0.1831449	-0.6018137	-0.1137275	
0.1300580						

## [518,]	0.4179961	0.79159394	0.1831449	-1.3974051	-1.7315407	
0.1300580						
## [519,]	-0.3495967	0.79159394	0.1831449	0.1937777	-0.9226341	-
0.6120807						
## [520,]	-1.1171896	0.79159394	1.0052620	-0.6018137	-0.9226341	-
0.6120807						
## [521,]	-1.1171896	0.79159394	1.0052620	-0.6018137	-0.9226341	-
0.6120807						
## [522,]	-0.3495967	0.06476678	0.1831449	0.9893691	0.6951791	-
0.6120807						
## [523,]	-0.3495967	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [524,]	-1.1171896	-0.66206039	0.1831449	0.1937777	0.6951791	-
0.6120807						
## [525,]	1.9531818	-0.66206039	1.8273791	-0.6018137	-0.1137275	
1.6143354						
## [526,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [527,]	1.1855890	1.51842111	1.8273791	0.1937777	0.6951791	
0.1300580						
## [528,]	1.9531818	-0.66206039	1.0052620	0.9893691	0.6951791	
0.8721967						
## [529,]	-0.3495967	1.51842111	-1.4610893	0.1937777	1.5040857	-
1.3542194						
## [530,]	-0.3495967	-1.38888755	-1.4610893	-0.6018137	-0.1137275	
0.8721967						
## [531,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	
0.8721967						
## [532,]	0.4179961	-1.38888755	-0.6389722	0.1937777	1.5040857	
1.6143354						
## [533,]	-1.1171896	-0.66206039	1.0052620	1.7849606	-0.1137275	
0.1300580						
## [534,]	0.4179961	-0.66206039	-0.6389722	0.1937777	1.5040857	
1.6143354						
## [535,]	-1.1171896	0.79159394	1.0052620	0.9893691	-0.1137275	-
0.6120807						
## [536,]	1.1855890	0.79159394	0.1831449	0.9893691	1.5040857	-
1.3542194						
## [537,]	-1.1171896	1.51842111	0.1831449	-1.3974051	-1.7315407	-
1.3542194						
## [538,]	0.4179961	0.06476678	0.1831449	-1.3974051	-0.1137275	
1.6143354						
## [539,]	1.1855890	0.79159394	-0.6389722	-1.3974051	-0.1137275	
0.1300580						
## [540,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.1137275	
0.8721967						
## [541,]	-0.3495967	0.79159394	1.0052620	-0.6018137	1.5040857	
0.1300580						
## [542,]	-0.3495967	0.79159394	0.1831449	-0.6018137	-0.9226341	-
0.6120807						

## [543,]	1.9531818	1.51842111	1.8273791	0.9893691	-0.1137275	
1.6143354						
## [544,]	0.4179961	0.06476678	-0.6389722	1.7849606	0.6951791	
0.8721967						
## [545,]	0.4179961	-0.66206039	-0.6389722	-0.6018137	0.6951791	
1.6143354						
## [546,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [547,]	0.4179961	-0.66206039	1.8273791	1.7849606	1.5040857	
0.8721967						
## [548,]	-0.3495967	-0.66206039	-0.6389722	-1.3974051	0.6951791	
0.1300580						
## [549,]	-0.3495967	-1.38888755	-0.6389722	-1.3974051	0.6951791	
0.8721967						
## [550,]	-1.1171896	1.51842111	0.1831449	0.1937777	-1.7315407	-
0.6120807						
## [551,]	-0.3495967	-1.38888755	0.1831449	0.1937777	1.5040857	
0.8721967						
## [552,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [553,]	-1.1171896	-1.38888755	1.0052620	1.7849606	-0.1137275	
1.6143354						
## [554,]	-1.1171896	0.06476678	-1.4610893	-1.3974051	-1.7315407	
0.1300580						
## [555,]	-0.3495967	0.06476678	-1.4610893	-0.6018137	-0.1137275	-
0.6120807						
## [556,]	-0.3495967	0.79159394	1.8273791	0.1937777	-1.7315407	-
0.6120807						
## [557,]	-1.1171896	0.79159394	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [558,]	-0.3495967	-0.66206039	1.0052620	0.9893691	0.6951791	
0.1300580						
## [559,]	-1.1171896	-1.38888755	-0.6389722	-0.6018137	-0.1137275	-
0.6120807						
## [560,]	-1.1171896	1.51842111	0.1831449	-1.3974051	-0.9226341	-
1.3542194						
## [561,]	1.1855890	0.79159394	1.0052620	0.1937777	0.6951791	
0.1300580						
## [562,]	0.4179961	1.51842111	0.1831449	0.9893691	0.6951791	-
0.6120807						
## [563,]	0.4179961	1.51842111	-1.4610893	-0.6018137	-0.9226341	-
0.6120807						
## [564,]	0.4179961	1.51842111	0.1831449	-1.3974051	-0.1137275	
0.1300580						
## [565,]	1.9531818	0.06476678	0.1831449	-1.3974051	-0.9226341	-
1.3542194						
## [566,]	-0.3495967	-0.66206039	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [567,]	-1.1171896	0.79159394	0.1831449	-1.3974051	-0.9226341	-
1.3542194						

## [568,]	-0.3495967	0.06476678	1.0052620	-0.6018137	-0.1137275	-
0.6120807						
## [569,]	-1.1171896	0.06476678	-1.4610893	-1.3974051	-1.7315407	
0.1300580						
## [570,]	-0.3495967	-0.66206039	0.1831449	-1.3974051	-0.9226341	
0.1300580						
## [571,]	-0.3495967	-0.66206039	-1.4610893	-1.3974051	-0.1137275	-
0.6120807						
## [572,]	-0.3495967	1.51842111	0.1831449	-0.6018137	-1.7315407	-
1.3542194						
## [573,]	-1.1171896	-0.66206039	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [574,]	0.4179961	0.06476678	-1.4610893	-1.3974051	-0.1137275	
0.8721967						
## [575,]	-1.1171896	0.06476678	-0.6389722	-1.3974051	-1.7315407	-
0.6120807						
## [576,]	0.4179961	-0.66206039	-0.6389722	0.1937777	-0.1137275	
0.8721967						
## [577,]	-0.3495967	1.51842111	1.8273791	-0.6018137	-0.9226341	-
0.6120807						
## [578,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [579,]	-1.1171896	0.79159394	0.1831449	-0.6018137	0.6951791	
0.1300580						
## [580,]	0.4179961	0.06476678	-0.6389722	1.7849606	1.5040857	
0.1300580						
## [581,]	-1.1171896	1.51842111	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [582,]	1.1855890	0.79159394	1.8273791	0.1937777	-0.9226341	
1.6143354						
## [583,]	-1.1171896	0.79159394	1.0052620	0.9893691	-0.1137275	
0.1300580						
## [584,]	-1.1171896	1.51842111	0.1831449	0.9893691	0.6951791	-
0.6120807						
## [585,]	-1.1171896	-0.66206039	0.1831449	0.1937777	-0.1137275	-
1.3542194						
## [586,]	-1.1171896	0.06476678	-0.6389722	0.9893691	0.6951791	
0.1300580						
## [587,]	-0.3495967	-1.38888755	0.1831449	-0.6018137	-1.7315407	
1.6143354						
## [588,]	1.9531818	0.06476678	1.0052620	-1.3974051	-0.1137275	-
0.6120807						
## [589,]	-1.1171896	0.79159394	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [590,]	1.9531818	-1.38888755	-0.6389722	-1.3974051	1.5040857	
0.1300580						
## [591,]	0.4179961	-1.38888755	1.0052620	0.9893691	1.5040857	
0.1300580						
## [592,]	-1.1171896	0.79159394	-0.6389722	0.9893691	-0.9226341	-
0.6120807						

## [593,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [594,]	-0.3495967	-0.66206039	1.0052620	0.1937777	-0.1137275	
0.8721967						
## [595,]	1.1855890	-0.66206039	-0.6389722	0.9893691	-1.7315407	
1.6143354						
## [596,]	1.9531818	-1.38888755	1.0052620	-1.3974051	-0.9226341	-
1.3542194						
## [597,]	-1.1171896	0.79159394	1.0052620	-0.6018137	-0.9226341	-
0.6120807						
## [598,]	0.4179961	0.79159394	-0.6389722	-0.6018137	0.6951791	
0.1300580						
## [599,]	1.1855890	0.79159394	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [600,]	0.4179961	0.79159394	1.0052620	-0.6018137	0.6951791	
0.8721967						
## [601,]	0.4179961	1.51842111	1.8273791	-0.6018137	-0.9226341	
0.8721967						
## [602,]	-0.3495967	-1.38888755	-1.4610893	0.9893691	1.5040857	
1.6143354						
## [603,]	-0.3495967	0.06476678	-1.4610893	0.9893691	0.6951791	
0.1300580						
## [604,]	-0.3495967	1.51842111	0.1831449	0.9893691	-0.9226341	
0.8721967						
## [605,]	1.9531818	0.79159394	1.0052620	-0.6018137	-0.9226341	
1.6143354						
## [606,]	1.1855890	-1.38888755	0.1831449	0.1937777	0.6951791	-
1.3542194						
## [607,]	-0.3495967	-0.66206039	-1.4610893	-0.6018137	-0.1137275	-
0.6120807						
## [608,]	0.4179961	-1.38888755	0.1831449	0.1937777	0.6951791	-
1.3542194						
## [609,]	1.1855890	0.79159394	1.0052620	0.9893691	0.6951791	
0.8721967						
## [610,]	-0.3495967	1.51842111	-0.6389722	0.1937777	-0.9226341	
0.1300580						
## [611,]	-0.3495967	-0.66206039	-0.6389722	0.9893691	1.5040857	
0.8721967						
## [612,]	-1.1171896	0.06476678	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [613,]	0.4179961	0.79159394	1.0052620	0.1937777	-0.9226341	
0.1300580						
## [614,]	-1.1171896	1.51842111	-0.6389722	0.9893691	-0.1137275	
0.8721967						
## [615,]	-1.1171896	-1.38888755	1.0052620	1.7849606	-0.1137275	-
1.3542194						
## [616,]	0.4179961	-0.66206039	-0.6389722	1.7849606	-0.1137275	
1.6143354						
## [617,]	-0.3495967	-1.38888755	1.0052620	0.1937777	1.5040857	-
1.3542194						

## [618,]	-1.1171896	-1.38888755	-0.6389722	-0.6018137	-1.7315407	-
1.3542194						
## [619,]	-1.1171896	1.51842111	1.8273791	1.7849606	-1.7315407	
0.1300580						
## [620,]	-0.3495967	0.06476678	-0.6389722	0.1937777	-0.1137275	-
0.6120807						
## [621,]	0.4179961	0.79159394	-1.4610893	-1.3974051	-0.1137275	
0.1300580						
## [622,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.9226341	
1.6143354						
## [623,]	1.1855890	0.06476678	1.0052620	0.9893691	1.5040857	
0.1300580						
## [624,]	0.4179961	1.51842111	1.0052620	0.1937777	-0.9226341	-
1.3542194						
## [625,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	0.6951791	-
1.3542194						
## [626,]	0.4179961	0.79159394	-1.4610893	-0.6018137	0.6951791	
0.1300580						
## [627,]	-1.1171896	0.79159394	1.0052620	0.9893691	-0.9226341	-
0.6120807						
## [628,]	-1.1171896	-1.38888755	-0.6389722	0.1937777	-0.1137275	
0.8721967						
## [629,]	1.9531818	0.79159394	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [630,]	-1.1171896	1.51842111	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [631,]	-0.3495967	0.79159394	1.8273791	0.9893691	0.6951791	-
0.6120807						
## [632,]	-0.3495967	-0.66206039	-0.6389722	0.1937777	-0.9226341	
0.1300580						
## [633,]	-0.3495967	1.51842111	-0.6389722	-0.6018137	-0.1137275	
0.1300580						
## [634,]	-1.1171896	-0.66206039	0.1831449	0.1937777	-0.9226341	-
1.3542194						
## [635,]	-0.3495967	0.79159394	0.1831449	0.9893691	-0.1137275	
0.8721967						
## [636,]	-1.1171896	-0.66206039	1.0052620	0.9893691	0.6951791	-
1.3542194						
## [637,]	1.1855890	1.51842111	1.8273791	0.1937777	1.5040857	
1.6143354						
## [638,]	1.9531818	-0.66206039	-1.4610893	-0.6018137	-0.9226341	-
1.3542194						
## [639,]	1.9531818	0.79159394	1.0052620	0.1937777	0.6951791	
0.1300580						
## [640,]	0.4179961	-1.38888755	-0.6389722	1.7849606	1.5040857	
1.6143354						
## [641,]	1.9531818	1.51842111	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [642,]	-0.3495967	1.51842111	1.0052620	0.1937777	-0.1137275	
0.1300580						

## [643,]	-0.3495967	-0.66206039	-0.6389722	-1.3974051	-1.7315407	
0.1300580						
## [644,]	-1.1171896	0.79159394	-1.4610893	0.1937777	0.6951791	-
1.3542194						
## [645,]	-0.3495967	0.79159394	1.0052620	-0.6018137	-0.9226341	-
1.3542194						
## [646,]	-1.1171896	0.79159394	-0.6389722	0.1937777	-0.9226341	
0.8721967						
## [647,]	-1.1171896	0.06476678	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [648,]	-1.1171896	1.51842111	-0.6389722	0.9893691	1.5040857	
0.1300580						
## [649,]	-1.1171896	0.06476678	-0.6389722	-0.6018137	0.6951791	-
1.3542194						
## [650,]	0.4179961	0.79159394	1.0052620	0.9893691	0.6951791	
0.1300580						
## [651,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [652,]	-0.3495967	0.79159394	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [653,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [654,]	-0.3495967	-1.38888755	0.1831449	0.9893691	1.5040857	-
0.6120807						
## [655,]	-1.1171896	0.06476678	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [656,]	1.1855890	0.06476678	1.0052620	-0.6018137	-0.1137275	
0.1300580						
## [657,]	0.4179961	-0.66206039	-1.4610893	0.9893691	0.6951791	
0.1300580						
## [658,]	-0.3495967	0.79159394	-0.6389722	-1.3974051	-0.9226341	-
0.6120807						
## [659,]	-1.1171896	1.51842111	-0.6389722	0.1937777	-0.9226341	
0.1300580						
## [660,]	1.1855890	-0.66206039	-1.4610893	0.1937777	-0.1137275	
1.6143354						
## [661,]	1.1855890	0.06476678	1.8273791	0.9893691	-0.1137275	
0.1300580						
## [662,]	-1.1171896	-0.66206039	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [663,]	-1.1171896	0.06476678	1.0052620	-1.3974051	-0.1137275	-
1.3542194						
## [664,]	1.9531818	0.06476678	1.0052620	0.1937777	-0.1137275	
0.8721967						
## [665,]	-1.1171896	-1.38888755	-0.6389722	0.1937777	0.6951791	
0.1300580						
## [666,]	1.9531818	1.51842111	1.8273791	0.1937777	1.5040857	
1.6143354						
## [667,]	-0.3495967	-1.38888755	-1.4610893	-1.3974051	0.6951791	
1.6143354						

## [668,]	0.4179961	1.51842111	1.0052620	0.9893691	-1.7315407	-
0.6120807						
## [669,]	-1.1171896	-0.66206039	-0.6389722	0.9893691	1.5040857	
1.6143354						
## [670,]	1.1855890	0.79159394	0.1831449	0.1937777	-0.1137275	
0.8721967						
## [671,]	-1.1171896	-0.66206039	0.1831449	0.1937777	-0.9226341	-
0.6120807						
## [672,]	-1.1171896	0.79159394	1.0052620	0.9893691	0.6951791	
0.8721967						
## [673,]	-0.3495967	-1.38888755	-1.4610893	0.1937777	-0.9226341	
0.1300580						
## [674,]	-1.1171896	0.06476678	-0.6389722	0.9893691	0.6951791	
0.1300580						
## [675,]	0.4179961	0.79159394	-1.4610893	-1.3974051	-0.1137275	-
1.3542194						
## [676,]	-1.1171896	-0.66206039	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [677,]	-1.1171896	-0.66206039	-1.4610893	-0.6018137	-1.7315407	
1.6143354						
## [678,]	0.4179961	0.06476678	0.1831449	-0.6018137	-0.1137275	-
1.3542194						
## [679,]	1.1855890	-1.38888755	1.8273791	0.1937777	0.6951791	
0.8721967						
## [680,]	1.9531818	0.06476678	1.8273791	0.9893691	1.5040857	
1.6143354						
## [681,]	0.4179961	1.51842111	1.8273791	-0.6018137	1.5040857	-
0.6120807						
## [682,]	1.1855890	0.79159394	1.8273791	0.9893691	-0.1137275	
0.8721967						
## [683,]	1.1855890	0.06476678	1.0052620	0.1937777	0.6951791	
0.1300580						
## [684,]	0.4179961	0.06476678	0.1831449	0.1937777	1.5040857	-
1.3542194						
## [685,]	-0.3495967	0.79159394	-0.6389722	-0.6018137	-0.1137275	-
0.6120807						
## [686,]	0.4179961	0.79159394	0.1831449	0.9893691	0.6951791	-
1.3542194						
## [687,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [688,]	1.1855890	1.51842111	0.1831449	0.1937777	1.5040857	
0.1300580						
## [689,]	1.9531818	0.06476678	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [690,]	-0.3495967	0.79159394	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [691,]	0.4179961	0.06476678	0.1831449	0.1937777	0.6951791	
0.8721967						
## [692,]	-0.3495967	0.79159394	-0.6389722	0.9893691	1.5040857	
1.6143354						

## [693,]	1.1855890	0.79159394	0.1831449	0.9893691	0.6951791	
0.8721967						
## [694,]	-1.1171896	0.79159394	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [695,]	-0.3495967	0.06476678	0.1831449	1.7849606	1.5040857	-
1.3542194						
## [696,]	-0.3495967	1.51842111	0.1831449	0.9893691	0.6951791	
0.8721967						
## [697,]	-1.1171896	0.06476678	-1.4610893	0.1937777	-0.1137275	-
1.3542194						
## [698,]	1.9531818	0.06476678	-1.4610893	-1.3974051	-0.9226341	-
0.6120807						
## [699,]	-1.1171896	1.51842111	1.8273791	0.1937777	-0.9226341	-
0.6120807						
## [700,]	-0.3495967	0.06476678	0.1831449	-0.6018137	-0.9226341	-
1.3542194						
## [701,]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [702,]	-1.1171896	-0.66206039	-0.6389722	0.1937777	-0.1137275	-
0.6120807						
## [703,]	-0.3495967	-1.38888755	-1.4610893	-0.6018137	-0.1137275	
0.1300580						
## [704,]	1.1855890	0.06476678	1.8273791	0.1937777	-0.1137275	
0.1300580						
## [705,]	-0.3495967	0.79159394	1.8273791	-0.6018137	0.6951791	
0.1300580						
## [706,]	1.1855890	0.06476678	1.8273791	0.9893691	0.6951791	
1.6143354						
## [707,]	-1.1171896	0.79159394	0.1831449	-0.6018137	-1.7315407	
0.1300580						
## [708,]	-0.3495967	-0.66206039	-0.6389722	-0.6018137	-0.1137275	
0.8721967						
## [709,]	-1.1171896	1.51842111	1.0052620	-1.3974051	-1.7315407	
0.8721967						
## [710,]	0.4179961	0.79159394	0.1831449	0.9893691	0.6951791	
1.6143354						
## [711,]	-0.3495967	0.79159394	1.8273791	0.1937777	-0.9226341	-
0.6120807						
## [712,]	0.4179961	-0.66206039	1.0052620	-0.6018137	0.6951791	-
1.3542194						
## [713,]	-1.1171896	-1.38888755	-1.4610893	0.1937777	-0.9226341	-
0.6120807						
## [714,]	1.9531818	0.79159394	1.8273791	1.7849606	1.5040857	
1.6143354						
## [715,]	-1.1171896	0.79159394	1.8273791	-1.3974051	-0.1137275	
0.1300580						
## [716,]	1.1855890	-1.38888755	1.0052620	0.1937777	-0.1137275	-
0.6120807						
## [717,]	-1.1171896	0.79159394	1.8273791	0.1937777	-0.1137275	-
0.6120807						

## [718,]	-1.1171896	-1.38888755	-1.4610893	0.1937777	-0.1137275	
0.1300580						
## [719,]	1.9531818	-0.66206039	0.1831449	1.7849606	-0.1137275	
0.1300580						
## [720,]	-0.3495967	-0.66206039	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [721,]	-0.3495967	0.79159394	1.0052620	1.7849606	-0.1137275	
1.6143354						
## [722,]	-1.1171896	-1.38888755	-1.4610893	0.1937777	-0.1137275	
0.8721967						
## [723,]	-0.3495967	0.79159394	0.1831449	1.7849606	0.6951791	
1.6143354						
## [724,]	-1.1171896	-0.66206039	-1.4610893	0.9893691	-0.1137275	-
0.6120807						
## [725,]	-0.3495967	0.06476678	0.1831449	0.1937777	0.6951791	-
0.6120807						
## [726,]	-1.1171896	0.79159394	-1.4610893	0.9893691	-0.9226341	
0.8721967						
## [727,]	-1.1171896	1.51842111	1.8273791	0.1937777	-0.9226341	-
1.3542194						
## [728,]	0.4179961	-0.66206039	-0.6389722	0.1937777	-0.1137275	-
1.3542194						
## [729,]	-1.1171896	1.51842111	-0.6389722	-0.6018137	-0.1137275	
0.1300580						
## [730,]	0.4179961	0.79159394	1.0052620	0.1937777	1.5040857	
0.8721967						
## [731,]	1.9531818	0.06476678	0.1831449	0.9893691	-0.9226341	
0.8721967						
## [732,]	-0.3495967	0.79159394	0.1831449	0.9893691	0.6951791	
1.6143354						
## [733,]	-0.3495967	0.79159394	0.1831449	0.9893691	-0.1137275	-
0.6120807						
## [734,]	-1.1171896	-1.38888755	1.0052620	0.9893691	0.6951791	
0.1300580						
## [735,]	-1.1171896	-1.38888755	-0.6389722	0.1937777	-0.1137275	-
0.6120807						
## [736,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [737,]	0.4179961	-0.66206039	-0.6389722	0.9893691	1.5040857	-
0.6120807						
## [738,]	-1.1171896	-1.38888755	-1.4610893	0.9893691	1.5040857	
0.8721967						
## [739,]	-0.3495967	1.51842111	-1.4610893	-1.3974051	0.6951791	-
1.3542194						
## [740,]	0.4179961	-1.38888755	-0.6389722	-0.6018137	1.5040857	-
0.6120807						
## [741,]	-1.1171896	1.51842111	-0.6389722	0.1937777	-0.1137275	
0.1300580						
## [742,]	-1.1171896	-1.38888755	-0.6389722	1.7849606	0.6951791	
0.8721967						

## [743,]	-1.1171896	0.06476678	1.0052620	-0.6018137	-0.1137275	
0.8721967						
## [744,]	1.1855890	0.06476678	0.1831449	0.1937777	-0.1137275	
0.8721967						
## [745,]	1.9531818	-1.38888755	0.1831449	0.1937777	1.5040857	
1.6143354						
## [746,]	-0.3495967	-1.38888755	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [747,]	0.4179961	-1.38888755	-0.6389722	0.1937777	0.6951791	
0.8721967						
## [748,]	0.4179961	1.51842111	1.0052620	1.7849606	-0.9226341	
1.6143354						
## [749,]	1.9531818	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [750,]	0.4179961	-1.38888755	-1.4610893	0.1937777	1.5040857	
1.6143354						
## [751,]	-1.1171896	1.51842111	-1.4610893	1.7849606	0.6951791	
1.6143354						
## [752,]	1.1855890	-1.38888755	-0.6389722	0.1937777	-0.1137275	
0.1300580						
## [753,]	0.4179961	0.79159394	-0.6389722	0.9893691	-0.9226341	-
0.6120807						
## [754,]	-0.3495967	-1.38888755	0.1831449	-0.6018137	1.5040857	
1.6143354						
## [755,]	0.4179961	0.79159394	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [756,]	1.1855890	-1.38888755	1.0052620	0.9893691	1.5040857	-
0.6120807						
## [757,]	1.9531818	-0.66206039	1.8273791	0.1937777	0.6951791	
0.8721967						
## [758,]	-0.3495967	1.51842111	1.8273791	1.7849606	-0.1137275	-
0.6120807						
## [759,]	-1.1171896	0.06476678	-1.4610893	-1.3974051	-0.9226341	-
0.6120807						
## [760,]	0.4179961	0.06476678	0.1831449	0.9893691	1.5040857	
0.8721967						
## [761,]	1.1855890	-0.66206039	0.1831449	-0.6018137	0.6951791	
0.8721967						
## [762,]	-0.3495967	1.51842111	1.8273791	-1.3974051	-1.7315407	
0.1300580						
## [763,]	0.4179961	0.79159394	1.8273791	-1.3974051	-0.1137275	
1.6143354						
## [764,]	1.9531818	-1.38888755	-1.4610893	0.1937777	-0.1137275	
0.8721967						
## [765,]	-0.3495967	-0.66206039	-0.6389722	0.1937777	-0.1137275	-
0.6120807						
## [766,]	1.9531818	-0.66206039	-0.6389722	0.1937777	1.5040857	
0.8721967						
## [767,]	1.1855890	0.79159394	1.0052620	0.9893691	1.5040857	
0.1300580						

## [768,]	-0.3495967	-0.66206039	-0.6389722	0.1937777	0.6951791	
0.8721967						
## [769,]	-0.3495967	1.51842111	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [770,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [771,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [772,]	1.1855890	-0.66206039	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [773,]	-1.1171896	0.79159394	-1.4610893	-1.3974051	0.6951791	-
0.6120807						
## [774,]	0.4179961	0.79159394	0.1831449	1.7849606	0.6951791	
0.8721967						
## [775,]	-1.1171896	-0.66206039	-0.6389722	0.1937777	-0.1137275	-
0.6120807						
## [776,]	-0.3495967	0.79159394	-0.6389722	-0.6018137	-0.1137275	
0.8721967						
## [777,]	-1.1171896	0.06476678	-1.4610893	0.1937777	1.5040857	-
0.6120807						
## [778,]	-1.1171896	1.51842111	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [779,]	-1.1171896	0.06476678	-0.6389722	-1.3974051	-0.9226341	-
1.3542194						
## [780,]	-0.3495967	0.79159394	-0.6389722	1.7849606	-0.1137275	
0.8721967						
## [781,]	-0.3495967	0.06476678	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [782,]	-1.1171896	-1.38888755	-1.4610893	0.9893691	0.6951791	-
1.3542194						
## [783,]	1.9531818	-0.66206039	1.8273791	1.7849606	1.5040857	
1.6143354						
## [784,]	-1.1171896	-0.66206039	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [785,]	-1.1171896	0.06476678	0.1831449	1.7849606	-0.9226341	-
0.6120807						
## [786,]	0.4179961	0.79159394	0.1831449	0.1937777	-0.9226341	
0.1300580						
## [787,]	-1.1171896	-0.66206039	-0.6389722	1.7849606	1.5040857	
0.8721967						
## [788,]	-1.1171896	1.51842111	0.1831449	-0.6018137	-0.1137275	
0.1300580						
## [789,]	0.4179961	0.79159394	1.0052620	-0.6018137	-0.9226341	
0.8721967						
## [790,]	-0.3495967	0.79159394	-1.4610893	-1.3974051	-1.7315407	
0.1300580						
## [791,]	1.1855890	-0.66206039	-1.4610893	-1.3974051	1.5040857	
1.6143354						
## [792,]	-1.1171896	0.79159394	0.1831449	1.7849606	-0.1137275	
0.8721967						

## [793,]	-0.3495967	0.79159394	0.1831449	0.1937777	-1.7315407	-
1.3542194						
## [794,]	-0.3495967	1.51842111	0.1831449	0.9893691	-0.1137275	
0.1300580						
## [795,]	-1.1171896	1.51842111	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [796,]	1.9531818	-1.38888755	1.8273791	-1.3974051	1.5040857	-
1.3542194						
## [797,]	0.4179961	0.79159394	1.0052620	-0.6018137	0.6951791	
0.1300580						
## [798,]	-1.1171896	1.51842111	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [799,]	0.4179961	0.06476678	0.1831449	-0.6018137	-0.9226341	
0.1300580						
## [800,]	1.1855890	-1.38888755	-1.4610893	-0.6018137	0.6951791	
0.8721967						
## [801,]	1.1855890	0.79159394	-1.4610893	-1.3974051	-0.1137275	-
1.3542194						
## [802,]	-0.3495967	-1.38888755	-1.4610893	-1.3974051	1.5040857	
0.1300580						
## [803,]	0.4179961	1.51842111	0.1831449	-1.3974051	-0.1137275	
0.1300580						
## [804,]	1.9531818	-1.38888755	-1.4610893	-0.6018137	-0.1137275	-
0.6120807						
## [805,]	1.1855890	0.79159394	1.0052620	0.9893691	0.6951791	-
0.6120807						
## [806,]	1.9531818	0.06476678	1.0052620	-0.6018137	1.5040857	
0.8721967						
## [807,]	-1.1171896	-1.38888755	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [808,]	-0.3495967	-1.38888755	-1.4610893	-1.3974051	-0.1137275	-
1.3542194						
## [809,]	1.1855890	0.06476678	-0.6389722	-1.3974051	-0.9226341	-
0.6120807						
## [810,]	-1.1171896	0.79159394	-1.4610893	-1.3974051	-0.1137275	-
1.3542194						
## [811,]	0.4179961	-1.38888755	0.1831449	0.9893691	1.5040857	
0.8721967						
## [812,]	1.1855890	0.06476678	-0.6389722	0.1937777	0.6951791	
0.8721967						
## [813,]	-1.1171896	-0.66206039	-1.4610893	-1.3974051	-0.9226341	-
1.3542194						
## [814,]	-1.1171896	-0.66206039	-1.4610893	-1.3974051	-0.1137275	-
1.3542194						
## [815,]	0.4179961	1.51842111	1.0052620	0.1937777	-0.9226341	-
1.3542194						
## [816,]	0.4179961	1.51842111	1.0052620	0.9893691	1.5040857	-
0.6120807						
## [817,]	1.9531818	0.79159394	1.0052620	1.7849606	1.5040857	
1.6143354						

## [818,]	-0.3495967	1.51842111	1.0052620	0.9893691	1.5040857	-
1.3542194						
## [819,]	0.4179961	-0.66206039	-1.4610893	-1.3974051	-0.1137275	
0.1300580						
## [820,]	-0.3495967	0.06476678	-0.6389722	-1.3974051	-1.7315407	-
0.6120807						
## [821,]	-0.3495967	0.79159394	1.0052620	0.9893691	0.6951791	
1.6143354						
## [822,]	1.9531818	-1.38888755	0.1831449	0.9893691	1.5040857	
1.6143354						
## [823,]	0.4179961	1.51842111	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [824,]	-1.1171896	1.51842111	-0.6389722	-0.6018137	-1.7315407	
0.1300580						
## [825,]	-0.3495967	-1.38888755	0.1831449	-0.6018137	1.5040857	
0.1300580						
## [826,]	-0.3495967	-1.38888755	-0.6389722	-0.6018137	-0.9226341	
0.8721967						
## [827,]	0.4179961	0.06476678	0.1831449	1.7849606	1.5040857	
0.1300580						
## [828,]	0.4179961	-0.66206039	1.0052620	0.1937777	1.5040857	
1.6143354						
## [829,]	1.1855890	1.51842111	-0.6389722	-1.3974051	-0.1137275	
0.1300580						
## [830,]	1.1855890	0.06476678	-0.6389722	0.9893691	0.6951791	
0.8721967						
## [831,]	-1.1171896	1.51842111	1.0052620	0.9893691	-0.1137275	
0.1300580						
## [832,]	1.1855890	1.51842111	1.0052620	0.9893691	1.5040857	
0.1300580						
## [833,]	1.1855890	-1.38888755	1.0052620	0.9893691	1.5040857	
0.1300580						
## [834,]	-1.1171896	-1.38888755	-1.4610893	1.7849606	-0.1137275	
1.6143354						
## [835,]	-0.3495967	-0.66206039	-0.6389722	-0.6018137	-0.1137275	-
0.6120807						
## [836,]	-1.1171896	-1.38888755	1.0052620	0.1937777	-0.1137275	
0.1300580						
## [837,]	1.9531818	0.79159394	0.1831449	1.7849606	0.6951791	
0.1300580						
## [838,]	1.1855890	-0.66206039	1.0052620	1.7849606	1.5040857	
0.8721967						
## [839,]	-1.1171896	0.79159394	1.8273791	0.1937777	0.6951791	
0.8721967						
## [840,]	-0.3495967	0.06476678	0.1831449	0.1937777	0.6951791	
0.8721967						
## [841,]	-1.1171896	0.79159394	0.1831449	0.1937777	-0.9226341	-
0.6120807						
## [842,]	1.1855890	1.51842111	-0.6389722	-0.6018137	-0.9226341	
0.1300580						

## [843,]	1.1855890	-1.38888755	0.1831449	-0.6018137	-0.9226341	
1.6143354						
## [844,]	-0.3495967	1.51842111	0.1831449	-0.6018137	-0.9226341	-
1.3542194						
## [845,]	0.4179961	-0.66206039	0.1831449	1.7849606	0.6951791	
0.8721967						
## [846,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	-1.7315407	-
1.3542194						
## [847,]	-1.1171896	0.79159394	-0.6389722	0.9893691	-0.9226341	-
0.6120807						
## [848,]	-0.3495967	-1.38888755	1.0052620	0.9893691	1.5040857	
1.6143354						
## [849,]	1.1855890	-1.38888755	1.0052620	-0.6018137	-0.1137275	
1.6143354						
## [850,]	-1.1171896	-1.38888755	-0.6389722	0.9893691	-0.9226341	-
1.3542194						
## [851,]	-1.1171896	0.79159394	1.0052620	0.1937777	-0.1137275	-
1.3542194						
## [852,]	-0.3495967	1.51842111	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [853,]	-1.1171896	1.51842111	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [854,]	-1.1171896	-0.66206039	0.1831449	-0.6018137	-0.9226341	-
0.6120807						
## [855,]	-1.1171896	1.51842111	0.1831449	0.1937777	-0.9226341	-
0.6120807						
## [856,]	1.1855890	1.51842111	1.0052620	-0.6018137	-0.1137275	-
0.6120807						
## [857,]	0.4179961	0.06476678	0.1831449	1.7849606	-0.1137275	-
0.6120807						
## [858,]	-0.3495967	-0.66206039	0.1831449	0.1937777	-0.1137275	
0.8721967						
## [859,]	-1.1171896	-1.38888755	1.8273791	1.7849606	1.5040857	
0.1300580						
## [860,]	-0.3495967	1.51842111	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [861,]	0.4179961	0.79159394	0.1831449	0.1937777	-1.7315407	
0.1300580						
## [862,]	-0.3495967	-1.38888755	0.1831449	0.1937777	-0.1137275	
0.8721967						
## [863,]	-1.1171896	0.79159394	0.1831449	0.9893691	-0.9226341	
0.1300580						
## [864,]	-1.1171896	-0.66206039	-0.6389722	0.1937777	-0.1137275	
0.8721967						
## [865,]	1.1855890	0.79159394	0.1831449	0.1937777	0.6951791	
0.8721967						
## [866,]	0.4179961	0.79159394	-0.6389722	-1.3974051	-0.9226341	
0.8721967						
## [867,]	1.1855890	0.06476678	1.0052620	-0.6018137	0.6951791	
0.8721967						

## [868,]	-1.1171896	-1.38888755	0.1831449	-1.3974051	-0.1137275	
0.1300580						
## [869,]	-0.3495967	1.51842111	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [870,]	0.4179961	-0.66206039	-1.4610893	0.1937777	1.5040857	
1.6143354						
## [871,]	-0.3495967	0.06476678	-1.4610893	-1.3974051	-1.7315407	-
0.6120807						
## [872,]	-0.3495967	-0.66206039	0.1831449	0.9893691	1.5040857	
0.8721967						
## [873,]	-0.3495967	-0.66206039	-0.6389722	0.1937777	-0.9226341	
1.6143354						
## [874,]	-1.1171896	0.06476678	0.1831449	0.1937777	-0.1137275	
0.1300580						
## [875,]	-0.3495967	0.06476678	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
## [876,]	-1.1171896	0.79159394	-1.4610893	-1.3974051	-1.7315407	
0.1300580						
## [877,]	-1.1171896	1.51842111	1.8273791	0.9893691	0.6951791	-
1.3542194						
## [878,]	1.1855890	0.06476678	0.1831449	0.9893691	1.5040857	
1.6143354						
## [879,]	-0.3495967	1.51842111	1.0052620	0.9893691	0.6951791	
0.1300580						
## [880,]	0.4179961	-0.66206039	-1.4610893	-0.6018137	0.6951791	
0.8721967						
## [881,]	0.4179961	0.79159394	-0.6389722	-0.6018137	-0.9226341	-
1.3542194						
## [882,]	-0.3495967	-1.38888755	-1.4610893	0.9893691	1.5040857	
1.6143354						
## [883,]	1.9531818	0.06476678	-0.6389722	-0.6018137	-0.1137275	-
0.6120807						
## [884,]	-1.1171896	-0.66206039	0.1831449	0.9893691	-0.1137275	
0.1300580						
## [885,]	1.1855890	0.06476678	1.0052620	0.9893691	0.6951791	
1.6143354						
## [886,]	-1.1171896	1.51842111	1.0052620	-0.6018137	-0.1137275	-
1.3542194						
## [887,]	1.1855890	-1.38888755	-1.4610893	-1.3974051	-0.1137275	
0.8721967						
## [888,]	-0.3495967	0.79159394	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [889,]	-0.3495967	-0.66206039	-1.4610893	-0.6018137	0.6951791	-
0.6120807						
## [890,]	-0.3495967	-0.66206039	0.1831449	0.1937777	1.5040857	
0.8721967						
## [891,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [892,]	-0.3495967	-0.66206039	1.0052620	-1.3974051	-0.1137275	-
0.6120807						

## [893,]	-0.3495967	0.06476678	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [894,]	-0.3495967	0.79159394	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [895,]	-0.3495967	-0.66206039	1.0052620	0.1937777	0.6951791	-
0.6120807						
## [896,]	-1.1171896	0.79159394	0.1831449	0.1937777	-0.9226341	-
1.3542194						
## [897,]	0.4179961	-1.38888755	-0.6389722	0.9893691	0.6951791	
0.8721967						
## [898,]	-0.3495967	0.06476678	-0.6389722	0.1937777	-0.9226341	
0.8721967						
## [899,]	0.4179961	-1.38888755	0.1831449	1.7849606	1.5040857	
1.6143354						
## [900,]	-0.3495967	1.51842111	0.1831449	0.1937777	-1.7315407	
0.1300580						
## [901,]	-1.1171896	-0.66206039	1.0052620	0.9893691	-0.9226341	-
1.3542194						
## [902,]	-0.3495967	-1.38888755	-0.6389722	0.1937777	-0.1137275	-
0.6120807						
## [903,]	0.4179961	1.51842111	1.0052620	0.1937777	-0.1137275	-
0.6120807						
## [904,]	1.1855890	-0.66206039	0.1831449	1.7849606	0.6951791	
0.8721967						
## [905,]	-1.1171896	-0.66206039	-0.6389722	-0.6018137	-0.1137275	-
1.3542194						
## [906,]	0.4179961	1.51842111	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [907,]	-1.1171896	-0.66206039	0.1831449	0.9893691	-0.1137275	
1.6143354						
## [908,]	0.4179961	0.06476678	0.1831449	-0.6018137	-0.9226341	-
1.3542194						
## [909,]	0.4179961	-0.66206039	-0.6389722	0.1937777	-0.9226341	-
0.6120807						
## [910,]	0.4179961	0.79159394	1.0052620	-0.6018137	1.5040857	
0.1300580						
## [911,]	-1.1171896	0.79159394	1.0052620	1.7849606	1.5040857	
1.6143354						
## [912,]	1.1855890	-1.38888755	-1.4610893	0.1937777	0.6951791	
1.6143354						
## [913,]	1.1855890	0.06476678	0.1831449	-0.6018137	0.6951791	-
0.6120807						
## [914,]	0.4179961	-1.38888755	-0.6389722	0.9893691	0.6951791	
0.8721967						
## [915,]	1.1855890	-0.66206039	0.1831449	0.9893691	1.5040857	
1.6143354						
## [916,]	-1.1171896	0.79159394	-0.6389722	-0.6018137	-0.1137275	
0.1300580						
## [917,]	1.1855890	-1.38888755	0.1831449	0.1937777	1.5040857	
0.8721967						

## [918,]	1.1855890	-0.66206039	-0.6389722	-0.6018137	0.6951791	
0.8721967						
## [919,]	1.9531818	0.06476678	1.0052620	-0.6018137	0.6951791	-
0.6120807						
## [920,]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275	
1.6143354						
## [921,]	0.4179961	-0.66206039	0.1831449	0.1937777	1.5040857	-
1.3542194						
## [922,]	0.4179961	0.79159394	-0.6389722	0.1937777	-0.9226341	
0.1300580						
## [923,]	-1.1171896	0.79159394	0.1831449	-0.6018137	-1.7315407	-
1.3542194						
## [924,]	1.9531818	0.06476678	-1.4610893	0.9893691	1.5040857	
1.6143354						
## [925,]	-1.1171896	-0.66206039	-0.6389722	-1.3974051	-1.7315407	-
1.3542194						
## [926,]	-1.1171896	0.06476678	1.8273791	0.9893691	-0.1137275	-
0.6120807						
## [927,]	0.4179961	-1.38888755	-0.6389722	-0.6018137	-0.9226341	
1.6143354						
## [928,]	-0.3495967	0.79159394	1.0052620	-1.3974051	-0.9226341	
0.1300580						
## [929,]	-0.3495967	0.79159394	1.0052620	-0.6018137	0.6951791	
0.1300580						
## [930,]	1.1855890	-0.66206039	1.8273791	-0.6018137	-0.1137275	
1.6143354						
## [931,]	0.4179961	1.51842111	0.1831449	-1.3974051	-1.7315407	-
1.3542194						
## [932,]	0.4179961	-0.66206039	0.1831449	-0.6018137	-0.1137275	-
1.3542194						
## [933,]	-1.1171896	0.79159394	0.1831449	-0.6018137	-0.9226341	-
1.3542194						
## [934,]	0.4179961	-1.38888755	1.0052620	1.7849606	1.5040857	
0.8721967						
## [935,]	1.1855890	-0.66206039	-0.6389722	-0.6018137	-0.9226341	
0.1300580						
## [936,]	-1.1171896	-0.66206039	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [937,]	1.1855890	-0.66206039	0.1831449	0.9893691	-0.1137275	-
0.6120807						
## [938,]	1.9531818	0.79159394	1.8273791	1.7849606	1.5040857	
1.6143354						
## [939,]	1.1855890	0.79159394	-1.4610893	0.1937777	1.5040857	
1.6143354						
## [940,]	-0.3495967	-1.38888755	-0.6389722	0.1937777	0.6951791	
0.1300580						
## [941,]	-1.1171896	0.79159394	1.0052620	1.7849606	-0.9226341	-
0.6120807						
## [942,]	0.4179961	0.79159394	1.8273791	0.9893691	0.6951791	
0.8721967						

## [943,]	-0.3495967	-1.38888755	0.1831449	1.7849606	-0.1137275	
0.1300580						
## [944,]	1.1855890	0.79159394	1.0052620	0.9893691	-0.1137275	
0.1300580						
## [945,]	-1.1171896	-0.66206039	-1.4610893	0.1937777	-0.1137275	-
0.6120807						
## [946,]	1.1855890	1.51842111	1.0052620	-0.6018137	0.6951791	
0.1300580						
## [947,]	1.9531818	-0.66206039	-1.4610893	0.9893691	1.5040857	
0.8721967						
## [948,]	-0.3495967	0.79159394	0.1831449	-0.6018137	-1.7315407	-
0.6120807						
## [949,]	-1.1171896	-0.66206039	0.1831449	-0.6018137	-0.1137275	-
0.6120807						
## [950,]	0.4179961	-0.66206039	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [951,]	1.9531818	0.79159394	1.0052620	0.1937777	0.6951791	-
0.6120807						
## [952,]	-0.3495967	0.79159394	1.8273791	0.1937777	1.5040857	
0.8721967						
## [953,]	0.4179961	-1.38888755	0.1831449	0.1937777	-0.1137275	
0.8721967						
## [954,]	1.1855890	0.79159394	1.0052620	0.9893691	0.6951791	
0.1300580						
## [955,]	-0.3495967	0.79159394	1.0052620	0.1937777	-0.1137275	-
0.6120807						
## [956,]	1.9531818	-1.38888755	0.1831449	-1.3974051	-0.1137275	-
1.3542194						
## [957,]	0.4179961	0.06476678	0.1831449	0.9893691	0.6951791	-
1.3542194						
## [958,]	-1.1171896	1.51842111	-1.4610893	-0.6018137	-1.7315407	-
1.3542194						
## [959,]	-1.1171896	0.06476678	-0.6389722	-0.6018137	-0.9226341	
0.1300580						
## [960,]	1.1855890	-0.66206039	1.8273791	0.9893691	1.5040857	
0.8721967						
## [961,]	1.9531818	0.06476678	0.1831449	1.7849606	-0.9226341	
1.6143354						
## [962,]	-1.1171896	1.51842111	1.0052620	0.1937777	-0.9226341	
0.1300580						
## [963,]	-1.1171896	-1.38888755	-1.4610893	0.9893691	-1.7315407	-
1.3542194						
## [964,]	-1.1171896	0.06476678	-1.4610893	0.9893691	-1.7315407	-
1.3542194						
## [965,]	1.9531818	0.06476678	1.0052620	0.1937777	0.6951791	
1.6143354						
## [966,]	1.1855890	-1.38888755	0.1831449	-0.6018137	1.5040857	-
0.6120807						
## [967,]	-1.1171896	-1.38888755	0.1831449	0.9893691	-1.7315407	
1.6143354						

## [968,]	1.9531818	-1.38888755	1.0052620	0.9893691	0.6951791	-
0.6120807						
## [969,]	-1.1171896	1.51842111	0.1831449	0.1937777	-0.1137275	-
0.6120807						
## [970,]	0.4179961	-0.66206039	-0.6389722	0.1937777	0.6951791	
0.1300580						
## [971,]	-1.1171896	0.79159394	-0.6389722	1.7849606	0.6951791	
0.8721967						
## [972,]	1.1855890	-1.38888755	1.0052620	0.1937777	0.6951791	
0.1300580						
## [973,]	1.1855890	-1.38888755	0.1831449	0.1937777	1.5040857	
1.6143354						
## [974,]	1.9531818	-1.38888755	1.0052620	1.7849606	-0.9226341	
0.1300580						
## [975,]	1.9531818	-1.38888755	1.8273791	0.1937777	0.6951791	
0.8721967						
## [976,]	1.9531818	1.51842111	1.8273791	1.7849606	1.5040857	
1.6143354						
## [977,]	-0.3495967	0.06476678	1.0052620	0.9893691	0.6951791	-
0.6120807						
## [978,]	-0.3495967	0.79159394	-0.6389722	-1.3974051	-0.9226341	
0.1300580						
## [979,]	0.4179961	-0.66206039	0.1831449	1.7849606	1.5040857	
0.1300580						
## [980,]	-1.1171896	0.06476678	-0.6389722	0.9893691	0.6951791	-
1.3542194						
## [981,]	-0.3495967	-1.38888755	0.1831449	1.7849606	0.6951791	-
1.3542194						
## [982,]	-1.1171896	-1.38888755	-0.6389722	0.1937777	0.6951791	
1.6143354						
## [983,]	-0.3495967	-0.66206039	1.0052620	0.1937777	0.6951791	
1.6143354						
## [984,]	-1.1171896	0.79159394	1.0052620	-0.6018137	-0.1137275	
0.1300580						
## [985,]	0.4179961	-1.38888755	-0.6389722	-1.3974051	0.6951791	
0.1300580						
## [986,]	0.4179961	-1.38888755	1.0052620	-0.6018137	-0.1137275	
1.6143354						
## [987,]	1.1855890	0.06476678	0.1831449	0.9893691	0.6951791	
0.8721967						
## [988,]	-0.3495967	-1.38888755	0.1831449	0.1937777	-0.1137275	
0.8721967						
## [989,]	1.1855890	0.06476678	1.8273791	1.7849606	1.5040857	
1.6143354						
## [990,]	-1.1171896	1.51842111	-0.6389722	0.1937777	-0.1137275	
0.1300580						
## [991,]	-1.1171896	-1.38888755	-1.4610893	-0.6018137	-0.1137275	-
1.3542194						
## [992,]	1.1855890	1.51842111	-0.6389722	-1.3974051	0.6951791	-
0.6120807						

```

## [993,] 0.4179961 -0.66206039 0.1831449 -0.6018137 -1.7315407 -
1.3542194
## [994,] -1.1171896 0.79159394 -1.4610893 -1.3974051 -1.7315407
0.8721967
## [995,] 1.1855890 -0.66206039 1.0052620 0.1937777 1.5040857
0.1300580
## [996,] 0.4179961 0.06476678 -0.6389722 -1.3974051 -1.7315407 -
0.6120807
## [997,] -1.1171896 0.79159394 1.0052620 -0.6018137 -0.1137275
0.1300580
## [998,] 1.1855890 -0.66206039 1.0052620 -1.3974051 -1.7315407 -
0.6120807
## [999,] 1.1855890 0.06476678 -0.6389722 -1.3974051 1.5040857
0.1300580
## [1000,] -1.1171896 1.51842111 1.8273791 1.7849606 1.5040857
1.6143354
## [1001,] -1.1171896 1.51842111 0.1831449 -0.6018137 -0.1137275
0.1300580
## [1002,] 1.1855890 0.79159394 0.1831449 -1.3974051 0.6951791 -
1.3542194
## [1003,] 0.4179961 -1.38888755 1.0052620 -0.6018137 -0.9226341
0.8721967
## [1004,] 0.4179961 -0.66206039 1.0052620 0.9893691 0.6951791 -
0.6120807
## [1005,] 0.4179961 1.51842111 1.0052620 -0.6018137 -0.1137275 -
0.6120807
## [1006,] -0.3495967 0.79159394 -1.4610893 1.7849606 0.6951791
0.8721967
## [1007,] 1.1855890 -1.38888755 -1.4610893 -0.6018137 -0.1137275 -
1.3542194
## [1008,] -0.3495967 0.06476678 0.1831449 -0.6018137 -0.9226341
1.6143354
## [1009,] -1.1171896 -0.66206039 -0.6389722 0.1937777 -0.9226341
1.6143354
## [1010,] -0.3495967 0.06476678 -1.4610893 -1.3974051 -0.1137275 -
0.6120807
##
## Latino Techno..Trance Opera
## [1,] -1.3844812 -1.0139085 -0.9616259
## [2,] -0.6322886 -1.0139085 -0.9616259
## [3,] 1.6242891 -1.0139085 0.7274909
## [4,] -1.3844812 -0.2592677 -0.9616259
## [5,] 0.8720965 -0.2592677 -0.1170675
## [6,] 0.1199040 -1.0139085 0.7274909
## [7,] 0.1199040 2.0046548 -0.1170675
## [8,] -0.6322886 0.4953731 -0.1170675
## [9,] -1.3844812 -1.0139085 -0.9616259
## [10,] 1.6242891 -1.0139085 -0.1170675
## [11,] 0.1199040 1.2500140 -0.1170675
## [12,] -0.6322886 -1.0139085 -0.1170675
## [13,] -0.6322886 -1.0139085 -0.1170675

```


##	[14,]	0.1199040	-1.0139085	-0.9616259
##	[15,]	-1.3844812	-1.0139085	-0.9616259
##	[16,]	-0.6322886	-1.0139085	-0.1170675
##	[17,]	-1.3844812	1.2500140	-0.9616259
##	[18,]	-0.6322886	-1.0139085	0.7274909
##	[19,]	0.8720965	1.2500140	0.7274909
##	[20,]	0.8720965	0.4953731	-0.1170675
##	[21,]	0.1199040	0.4953731	1.5720492
##	[22,]	-0.6322886	-1.0139085	-0.1170675
##	[23,]	0.1199040	0.4953731	-0.1170675
##	[24,]	0.8720965	-1.0139085	-0.9616259
##	[25,]	-0.6322886	0.4953731	1.5720492
##	[26,]	0.8720965	-0.2592677	-0.9616259
##	[27,]	1.6242891	-0.2592677	-0.1170675
##	[28,]	0.1199040	1.2500140	-0.1170675
##	[29,]	-0.6322886	0.4953731	-0.9616259
##	[30,]	0.8720965	0.4953731	-0.1170675
##	[31,]	0.1199040	0.4953731	0.7274909
##	[32,]	1.6242891	-1.0139085	-0.1170675
##	[33,]	-0.6322886	0.4953731	-0.9616259
##	[34,]	-0.6322886	-1.0139085	2.4166076
##	[35,]	-0.6322886	-1.0139085	-0.9616259
##	[36,]	1.6242891	-1.0139085	-0.9616259
##	[37,]	-1.3844812	-1.0139085	1.5720492
##	[38,]	-1.3844812	-1.0139085	-0.9616259
##	[39,]	0.1199040	1.2500140	1.5720492
##	[40,]	-1.3844812	-0.2592677	-0.1170675
##	[41,]	-0.6322886	0.4953731	-0.9616259
##	[42,]	1.6242891	2.0046548	-0.9616259
##	[43,]	0.1199040	0.4953731	-0.9616259
##	[44,]	0.1199040	0.4953731	-0.9616259
##	[45,]	1.6242891	1.2500140	0.7274909
##	[46,]	0.8720965	0.4953731	1.5720492
##	[47,]	1.6242891	-0.2592677	-0.1170675
##	[48,]	0.1199040	-0.2592677	0.7274909
##	[49,]	0.8720965	-0.2592677	-0.9616259
##	[50,]	-1.3844812	-0.2592677	-0.9616259
##	[51,]	1.6242891	-1.0139085	-0.1170675
##	[52,]	1.6242891	0.4953731	-0.1170675
##	[53,]	1.6242891	-0.2592677	2.4166076
##	[54,]	1.6242891	-0.2592677	2.4166076
##	[55,]	1.6242891	1.2500140	2.4166076
##	[56,]	0.8720965	2.0046548	0.7274909
##	[57,]	-1.3844812	-1.0139085	1.5720492
##	[58,]	-1.3844812	-1.0139085	-0.1170675
##	[59,]	0.1199040	0.4953731	-0.9616259
##	[60,]	-1.3844812	1.2500140	0.7274909
##	[61,]	-0.6322886	-1.0139085	0.7274909
##	[62,]	0.8720965	1.2500140	0.7274909
##	[63,]	0.8720965	2.0046548	2.4166076

##	[64,]	0.1199040	2.0046548	-0.9616259
##	[65,]	0.1199040	-0.2592677	-0.1170675
##	[66,]	-0.6322886	1.2500140	-0.1170675
##	[67,]	0.8720965	2.0046548	-0.9616259
##	[68,]	1.6242891	-1.0139085	-0.9616259
##	[69,]	-0.6322886	1.2500140	-0.1170675
##	[70,]	0.8720965	-1.0139085	-0.1170675
##	[71,]	-0.6322886	0.4953731	-0.9616259
##	[72,]	-1.3844812	0.4953731	-0.9616259
##	[73,]	1.6242891	-1.0139085	-0.9616259
##	[74,]	0.8720965	0.4953731	-0.9616259
##	[75,]	-1.3844812	-0.2592677	1.5720492
##	[76,]	0.8720965	-1.0139085	-0.1170675
##	[77,]	-1.3844812	-1.0139085	-0.9616259
##	[78,]	1.6242891	2.0046548	-0.9616259
##	[79,]	1.6242891	1.2500140	-0.1170675
##	[80,]	0.8720965	1.2500140	1.5720492
##	[81,]	1.6242891	0.4953731	-0.1170675
##	[82,]	1.6242891	0.4953731	0.7274909
##	[83,]	-1.3844812	-1.0139085	0.7274909
##	[84,]	1.6242891	2.0046548	0.7274909
##	[85,]	0.1199040	-1.0139085	2.4166076
##	[86,]	-0.6322886	1.2500140	0.7274909
##	[87,]	-0.6322886	0.4953731	0.7274909
##	[88,]	1.6242891	-0.2592677	-0.9616259
##	[89,]	1.6242891	2.0046548	-0.9616259
##	[90,]	-0.6322886	-1.0139085	0.7274909
##	[91,]	-1.3844812	-1.0139085	-0.9616259
##	[92,]	-1.3844812	-1.0139085	-0.9616259
##	[93,]	0.1199040	-1.0139085	1.5720492
##	[94,]	-1.3844812	-1.0139085	1.5720492
##	[95,]	-1.3844812	1.2500140	-0.9616259
##	[96,]	0.1199040	-0.2592677	-0.1170675
##	[97,]	-1.3844812	1.2500140	-0.9616259
##	[98,]	-1.3844812	-0.2592677	-0.9616259
##	[99,]	1.6242891	0.4953731	-0.9616259
##	[100,]	0.8720965	-1.0139085	-0.9616259
##	[101,]	0.1199040	-0.2592677	-0.1170675
##	[102,]	-1.3844812	-1.0139085	-0.1170675
##	[103,]	-0.6322886	-1.0139085	1.5720492
##	[104,]	1.6242891	1.2500140	1.5720492
##	[105,]	0.1199040	0.4953731	-0.1170675
##	[106,]	-1.3844812	-1.0139085	-0.1170675
##	[107,]	1.6242891	0.4953731	1.5720492
##	[108,]	-0.6322886	-1.0139085	-0.9616259
##	[109,]	-0.6322886	-0.2592677	0.7274909
##	[110,]	0.1199040	-1.0139085	1.5720492
##	[111,]	0.8720965	1.2500140	-0.9616259
##	[112,]	-0.6322886	1.2500140	1.5720492
##	[113,]	1.6242891	1.2500140	-0.9616259

##	[114,]	-0.6322886	2.0046548	-0.9616259
##	[115,]	-1.3844812	-1.0139085	1.5720492
##	[116,]	1.6242891	0.4953731	-0.1170675
##	[117,]	-0.6322886	-1.0139085	-0.9616259
##	[118,]	0.8720965	-1.0139085	-0.9616259
##	[119,]	-0.6322886	-1.0139085	-0.9616259
##	[120,]	-0.6322886	0.4953731	-0.1170675
##	[121,]	0.8720965	0.4953731	-0.1170675
##	[122,]	-1.3844812	0.4953731	-0.9616259
##	[123,]	0.1199040	-1.0139085	0.7274909
##	[124,]	0.1199040	-1.0139085	0.7274909
##	[125,]	0.1199040	-1.0139085	0.7274909
##	[126,]	0.1199040	-0.2592677	-0.1170675
##	[127,]	-1.3844812	-1.0139085	-0.9616259
##	[128,]	-0.6322886	0.4953731	0.7274909
##	[129,]	1.6242891	2.0046548	-0.1170675
##	[130,]	0.1199040	-1.0139085	-0.9616259
##	[131,]	0.1199040	0.4953731	-0.1170675
##	[132,]	-1.3844812	0.4953731	-0.9616259
##	[133,]	-0.6322886	-1.0139085	-0.9616259
##	[134,]	0.1199040	-1.0139085	0.7274909
##	[135,]	0.8720965	1.2500140	-0.1170675
##	[136,]	-1.3844812	-1.0139085	0.7274909
##	[137,]	-1.3844812	-1.0139085	0.7274909
##	[138,]	0.8720965	-0.2592677	-0.1170675
##	[139,]	0.1199040	-1.0139085	-0.1170675
##	[140,]	-0.6322886	0.4953731	-0.1170675
##	[141,]	0.8720965	0.4953731	-0.1170675
##	[142,]	1.6242891	-0.2592677	-0.9616259
##	[143,]	0.1199040	-0.2592677	-0.9616259
##	[144,]	0.1199040	0.4953731	-0.9616259
##	[145,]	0.8720965	1.2500140	-0.1170675
##	[146,]	-0.6322886	0.4953731	-0.1170675
##	[147,]	-0.6322886	2.0046548	-0.9616259
##	[148,]	-0.6322886	-1.0139085	-0.9616259
##	[149,]	0.1199040	0.4953731	-0.1170675
##	[150,]	-1.3844812	-1.0139085	-0.1170675
##	[151,]	-1.3844812	-1.0139085	1.5720492
##	[152,]	-0.6322886	-0.2592677	-0.9616259
##	[153,]	-0.6322886	-0.2592677	-0.1170675
##	[154,]	0.1199040	0.4953731	0.7274909
##	[155,]	-0.6322886	-1.0139085	0.7274909
##	[156,]	-0.6322886	-0.2592677	0.7274909
##	[157,]	-0.6322886	-1.0139085	-0.1170675
##	[158,]	-1.3844812	-1.0139085	-0.1170675
##	[159,]	-0.6322886	2.0046548	-0.9616259
##	[160,]	0.1199040	0.4953731	0.7274909
##	[161,]	-1.3844812	0.4953731	-0.9616259
##	[162,]	-0.6322886	0.4953731	-0.1170675
##	[163,]	1.6242891	-1.0139085	0.7274909

##	[164,]	-1.3844812	2.0046548	-0.9616259
##	[165,]	-0.6322886	0.4953731	-0.1170675
##	[166,]	1.6242891	-0.2592677	-0.9616259
##	[167,]	-0.6322886	-1.0139085	2.4166076
##	[168,]	0.1199040	0.4953731	-0.1170675
##	[169,]	-1.3844812	-1.0139085	-0.9616259
##	[170,]	-1.3844812	-1.0139085	-0.9616259
##	[171,]	0.8720965	-1.0139085	-0.9616259
##	[172,]	-1.3844812	-1.0139085	-0.9616259
##	[173,]	-0.6322886	-1.0139085	0.7274909
##	[174,]	-1.3844812	2.0046548	1.5720492
##	[175,]	0.1199040	-1.0139085	2.4166076
##	[176,]	0.8720965	-0.2592677	-0.9616259
##	[177,]	-1.3844812	-0.2592677	-0.9616259
##	[178,]	-0.6322886	-1.0139085	0.7274909
##	[179,]	-0.6322886	-1.0139085	1.5720492
##	[180,]	-1.3844812	1.2500140	2.4166076
##	[181,]	-1.3844812	-1.0139085	-0.9616259
##	[182,]	1.6242891	0.4953731	0.7274909
##	[183,]	0.8720965	-1.0139085	2.4166076
##	[184,]	0.1199040	1.2500140	0.7274909
##	[185,]	-1.3844812	-1.0139085	-0.1170675
##	[186,]	1.6242891	0.4953731	-0.9616259
##	[187,]	0.1199040	-0.2592677	1.5720492
##	[188,]	-1.3844812	2.0046548	-0.9616259
##	[189,]	-0.6322886	-1.0139085	1.5720492
##	[190,]	-1.3844812	-1.0139085	1.5720492
##	[191,]	-0.6322886	-0.2592677	0.7274909
##	[192,]	0.1199040	-1.0139085	1.5720492
##	[193,]	0.1199040	1.2500140	-0.9616259
##	[194,]	-1.3844812	-1.0139085	0.7274909
##	[195,]	-1.3844812	-1.0139085	-0.9616259
##	[196,]	-0.6322886	-1.0139085	-0.1170675
##	[197,]	0.1199040	0.4953731	0.7274909
##	[198,]	0.1199040	-1.0139085	-0.9616259
##	[199,]	-0.6322886	-0.2592677	-0.1170675
##	[200,]	-0.6322886	1.2500140	-0.9616259
##	[201,]	-0.6322886	-0.2592677	-0.9616259
##	[202,]	0.1199040	-0.2592677	-0.9616259
##	[203,]	-1.3844812	1.2500140	-0.9616259
##	[204,]	0.8720965	0.4953731	0.7274909
##	[205,]	0.1199040	-1.0139085	-0.1170675
##	[206,]	0.8720965	-1.0139085	2.4166076
##	[207,]	-1.3844812	-1.0139085	2.4166076
##	[208,]	0.8720965	-1.0139085	1.5720492
##	[209,]	0.1199040	-1.0139085	-0.1170675
##	[210,]	0.8720965	-0.2592677	-0.1170675
##	[211,]	0.8720965	2.0046548	-0.9616259
##	[212,]	1.6242891	1.2500140	-0.9616259
##	[213,]	-1.3844812	-0.2592677	2.4166076

##	[214,]	0.1199040	2.0046548	-0.1170675
##	[215,]	0.1199040	-1.0139085	-0.1170675
##	[216,]	1.6242891	-1.0139085	-0.9616259
##	[217,]	-1.3844812	-0.2592677	-0.9616259
##	[218,]	0.1199040	-0.2592677	0.7274909
##	[219,]	-1.3844812	0.4953731	-0.1170675
##	[220,]	-0.6322886	2.0046548	-0.9616259
##	[221,]	0.1199040	-1.0139085	0.7274909
##	[222,]	0.1199040	1.2500140	0.7274909
##	[223,]	0.1199040	-1.0139085	-0.9616259
##	[224,]	1.6242891	-0.2592677	-0.1170675
##	[225,]	-0.6322886	-1.0139085	-0.1170675
##	[226,]	0.1199040	-0.2592677	-0.1170675
##	[227,]	0.8720965	0.4953731	-0.9616259
##	[228,]	0.8720965	-1.0139085	0.7274909
##	[229,]	0.1199040	-0.2592677	0.7274909
##	[230,]	-0.6322886	0.4953731	0.7274909
##	[231,]	1.6242891	-0.2592677	0.7274909
##	[232,]	1.6242891	-1.0139085	-0.9616259
##	[233,]	0.8720965	0.4953731	-0.9616259
##	[234,]	0.8720965	1.2500140	-0.9616259
##	[235,]	1.6242891	-1.0139085	-0.9616259
##	[236,]	0.8720965	-1.0139085	-0.1170675
##	[237,]	0.8720965	-1.0139085	-0.9616259
##	[238,]	1.6242891	0.4953731	-0.1170675
##	[239,]	0.8720965	-1.0139085	-0.9616259
##	[240,]	-0.6322886	-0.2592677	1.5720492
##	[241,]	-1.3844812	-0.2592677	-0.9616259
##	[242,]	-0.6322886	-1.0139085	1.5720492
##	[243,]	0.8720965	-1.0139085	0.7274909
##	[244,]	0.1199040	-1.0139085	-0.1170675
##	[245,]	1.6242891	-0.2592677	-0.9616259
##	[246,]	0.1199040	-1.0139085	-0.9616259
##	[247,]	1.6242891	-1.0139085	1.5720492
##	[248,]	0.8720965	-0.2592677	-0.9616259
##	[249,]	-0.6322886	0.4953731	0.7274909
##	[250,]	1.6242891	-0.2592677	1.5720492
##	[251,]	0.8720965	-0.2592677	-0.9616259
##	[252,]	0.8720965	2.0046548	-0.1170675
##	[253,]	0.8720965	-0.2592677	1.5720492
##	[254,]	-1.3844812	-1.0139085	-0.9616259
##	[255,]	1.6242891	0.4953731	-0.1170675
##	[256,]	1.6242891	-1.0139085	1.5720492
##	[257,]	1.6242891	-1.0139085	-0.9616259
##	[258,]	-0.6322886	2.0046548	-0.1170675
##	[259,]	-0.6322886	-1.0139085	-0.9616259
##	[260,]	1.6242891	-1.0139085	2.4166076
##	[261,]	0.1199040	0.4953731	0.7274909
##	[262,]	0.1199040	-1.0139085	-0.9616259
##	[263,]	-0.6322886	0.4953731	1.5720492

##	[264,]	1.6242891	0.4953731	-0.1170675
##	[265,]	0.1199040	0.4953731	0.7274909
##	[266,]	-1.3844812	-1.0139085	-0.9616259
##	[267,]	0.8720965	-1.0139085	-0.1170675
##	[268,]	0.1199040	-0.2592677	0.7274909
##	[269,]	1.6242891	-1.0139085	-0.1170675
##	[270,]	0.8720965	-0.2592677	1.5720492
##	[271,]	0.1199040	-0.2592677	-0.9616259
##	[272,]	-0.6322886	-1.0139085	-0.9616259
##	[273,]	-0.6322886	-1.0139085	2.4166076
##	[274,]	0.8720965	1.2500140	0.7274909
##	[275,]	0.1199040	-0.2592677	-0.9616259
##	[276,]	1.6242891	1.2500140	0.7274909
##	[277,]	0.1199040	-1.0139085	-0.9616259
##	[278,]	-0.6322886	-0.2592677	-0.1170675
##	[279,]	0.8720965	0.4953731	0.7274909
##	[280,]	-0.6322886	-0.2592677	-0.9616259
##	[281,]	1.6242891	2.0046548	-0.1170675
##	[282,]	1.6242891	0.4953731	-0.1170675
##	[283,]	0.1199040	-1.0139085	-0.9616259
##	[284,]	0.1199040	0.4953731	-0.1170675
##	[285,]	-1.3844812	-1.0139085	-0.9616259
##	[286,]	-1.3844812	-1.0139085	1.5720492
##	[287,]	0.8720965	-1.0139085	-0.9616259
##	[288,]	-0.6322886	0.4953731	0.7274909
##	[289,]	0.8720965	2.0046548	-0.9616259
##	[290,]	-0.6322886	-0.2592677	0.7274909
##	[291,]	0.8720965	-1.0139085	-0.9616259
##	[292,]	0.1199040	-0.2592677	0.7274909
##	[293,]	1.6242891	-0.2592677	-0.9616259
##	[294,]	-0.6322886	-1.0139085	-0.1170675
##	[295,]	0.8720965	-1.0139085	-0.1170675
##	[296,]	0.1199040	-1.0139085	1.5720492
##	[297,]	-1.3844812	2.0046548	-0.9616259
##	[298,]	-0.6322886	1.2500140	-0.1170675
##	[299,]	1.6242891	-0.2592677	-0.9616259
##	[300,]	0.1199040	-1.0139085	-0.1170675
##	[301,]	-1.3844812	-1.0139085	2.4166076
##	[302,]	-1.3844812	-1.0139085	1.5720492
##	[303,]	1.6242891	-1.0139085	-0.1170675
##	[304,]	1.6242891	-1.0139085	-0.9616259
##	[305,]	-0.6322886	-1.0139085	0.7274909
##	[306,]	-1.3844812	-1.0139085	-0.1170675
##	[307,]	1.6242891	1.2500140	-0.9616259
##	[308,]	0.1199040	-1.0139085	-0.9616259
##	[309,]	0.1199040	1.2500140	-0.9616259
##	[310,]	-0.6322886	-0.2592677	-0.9616259
##	[311,]	0.1199040	2.0046548	0.7274909
##	[312,]	1.6242891	-0.2592677	2.4166076
##	[313,]	-1.3844812	-0.2592677	-0.9616259

##	[314,]	0.8720965	-0.2592677	-0.1170675
##	[315,]	1.6242891	2.0046548	1.5720492
##	[316,]	-0.6322886	-1.0139085	-0.1170675
##	[317,]	-0.6322886	1.2500140	-0.1170675
##	[318,]	0.8720965	1.2500140	-0.9616259
##	[319,]	0.1199040	-0.2592677	-0.9616259
##	[320,]	0.8720965	0.4953731	-0.1170675
##	[321,]	-0.6322886	1.2500140	-0.9616259
##	[322,]	0.8720965	0.4953731	-0.9616259
##	[323,]	0.1199040	-1.0139085	-0.1170675
##	[324,]	0.1199040	-1.0139085	2.4166076
##	[325,]	0.1199040	-0.2592677	-0.1170675
##	[326,]	0.1199040	1.2500140	-0.1170675
##	[327,]	0.1199040	0.4953731	-0.9616259
##	[328,]	0.1199040	-1.0139085	-0.1170675
##	[329,]	0.1199040	-1.0139085	-0.9616259
##	[330,]	-0.6322886	0.4953731	-0.9616259
##	[331,]	-1.3844812	0.4953731	-0.1170675
##	[332,]	-0.6322886	1.2500140	-0.9616259
##	[333,]	1.6242891	-1.0139085	-0.9616259
##	[334,]	0.1199040	-0.2592677	-0.1170675
##	[335,]	0.8720965	-1.0139085	-0.9616259
##	[336,]	-0.6322886	1.2500140	-0.1170675
##	[337,]	-1.3844812	1.2500140	-0.1170675
##	[338,]	-1.3844812	2.0046548	0.7274909
##	[339,]	-1.3844812	-0.2592677	-0.1170675
##	[340,]	-0.6322886	-1.0139085	0.7274909
##	[341,]	-0.6322886	-1.0139085	0.7274909
##	[342,]	-1.3844812	2.0046548	-0.9616259
##	[343,]	0.8720965	0.4953731	-0.1170675
##	[344,]	1.6242891	-1.0139085	-0.1170675
##	[345,]	0.1199040	-1.0139085	-0.9616259
##	[346,]	-0.6322886	0.4953731	-0.9616259
##	[347,]	-0.6322886	1.2500140	-0.9616259
##	[348,]	-1.3844812	-0.2592677	-0.9616259
##	[349,]	0.1199040	-0.2592677	2.4166076
##	[350,]	-0.6322886	1.2500140	-0.9616259
##	[351,]	-1.3844812	-0.2592677	-0.9616259
##	[352,]	0.1199040	-1.0139085	0.7274909
##	[353,]	-0.6322886	-1.0139085	-0.1170675
##	[354,]	-0.6322886	-1.0139085	0.7274909
##	[355,]	-0.6322886	0.4953731	1.5720492
##	[356,]	0.1199040	-0.2592677	-0.9616259
##	[357,]	0.1199040	-0.2592677	0.7274909
##	[358,]	0.8720965	0.4953731	-0.1170675
##	[359,]	-0.6322886	-0.2592677	0.7274909
##	[360,]	0.1199040	-0.2592677	0.7274909
##	[361,]	0.1199040	-1.0139085	-0.1170675
##	[362,]	-1.3844812	-1.0139085	-0.9616259
##	[363,]	0.8720965	-0.2592677	1.5720492

##	[364,]	0.8720965	-1.0139085	2.4166076
##	[365,]	-1.3844812	-0.2592677	-0.9616259
##	[366,]	-1.3844812	-0.2592677	1.5720492
##	[367,]	-1.3844812	0.4953731	-0.9616259
##	[368,]	-1.3844812	0.4953731	-0.9616259
##	[369,]	1.6242891	-0.2592677	0.7274909
##	[370,]	-1.3844812	2.0046548	-0.9616259
##	[371,]	0.8720965	-1.0139085	-0.1170675
##	[372,]	1.6242891	-0.2592677	2.4166076
##	[373,]	-0.6322886	1.2500140	-0.1170675
##	[374,]	-1.3844812	-1.0139085	-0.9616259
##	[375,]	-0.6322886	0.4953731	-0.9616259
##	[376,]	0.1199040	0.4953731	-0.9616259
##	[377,]	-0.6322886	-1.0139085	-0.9616259
##	[378,]	0.1199040	-1.0139085	-0.9616259
##	[379,]	0.1199040	0.4953731	-0.9616259
##	[380,]	0.8720965	-0.2592677	1.5720492
##	[381,]	1.6242891	2.0046548	-0.9616259
##	[382,]	-0.6322886	-1.0139085	1.5720492
##	[383,]	1.6242891	1.2500140	-0.9616259
##	[384,]	-1.3844812	-0.2592677	0.7274909
##	[385,]	-0.6322886	-1.0139085	-0.9616259
##	[386,]	1.6242891	0.4953731	0.7274909
##	[387,]	-0.6322886	1.2500140	-0.9616259
##	[388,]	1.6242891	-0.2592677	-0.9616259
##	[389,]	1.6242891	0.4953731	0.7274909
##	[390,]	1.6242891	-1.0139085	-0.1170675
##	[391,]	0.1199040	0.4953731	0.7274909
##	[392,]	-0.6322886	-1.0139085	-0.1170675
##	[393,]	1.6242891	-0.2592677	-0.9616259
##	[394,]	-1.3844812	-1.0139085	-0.9616259
##	[395,]	-0.6322886	-1.0139085	-0.9616259
##	[396,]	-1.3844812	2.0046548	-0.9616259
##	[397,]	-0.6322886	-0.2592677	2.4166076
##	[398,]	0.8720965	-1.0139085	-0.9616259
##	[399,]	0.8720965	2.0046548	-0.1170675
##	[400,]	-0.6322886	-1.0139085	2.4166076
##	[401,]	-1.3844812	1.2500140	0.7274909
##	[402,]	0.1199040	-1.0139085	-0.1170675
##	[403,]	-1.3844812	0.4953731	0.7274909
##	[404,]	0.1199040	-1.0139085	0.7274909
##	[405,]	-1.3844812	2.0046548	0.7274909
##	[406,]	0.1199040	-0.2592677	0.7274909
##	[407,]	1.6242891	1.2500140	1.5720492
##	[408,]	-0.6322886	-0.2592677	-0.1170675
##	[409,]	1.6242891	-1.0139085	2.4166076
##	[410,]	-0.6322886	1.2500140	-0.9616259
##	[411,]	-1.3844812	-1.0139085	-0.9616259
##	[412,]	1.6242891	-0.2592677	-0.1170675
##	[413,]	-1.3844812	2.0046548	-0.9616259

##	[414,]	-0.6322886	0.4953731	-0.1170675
##	[415,]	-0.6322886	-0.2592677	-0.1170675
##	[416,]	0.1199040	0.4953731	-0.9616259
##	[417,]	0.1199040	1.2500140	-0.9616259
##	[418,]	-1.3844812	-1.0139085	-0.1170675
##	[419,]	0.8720965	-1.0139085	-0.1170675
##	[420,]	0.1199040	0.4953731	2.4166076
##	[421,]	-1.3844812	-1.0139085	0.7274909
##	[422,]	0.1199040	-0.2592677	0.7274909
##	[423,]	1.6242891	2.0046548	0.7274909
##	[424,]	0.1199040	-0.2592677	0.7274909
##	[425,]	-0.6322886	2.0046548	-0.9616259
##	[426,]	-1.3844812	-0.2592677	0.7274909
##	[427,]	-0.6322886	-1.0139085	-0.9616259
##	[428,]	0.1199040	-0.2592677	1.5720492
##	[429,]	-0.6322886	0.4953731	0.7274909
##	[430,]	-1.3844812	-1.0139085	-0.1170675
##	[431,]	0.8720965	0.4953731	-0.1170675
##	[432,]	0.8720965	2.0046548	1.5720492
##	[433,]	0.1199040	-1.0139085	-0.9616259
##	[434,]	0.1199040	-0.2592677	-0.1170675
##	[435,]	1.6242891	1.2500140	-0.9616259
##	[436,]	-1.3844812	-1.0139085	-0.9616259
##	[437,]	0.8720965	0.4953731	-0.1170675
##	[438,]	-1.3844812	1.2500140	-0.9616259
##	[439,]	-0.6322886	-1.0139085	-0.1170675
##	[440,]	-0.6322886	1.2500140	-0.9616259
##	[441,]	0.1199040	1.2500140	-0.9616259
##	[442,]	1.6242891	-1.0139085	-0.9616259
##	[443,]	-0.6322886	-0.2592677	-0.9616259
##	[444,]	0.1199040	0.4953731	0.7274909
##	[445,]	-0.6322886	1.2500140	-0.1170675
##	[446,]	1.6242891	-1.0139085	-0.9616259
##	[447,]	-1.3844812	1.2500140	-0.9616259
##	[448,]	-1.3844812	-1.0139085	-0.1170675
##	[449,]	-0.6322886	0.4953731	-0.1170675
##	[450,]	1.6242891	-1.0139085	-0.9616259
##	[451,]	0.1199040	-1.0139085	1.5720492
##	[452,]	0.1199040	0.4953731	-0.9616259
##	[453,]	-1.3844812	0.4953731	-0.9616259
##	[454,]	1.6242891	-1.0139085	-0.9616259
##	[455,]	-0.6322886	-1.0139085	-0.9616259
##	[456,]	-0.6322886	1.2500140	-0.1170675
##	[457,]	-1.3844812	-1.0139085	-0.9616259
##	[458,]	-0.6322886	1.2500140	-0.9616259
##	[459,]	1.6242891	2.0046548	2.4166076
##	[460,]	-0.6322886	0.4953731	0.7274909
##	[461,]	-1.3844812	-1.0139085	-0.9616259
##	[462,]	0.8720965	-0.2592677	1.5720492
##	[463,]	-0.6322886	0.4953731	-0.9616259

##	[464,]	1.6242891	-1.0139085	-0.9616259
##	[465,]	1.6242891	0.4953731	-0.1170675
##	[466,]	1.6242891	-0.2592677	-0.1170675
##	[467,]	0.1199040	2.0046548	-0.9616259
##	[468,]	-0.6322886	-0.2592677	-0.9616259
##	[469,]	-0.6322886	-0.2592677	-0.1170675
##	[470,]	-1.3844812	1.2500140	-0.9616259
##	[471,]	0.1199040	-1.0139085	0.7274909
##	[472,]	-0.6322886	-0.2592677	-0.9616259
##	[473,]	-1.3844812	-1.0139085	-0.1170675
##	[474,]	-1.3844812	-1.0139085	-0.9616259
##	[475,]	-1.3844812	2.0046548	-0.9616259
##	[476,]	0.8720965	-1.0139085	-0.1170675
##	[477,]	1.6242891	-1.0139085	-0.1170675
##	[478,]	-0.6322886	-1.0139085	-0.9616259
##	[479,]	-0.6322886	0.4953731	-0.1170675
##	[480,]	0.8720965	-0.2592677	-0.1170675
##	[481,]	1.6242891	1.2500140	1.5720492
##	[482,]	-1.3844812	2.0046548	1.5720492
##	[483,]	-1.3844812	-1.0139085	-0.9616259
##	[484,]	1.6242891	-1.0139085	-0.9616259
##	[485,]	-0.6322886	-0.2592677	-0.1170675
##	[486,]	0.8720965	-1.0139085	-0.9616259
##	[487,]	0.1199040	-0.2592677	-0.9616259
##	[488,]	-1.3844812	-1.0139085	-0.9616259
##	[489,]	0.1199040	-1.0139085	1.5720492
##	[490,]	-1.3844812	-1.0139085	-0.9616259
##	[491,]	1.6242891	1.2500140	-0.1170675
##	[492,]	1.6242891	-1.0139085	-0.1170675
##	[493,]	0.1199040	-0.2592677	-0.1170675
##	[494,]	0.8720965	-0.2592677	-0.9616259
##	[495,]	-0.6322886	-1.0139085	-0.1170675
##	[496,]	-0.6322886	-0.2592677	-0.9616259
##	[497,]	0.8720965	-0.2592677	1.5720492
##	[498,]	0.8720965	-1.0139085	2.4166076
##	[499,]	0.1199040	-1.0139085	-0.9616259
##	[500,]	-1.3844812	0.4953731	-0.1170675
##	[501,]	0.8720965	1.2500140	1.5720492
##	[502,]	1.6242891	-0.2592677	-0.1170675
##	[503,]	-1.3844812	0.4953731	0.7274909
##	[504,]	0.8720965	2.0046548	1.5720492
##	[505,]	-0.6322886	-1.0139085	-0.9616259
##	[506,]	-0.6322886	-1.0139085	-0.9616259
##	[507,]	-1.3844812	-0.2592677	-0.9616259
##	[508,]	0.8720965	-1.0139085	-0.1170675
##	[509,]	-1.3844812	-1.0139085	-0.9616259
##	[510,]	0.1199040	1.2500140	-0.9616259
##	[511,]	0.1199040	-0.2592677	1.5720492
##	[512,]	-0.6322886	-1.0139085	-0.9616259
##	[513,]	0.8720965	1.2500140	-0.1170675

##	[514,]	0.1199040	0.4953731	-0.9616259
##	[515,]	-0.6322886	-1.0139085	-0.1170675
##	[516,]	-0.6322886	-1.0139085	-0.1170675
##	[517,]	-0.6322886	1.2500140	0.7274909
##	[518,]	0.8720965	1.2500140	1.5720492
##	[519,]	1.6242891	1.2500140	1.5720492
##	[520,]	-0.6322886	1.2500140	-0.9616259
##	[521,]	0.8720965	-0.2592677	-0.9616259
##	[522,]	1.6242891	0.4953731	0.7274909
##	[523,]	0.8720965	1.2500140	0.7274909
##	[524,]	-0.6322886	0.4953731	-0.9616259
##	[525,]	-0.6322886	-1.0139085	0.7274909
##	[526,]	0.1199040	-1.0139085	0.7274909
##	[527,]	0.1199040	-1.0139085	-0.9616259
##	[528,]	0.8720965	-0.2592677	-0.9616259
##	[529,]	-1.3844812	0.4953731	-0.1170675
##	[530,]	0.1199040	-1.0139085	-0.1170675
##	[531,]	0.1199040	-1.0139085	-0.9616259
##	[532,]	-0.6322886	-1.0139085	-0.9616259
##	[533,]	0.8720965	1.2500140	-0.1170675
##	[534,]	0.1199040	0.4953731	-0.1170675
##	[535,]	0.8720965	-0.2592677	-0.1170675
##	[536,]	0.8720965	1.2500140	-0.9616259
##	[537,]	0.1199040	2.0046548	-0.9616259
##	[538,]	-1.3844812	-0.2592677	0.7274909
##	[539,]	0.1199040	0.4953731	-0.1170675
##	[540,]	-1.3844812	-1.0139085	1.5720492
##	[541,]	0.1199040	0.4953731	2.4166076
##	[542,]	0.1199040	-1.0139085	-0.9616259
##	[543,]	0.8720965	-0.2592677	-0.1170675
##	[544,]	0.8720965	1.2500140	-0.1170675
##	[545,]	0.1199040	-1.0139085	0.7274909
##	[546,]	-1.3844812	0.4953731	-0.9616259
##	[547,]	1.6242891	-1.0139085	2.4166076
##	[548,]	-1.3844812	-1.0139085	2.4166076
##	[549,]	-1.3844812	-1.0139085	-0.9616259
##	[550,]	0.8720965	1.2500140	-0.1170675
##	[551,]	-0.6322886	-1.0139085	-0.1170675
##	[552,]	-0.6322886	-1.0139085	-0.1170675
##	[553,]	1.6242891	-0.2592677	-0.1170675
##	[554,]	-0.6322886	0.4953731	-0.1170675
##	[555,]	0.1199040	0.4953731	-0.9616259
##	[556,]	0.8720965	-0.2592677	-0.9616259
##	[557,]	-1.3844812	-0.2592677	-0.9616259
##	[558,]	0.1199040	-1.0139085	-0.1170675
##	[559,]	1.6242891	-0.2592677	-0.1170675
##	[560,]	-1.3844812	-1.0139085	-0.9616259
##	[561,]	0.8720965	-0.2592677	0.7274909
##	[562,]	0.8720965	1.2500140	0.7274909
##	[563,]	-1.3844812	-1.0139085	-0.9616259

##	[564,]	-1.3844812	-0.2592677	-0.9616259
##	[565,]	-1.3844812	-0.2592677	-0.9616259
##	[566,]	-0.6322886	0.4953731	0.7274909
##	[567,]	0.1199040	-0.2592677	-0.9616259
##	[568,]	-0.6322886	-0.2592677	-0.9616259
##	[569,]	0.1199040	0.4953731	-0.9616259
##	[570,]	0.1199040	-0.2592677	-0.9616259
##	[571,]	-0.6322886	-1.0139085	-0.9616259
##	[572,]	-1.3844812	1.2500140	-0.9616259
##	[573,]	-1.3844812	-1.0139085	-0.1170675
##	[574,]	-1.3844812	1.2500140	-0.9616259
##	[575,]	-0.6322886	2.0046548	-0.9616259
##	[576,]	1.6242891	-0.2592677	-0.1170675
##	[577,]	-0.6322886	0.4953731	-0.1170675
##	[578,]	-0.6322886	-0.2592677	-0.9616259
##	[579,]	0.8720965	-1.0139085	-0.1170675
##	[580,]	-0.6322886	2.0046548	-0.9616259
##	[581,]	-1.3844812	0.4953731	-0.9616259
##	[582,]	-0.6322886	2.0046548	-0.9616259
##	[583,]	0.1199040	1.2500140	-0.1170675
##	[584,]	0.1199040	-1.0139085	-0.9616259
##	[585,]	0.8720965	1.2500140	-0.1170675
##	[586,]	0.8720965	1.2500140	-0.1170675
##	[587,]	0.1199040	2.0046548	-0.9616259
##	[588,]	-1.3844812	-0.2592677	-0.9616259
##	[589,]	1.6242891	-1.0139085	-0.1170675
##	[590,]	-0.6322886	-0.2592677	-0.1170675
##	[591,]	0.8720965	-1.0139085	-0.1170675
##	[592,]	1.6242891	-1.0139085	-0.1170675
##	[593,]	1.6242891	1.2500140	-0.9616259
##	[594,]	0.8720965	-1.0139085	-0.1170675
##	[595,]	-1.3844812	-1.0139085	0.7274909
##	[596,]	-1.3844812	-1.0139085	-0.9616259
##	[597,]	-0.6322886	2.0046548	-0.9616259
##	[598,]	0.1199040	0.4953731	-0.1170675
##	[599,]	1.6242891	0.4953731	-0.1170675
##	[600,]	-0.6322886	0.4953731	-0.9616259
##	[601,]	-1.3844812	1.2500140	-0.9616259
##	[602,]	0.8720965	-1.0139085	-0.1170675
##	[603,]	0.1199040	0.4953731	-0.9616259
##	[604,]	0.8720965	1.2500140	-0.1170675
##	[605,]	-0.6322886	-1.0139085	-0.9616259
##	[606,]	-1.3844812	-1.0139085	-0.1170675
##	[607,]	-0.6322886	-1.0139085	-0.1170675
##	[608,]	0.8720965	-1.0139085	-0.1170675
##	[609,]	0.8720965	-1.0139085	2.4166076
##	[610,]	-0.6322886	1.2500140	0.7274909
##	[611,]	-0.6322886	0.4953731	-0.1170675
##	[612,]	-1.3844812	0.4953731	-0.9616259
##	[613,]	1.6242891	2.0046548	0.7274909

##	[614,]	0.8720965	0.4953731	-0.9616259
##	[615,]	-0.6322886	2.0046548	-0.9616259
##	[616,]	0.1199040	0.4953731	-0.1170675
##	[617,]	0.8720965	1.2500140	-0.9616259
##	[618,]	1.6242891	-1.0139085	2.4166076
##	[619,]	1.6242891	-1.0139085	2.4166076
##	[620,]	0.1199040	-0.2592677	2.4166076
##	[621,]	-0.6322886	-0.2592677	-0.9616259
##	[622,]	-0.6322886	2.0046548	-0.9616259
##	[623,]	0.1199040	1.2500140	0.7274909
##	[624,]	-1.3844812	-1.0139085	-0.9616259
##	[625,]	-0.6322886	-1.0139085	-0.9616259
##	[626,]	1.6242891	-0.2592677	-0.9616259
##	[627,]	0.1199040	1.2500140	-0.1170675
##	[628,]	0.1199040	-0.2592677	-0.9616259
##	[629,]	0.1199040	-0.2592677	-0.9616259
##	[630,]	1.6242891	0.4953731	-0.1170675
##	[631,]	1.6242891	2.0046548	-0.9616259
##	[632,]	1.6242891	0.4953731	0.7274909
##	[633,]	-0.6322886	1.2500140	-0.1170675
##	[634,]	0.1199040	-1.0139085	-0.9616259
##	[635,]	0.1199040	-0.2592677	0.7274909
##	[636,]	0.8720965	-1.0139085	-0.1170675
##	[637,]	1.6242891	0.4953731	1.5720492
##	[638,]	-1.3844812	-0.2592677	0.7274909
##	[639,]	0.1199040	-1.0139085	0.7274909
##	[640,]	-1.3844812	-1.0139085	-0.9616259
##	[641,]	-1.3844812	-1.0139085	-0.9616259
##	[642,]	0.1199040	0.4953731	0.7274909
##	[643,]	0.1199040	0.4953731	2.4166076
##	[644,]	1.6242891	-0.2592677	1.5720492
##	[645,]	0.1199040	-1.0139085	-0.1170675
##	[646,]	0.8720965	2.0046548	0.7274909
##	[647,]	0.1199040	-0.2592677	-0.1170675
##	[648,]	1.6242891	-1.0139085	-0.9616259
##	[649,]	1.6242891	-0.2592677	-0.1170675
##	[650,]	0.1199040	-0.2592677	-0.1170675
##	[651,]	-0.6322886	0.4953731	-0.9616259
##	[652,]	0.8720965	1.2500140	0.7274909
##	[653,]	-0.6322886	-1.0139085	-0.9616259
##	[654,]	0.8720965	-1.0139085	1.5720492
##	[655,]	0.8720965	0.4953731	-0.1170675
##	[656,]	-0.6322886	1.2500140	-0.9616259
##	[657,]	-1.3844812	-1.0139085	1.5720492
##	[658,]	-0.6322886	-1.0139085	-0.9616259
##	[659,]	-0.6322886	1.2500140	-0.9616259
##	[660,]	-0.6322886	-1.0139085	-0.1170675
##	[661,]	-0.6322886	-1.0139085	-0.1170675
##	[662,]	-1.3844812	-0.2592677	-0.9616259
##	[663,]	-1.3844812	-0.2592677	-0.1170675

##	[664,]	0.1199040	-0.2592677	-0.1170675
##	[665,]	1.6242891	-1.0139085	0.7274909
##	[666,]	0.1199040	1.2500140	1.5720492
##	[667,]	-1.3844812	-1.0139085	-0.9616259
##	[668,]	-0.6322886	-1.0139085	-0.1170675
##	[669,]	0.8720965	-1.0139085	-0.1170675
##	[670,]	0.8720965	1.2500140	-0.1170675
##	[671,]	1.6242891	-0.2592677	-0.1170675
##	[672,]	0.8720965	1.2500140	0.7274909
##	[673,]	0.1199040	-1.0139085	2.4166076
##	[674,]	0.8720965	-1.0139085	1.5720492
##	[675,]	0.1199040	-1.0139085	-0.9616259
##	[676,]	0.1199040	0.4953731	-0.1170675
##	[677,]	-0.6322886	-0.2592677	-0.1170675
##	[678,]	0.8720965	-1.0139085	-0.9616259
##	[679,]	0.8720965	-1.0139085	2.4166076
##	[680,]	-0.6322886	0.4953731	-0.9616259
##	[681,]	1.6242891	2.0046548	-0.9616259
##	[682,]	0.8720965	1.2500140	1.5720492
##	[683,]	-0.6322886	2.0046548	-0.1170675
##	[684,]	1.6242891	-1.0139085	-0.9616259
##	[685,]	0.8720965	-1.0139085	-0.9616259
##	[686,]	0.8720965	0.4953731	-0.1170675
##	[687,]	0.1199040	0.4953731	0.7274909
##	[688,]	-0.6322886	-1.0139085	-0.9616259
##	[689,]	0.8720965	-1.0139085	-0.9616259
##	[690,]	0.8720965	0.4953731	-0.1170675
##	[691,]	0.1199040	0.4953731	-0.1170675
##	[692,]	0.8720965	-0.2592677	-0.1170675
##	[693,]	-0.6322886	-0.2592677	-0.1170675
##	[694,]	0.8720965	1.2500140	-0.9616259
##	[695,]	1.6242891	1.2500140	0.7274909
##	[696,]	0.8720965	0.4953731	1.5720492
##	[697,]	0.1199040	0.4953731	-0.9616259
##	[698,]	0.1199040	-1.0139085	-0.1170675
##	[699,]	1.6242891	-0.2592677	-0.1170675
##	[700,]	1.6242891	-0.2592677	-0.9616259
##	[701,]	0.8720965	-1.0139085	-0.9616259
##	[702,]	0.1199040	2.0046548	1.5720492
##	[703,]	0.1199040	-1.0139085	1.5720492
##	[704,]	0.1199040	-1.0139085	-0.1170675
##	[705,]	1.6242891	-0.2592677	-0.9616259
##	[706,]	0.1199040	0.4953731	-0.1170675
##	[707,]	-0.6322886	0.4953731	-0.1170675
##	[708,]	-0.6322886	-0.2592677	1.5720492
##	[709,]	-1.3844812	1.2500140	-0.9616259
##	[710,]	0.8720965	-0.2592677	-0.1170675
##	[711,]	-0.6322886	-1.0139085	-0.9616259
##	[712,]	0.8720965	-1.0139085	-0.9616259
##	[713,]	0.8720965	-1.0139085	0.7274909

##	[714,]	0.8720965	-0.2592677	-0.1170675
##	[715,]	0.1199040	0.4953731	-0.9616259
##	[716,]	0.1199040	-1.0139085	0.7274909
##	[717,]	-0.6322886	0.4953731	0.7274909
##	[718,]	-1.3844812	-1.0139085	-0.9616259
##	[719,]	-0.6322886	-0.2592677	1.5720492
##	[720,]	-0.6322886	0.4953731	-0.9616259
##	[721,]	0.8720965	-0.2592677	1.5720492
##	[722,]	0.1199040	-1.0139085	-0.1170675
##	[723,]	1.6242891	-0.2592677	-0.1170675
##	[724,]	-0.6322886	-1.0139085	-0.1170675
##	[725,]	1.6242891	-0.2592677	0.7274909
##	[726,]	0.1199040	0.4953731	-0.9616259
##	[727,]	-0.6322886	1.2500140	-0.9616259
##	[728,]	1.6242891	2.0046548	-0.9616259
##	[729,]	-0.6322886	0.4953731	-0.9616259
##	[730,]	0.1199040	0.4953731	0.7274909
##	[731,]	-1.3844812	-1.0139085	-0.1170675
##	[732,]	0.1199040	-0.2592677	-0.1170675
##	[733,]	0.1199040	-0.2592677	-0.1170675
##	[734,]	1.6242891	-1.0139085	1.5720492
##	[735,]	0.8720965	-1.0139085	2.4166076
##	[736,]	-1.3844812	-1.0139085	0.7274909
##	[737,]	1.6242891	-0.2592677	1.5720492
##	[738,]	0.8720965	0.4953731	-0.1170675
##	[739,]	-1.3844812	1.2500140	-0.1170675
##	[740,]	0.1199040	0.4953731	1.5720492
##	[741,]	0.1199040	-0.2592677	-0.9616259
##	[742,]	0.8720965	-1.0139085	2.4166076
##	[743,]	1.6242891	2.0046548	-0.1170675
##	[744,]	-0.6322886	-1.0139085	-0.9616259
##	[745,]	0.1199040	-1.0139085	0.7274909
##	[746,]	1.6242891	2.0046548	-0.1170675
##	[747,]	0.8720965	-0.2592677	-0.1170675
##	[748,]	0.1199040	0.4953731	2.4166076
##	[749,]	0.1199040	0.4953731	0.7274909
##	[750,]	-1.3844812	-1.0139085	-0.9616259
##	[751,]	1.6242891	-1.0139085	1.5720492
##	[752,]	0.8720965	-0.2592677	2.4166076
##	[753,]	1.6242891	1.2500140	-0.1170675
##	[754,]	0.1199040	-1.0139085	-0.1170675
##	[755,]	0.8720965	0.4953731	0.7274909
##	[756,]	0.1199040	-1.0139085	-0.9616259
##	[757,]	0.1199040	1.2500140	-0.1170675
##	[758,]	1.6242891	2.0046548	0.7274909
##	[759,]	-1.3844812	2.0046548	-0.9616259
##	[760,]	0.8720965	-0.2592677	2.4166076
##	[761,]	-0.6322886	0.4953731	-0.1170675
##	[762,]	-1.3844812	-0.2592677	-0.9616259
##	[763,]	-1.3844812	0.4953731	-0.9616259

##	[764,]	-1.3844812	0.4953731	0.7274909
##	[765,]	0.8720965	-1.0139085	0.7274909
##	[766,]	-0.6322886	-0.2592677	-0.9616259
##	[767,]	0.8720965	1.2500140	1.5720492
##	[768,]	0.1199040	-0.2592677	0.7274909
##	[769,]	0.1199040	0.4953731	-0.9616259
##	[770,]	0.1199040	0.4953731	0.7274909
##	[771,]	-1.3844812	-1.0139085	-0.9616259
##	[772,]	-0.6322886	-1.0139085	1.5720492
##	[773,]	0.8720965	-1.0139085	-0.1170675
##	[774,]	0.8720965	-0.2592677	-0.1170675
##	[775,]	0.1199040	-1.0139085	1.5720492
##	[776,]	0.8720965	2.0046548	1.5720492
##	[777,]	1.6242891	2.0046548	0.7274909
##	[778,]	0.1199040	0.4953731	-0.1170675
##	[779,]	-1.3844812	-1.0139085	-0.9616259
##	[780,]	-0.6322886	0.4953731	0.7274909
##	[781,]	0.8720965	1.2500140	-0.1170675
##	[782,]	0.1199040	-0.2592677	0.7274909
##	[783,]	0.8720965	-0.2592677	0.7274909
##	[784,]	0.1199040	1.2500140	0.7274909
##	[785,]	0.1199040	1.2500140	0.7274909
##	[786,]	0.1199040	-1.0139085	0.7274909
##	[787,]	0.8720965	0.4953731	-0.1170675
##	[788,]	0.1199040	0.4953731	-0.9616259
##	[789,]	0.1199040	-1.0139085	-0.1170675
##	[790,]	0.1199040	1.2500140	1.5720492
##	[791,]	-1.3844812	1.2500140	-0.9616259
##	[792,]	0.1199040	0.4953731	-0.1170675
##	[793,]	0.1199040	0.4953731	-0.9616259
##	[794,]	0.8720965	1.2500140	-0.1170675
##	[795,]	-1.3844812	-1.0139085	-0.9616259
##	[796,]	1.6242891	-1.0139085	2.4166076
##	[797,]	0.8720965	-0.2592677	0.7274909
##	[798,]	-1.3844812	0.4953731	-0.9616259
##	[799,]	-0.6322886	-0.2592677	-0.1170675
##	[800,]	-0.6322886	-0.2592677	1.5720492
##	[801,]	-1.3844812	-1.0139085	-0.9616259
##	[802,]	-1.3844812	1.2500140	-0.9616259
##	[803,]	-0.6322886	1.2500140	-0.1170675
##	[804,]	-1.3844812	-1.0139085	-0.1170675
##	[805,]	-0.6322886	-0.2592677	-0.1170675
##	[806,]	0.1199040	0.4953731	0.7274909
##	[807,]	-1.3844812	-1.0139085	-0.9616259
##	[808,]	-1.3844812	-1.0139085	1.5720492
##	[809,]	-0.6322886	0.4953731	-0.9616259
##	[810,]	-1.3844812	-1.0139085	-0.9616259
##	[811,]	-0.6322886	-1.0139085	2.4166076
##	[812,]	-0.6322886	-1.0139085	1.5720492
##	[813,]	-1.3844812	-1.0139085	-0.9616259

##	[814,]	-1.3844812	-1.0139085	-0.9616259
##	[815,]	-0.6322886	2.0046548	1.5720492
##	[816,]	0.8720965	-0.2592677	-0.1170675
##	[817,]	0.8720965	0.4953731	-0.1170675
##	[818,]	-1.3844812	-1.0139085	-0.1170675
##	[819,]	-1.3844812	1.2500140	-0.9616259
##	[820,]	1.6242891	-0.2592677	-0.9616259
##	[821,]	0.1199040	-1.0139085	1.5720492
##	[822,]	-0.6322886	-1.0139085	1.5720492
##	[823,]	0.8720965	-1.0139085	-0.1170675
##	[824,]	0.1199040	0.4953731	-0.9616259
##	[825,]	-0.6322886	-1.0139085	2.4166076
##	[826,]	-0.6322886	-1.0139085	-0.1170675
##	[827,]	0.8720965	-1.0139085	1.5720492
##	[828,]	-0.6322886	-1.0139085	-0.1170675
##	[829,]	0.8720965	1.2500140	-0.9616259
##	[830,]	-0.6322886	-1.0139085	0.7274909
##	[831,]	1.6242891	-0.2592677	0.7274909
##	[832,]	0.8720965	0.4953731	1.5720492
##	[833,]	0.8720965	-1.0139085	2.4166076
##	[834,]	-0.6322886	-0.2592677	1.5720492
##	[835,]	-0.6322886	-0.2592677	0.7274909
##	[836,]	0.1199040	-1.0139085	-0.9616259
##	[837,]	-1.3844812	-1.0139085	0.7274909
##	[838,]	1.6242891	-1.0139085	0.7274909
##	[839,]	0.8720965	-0.2592677	-0.9616259
##	[840,]	0.8720965	-1.0139085	-0.1170675
##	[841,]	0.8720965	-1.0139085	-0.1170675
##	[842,]	-0.6322886	2.0046548	-0.9616259
##	[843,]	-0.6322886	-0.2592677	-0.9616259
##	[844,]	0.1199040	0.4953731	-0.1170675
##	[845,]	0.1199040	1.2500140	2.4166076
##	[846,]	0.1199040	-1.0139085	-0.9616259
##	[847,]	0.1199040	2.0046548	0.7274909
##	[848,]	-0.6322886	-1.0139085	1.5720492
##	[849,]	-1.3844812	-0.2592677	-0.9616259
##	[850,]	0.1199040	-1.0139085	2.4166076
##	[851,]	-1.3844812	-1.0139085	-0.9616259
##	[852,]	-0.6322886	2.0046548	-0.9616259
##	[853,]	0.1199040	0.4953731	-0.9616259
##	[854,]	0.1199040	-1.0139085	1.5720492
##	[855,]	-0.6322886	-1.0139085	-0.9616259
##	[856,]	0.8720965	1.2500140	-0.1170675
##	[857,]	0.8720965	0.4953731	0.7274909
##	[858,]	-0.6322886	2.0046548	-0.1170675
##	[859,]	-1.3844812	-1.0139085	-0.9616259
##	[860,]	0.1199040	1.2500140	-0.1170675
##	[861,]	-0.6322886	2.0046548	0.7274909
##	[862,]	-1.3844812	-0.2592677	-0.9616259
##	[863,]	1.6242891	1.2500140	-0.1170675

##	[864,]	-1.3844812	2.0046548	-0.1170675
##	[865,]	-0.6322886	0.4953731	0.7274909
##	[866,]	0.1199040	-0.2592677	-0.1170675
##	[867,]	-1.3844812	-1.0139085	0.7274909
##	[868,]	0.8720965	-1.0139085	-0.9616259
##	[869,]	0.1199040	-0.2592677	-0.1170675
##	[870,]	-0.6322886	-1.0139085	-0.9616259
##	[871,]	0.1199040	1.2500140	-0.9616259
##	[872,]	-0.6322886	0.4953731	0.7274909
##	[873,]	-1.3844812	1.2500140	-0.9616259
##	[874,]	-0.6322886	1.2500140	0.7274909
##	[875,]	1.6242891	0.4953731	-0.9616259
##	[876,]	-1.3844812	1.2500140	-0.9616259
##	[877,]	0.1199040	0.4953731	-0.9616259
##	[878,]	-0.6322886	-1.0139085	-0.9616259
##	[879,]	-0.6322886	1.2500140	0.7274909
##	[880,]	-0.6322886	2.0046548	-0.1170675
##	[881,]	1.6242891	1.2500140	-0.9616259
##	[882,]	-0.6322886	-1.0139085	-0.9616259
##	[883,]	-1.3844812	1.2500140	-0.9616259
##	[884,]	0.8720965	0.4953731	-0.9616259
##	[885,]	-1.3844812	1.2500140	-0.9616259
##	[886,]	-1.3844812	0.4953731	-0.9616259
##	[887,]	-1.3844812	-0.2592677	-0.9616259
##	[888,]	-1.3844812	0.4953731	-0.1170675
##	[889,]	1.6242891	-0.2592677	-0.1170675
##	[890,]	-0.6322886	-0.2592677	-0.1170675
##	[891,]	-1.3844812	1.2500140	-0.9616259
##	[892,]	-0.6322886	0.4953731	-0.9616259
##	[893,]	-0.6322886	-1.0139085	-0.1170675
##	[894,]	-0.6322886	0.4953731	1.5720492
##	[895,]	-0.6322886	-1.0139085	-0.9616259
##	[896,]	-0.6322886	0.4953731	-0.1170675
##	[897,]	0.1199040	-1.0139085	-0.1170675
##	[898,]	0.1199040	-0.2592677	0.7274909
##	[899,]	0.1199040	-1.0139085	-0.9616259
##	[900,]	-1.3844812	-1.0139085	-0.9616259
##	[901,]	0.1199040	-1.0139085	0.7274909
##	[902,]	-0.6322886	-1.0139085	-0.1170675
##	[903,]	-0.6322886	-0.2592677	-0.9616259
##	[904,]	0.1199040	-1.0139085	-0.9616259
##	[905,]	1.6242891	-1.0139085	-0.1170675
##	[906,]	-0.6322886	0.4953731	-0.1170675
##	[907,]	1.6242891	2.0046548	1.5720492
##	[908,]	0.1199040	-1.0139085	-0.9616259
##	[909,]	-0.6322886	0.4953731	-0.1170675
##	[910,]	-0.6322886	-0.2592677	0.7274909
##	[911,]	0.8720965	-1.0139085	-0.1170675
##	[912,]	0.8720965	-1.0139085	2.4166076
##	[913,]	0.1199040	0.4953731	-0.1170675

##	[914,]	-0.6322886	0.4953731	1.5720492
##	[915,]	1.6242891	-0.2592677	1.5720492
##	[916,]	0.1199040	1.2500140	-0.9616259
##	[917,]	-1.3844812	-1.0139085	-0.9616259
##	[918,]	-0.6322886	0.4953731	-0.1170675
##	[919,]	0.8720965	-1.0139085	0.7274909
##	[920,]	1.6242891	-1.0139085	-0.1170675
##	[921,]	0.1199040	-1.0139085	0.7274909
##	[922,]	-0.6322886	0.4953731	-0.1170675
##	[923,]	-0.6322886	1.2500140	0.7274909
##	[924,]	-0.6322886	0.4953731	0.7274909
##	[925,]	-1.3844812	-1.0139085	-0.9616259
##	[926,]	1.6242891	-0.2592677	0.7274909
##	[927,]	-0.6322886	-1.0139085	-0.1170675
##	[928,]	-1.3844812	0.4953731	-0.9616259
##	[929,]	0.8720965	0.4953731	0.7274909
##	[930,]	0.1199040	0.4953731	0.7274909
##	[931,]	0.1199040	0.4953731	-0.1170675
##	[932,]	-0.6322886	-0.2592677	0.7274909
##	[933,]	0.1199040	1.2500140	-0.1170675
##	[934,]	0.1199040	-1.0139085	-0.1170675
##	[935,]	0.1199040	1.2500140	-0.9616259
##	[936,]	0.1199040	-1.0139085	-0.9616259
##	[937,]	0.1199040	0.4953731	-0.1170675
##	[938,]	1.6242891	-0.2592677	2.4166076
##	[939,]	-1.3844812	2.0046548	0.7274909
##	[940,]	0.8720965	1.2500140	-0.1170675
##	[941,]	-1.3844812	2.0046548	-0.9616259
##	[942,]	0.1199040	-1.0139085	-0.9616259
##	[943,]	0.1199040	2.0046548	-0.1170675
##	[944,]	0.1199040	-0.2592677	-0.1170675
##	[945,]	0.1199040	-0.2592677	0.7274909
##	[946,]	0.8720965	-1.0139085	0.7274909
##	[947,]	-0.6322886	-0.2592677	0.7274909
##	[948,]	-1.3844812	-1.0139085	-0.9616259
##	[949,]	0.8720965	-0.2592677	-0.1170675
##	[950,]	0.1199040	-0.2592677	-0.9616259
##	[951,]	-0.6322886	0.4953731	0.7274909
##	[952,]	-1.3844812	2.0046548	-0.9616259
##	[953,]	0.8720965	1.2500140	-0.1170675
##	[954,]	1.6242891	-1.0139085	-0.9616259
##	[955,]	1.6242891	1.2500140	0.7274909
##	[956,]	0.1199040	-1.0139085	-0.9616259
##	[957,]	-1.3844812	-1.0139085	-0.1170675
##	[958,]	-0.6322886	-0.2592677	-0.9616259
##	[959,]	-0.6322886	1.2500140	-0.1170675
##	[960,]	0.1199040	-1.0139085	-0.1170675
##	[961,]	-1.3844812	-1.0139085	1.5720492
##	[962,]	0.8720965	1.2500140	0.7274909
##	[963,]	0.1199040	-1.0139085	0.7274909

```

## [964,] -0.6322886      1.2500140  1.5720492
## [965,]  0.1199040     -0.2592677  1.5720492
## [966,]  1.6242891      1.2500140  0.7274909
## [967,]  1.6242891     -1.0139085  2.4166076
## [968,]  0.1199040     -0.2592677  0.7274909
## [969,] -0.6322886      0.4953731 -0.1170675
## [970,] -0.6322886     -1.0139085 -0.9616259
## [971,] -0.6322886     -1.0139085  2.4166076
## [972,] -0.6322886      0.4953731 -0.1170675
## [973,]  0.1199040     -0.2592677 -0.1170675
## [974,] -1.3844812     -1.0139085  0.7274909
## [975,] -0.6322886     -0.2592677 -0.9616259
## [976,]  1.6242891      2.0046548  2.4166076
## [977,]  1.6242891     -0.2592677  0.7274909
## [978,] -0.6322886      1.2500140 -0.9616259
## [979,]  0.1199040     -1.0139085 -0.1170675
## [980,]  0.8720965     -0.2592677  0.7274909
## [981,]  0.8720965     -1.0139085  1.5720492
## [982,] -0.6322886     -1.0139085 -0.1170675
## [983,] -1.3844812     -1.0139085 -0.1170675
## [984,]  0.8720965     -0.2592677 -0.9616259
## [985,]  0.1199040     -1.0139085 -0.9616259
## [986,] -0.6322886     -1.0139085 -0.1170675
## [987,] -0.6322886      1.2500140  1.5720492
## [988,] -0.6322886     -1.0139085 -0.9616259
## [989,]  1.6242891      1.2500140  0.7274909
## [990,]  1.6242891      2.0046548  0.7274909
## [991,] -0.6322886     -1.0139085 -0.1170675
## [992,] -1.3844812     -0.2592677 -0.9616259
## [993,] -0.6322886      2.0046548 -0.1170675
## [994,] -1.3844812     -0.2592677 -0.9616259
## [995,] -1.3844812     -1.0139085 -0.9616259
## [996,] -0.6322886      2.0046548 -0.9616259
## [997,] -1.3844812     -1.0139085 -0.9616259
## [998,]  0.8720965     -1.0139085 -0.9616259
## [999,]  0.1199040      2.0046548 -0.1170675
## [1000,] 1.6242891      2.0046548  0.7274909
## [1001,] 0.1199040      0.4953731 -0.9616259
## [1002,] -0.6322886      0.4953731 -0.9616259
## [1003,] -1.3844812      0.4953731 -0.9616259
## [1004,]  0.8720965      1.2500140 -0.1170675
## [1005,] -0.6322886      2.0046548  0.7274909
## [1006,]  0.1199040      0.4953731 -0.1170675
## [1007,]  0.1199040      1.2500140 -0.9616259
## [1008,] -1.3844812     -1.0139085 -0.9616259
## [1009,] -0.6322886     -0.2592677 -0.9616259
## [1010,] -0.6322886      0.4953731 -0.9616259

```

```
## attr(,"scaled:center")
```

```
## Slow.songs.or.fast.songs
```

```
## 3.328713
```

```
Dance
```

```
3.116832
```

```
Folk
```

```
2.291089
```

```
##          Country          Classical.music          Musical
##          2.129703          2.954455          2.762376
##          Pop          Rock          Metal.or.Hardrock
##          3.471287          3.760396          2.359406
##          Punk          Hiphop..Rap          Reggae..Ska
##          2.455446          2.910891          2.777228
##          Swing..Jazz          Rock.n.roll          Alternative
##          2.756436          3.140594          2.824752
##          Latino          Techno..Trance          Opera
##          2.840594          2.343564          2.138614
## attr(,"scaled:scale")
## Slow.songs.or.fast.songs          Dance          Folk
##          0.8334361          1.1712673          1.1404882
##          Country          Classical.music          Musical
##          1.0814266          1.2489460          1.2596389
##          Pop          Rock          Metal.or.Hardrock
##          1.1608357          1.1829713          1.3717147
##          Punk          Hiphop..Rap          Reggae..Ska
##          1.3027740          1.3758429          1.2163717
##          Swing..Jazz          Rock.n.roll          Alternative
##          1.2569266          1.2362367          1.3474570
##          Latino          Techno..Trance          Opera
##          1.3294468          1.3251337          1.1840508
```

```
#as.matrix(scale.hobbies)%*%fact.Load.hobbies%%solve(t(fact.Load.hobbies)%*%fact.Load.hobbies)
```

```
fit.pc.music<- principal(music_transformed[-1], nfactors=4, rotate="varimax")
fit.pc.music
```

```
## Principal Components Analysis
## Call: principal(r = music_transformed[-1], nfactors = 4, rotate =
"varimax")
## Standardized loadings (pattern matrix) based upon correlation matrix
##          RC1   RC3   RC2   RC4   h2   u2   com
## Slow.songs.or.fast.songs  0.10 -0.14 -0.05  0.61 0.40 0.60 1.2
## Dance                    -0.20  0.07  0.49  0.61 0.66 0.34 2.2
## Folk                     0.05  0.68  0.04  0.07 0.47 0.53 1.0
## Country                  0.14  0.54  0.07  0.09 0.32 0.68 1.2
## Classical.music          0.20  0.75 -0.06 -0.10 0.62 0.38 1.2
## Musical                 -0.01  0.55  0.36 -0.20 0.47 0.53 2.0
## Pop                    -0.23  0.03  0.58  0.19 0.43 0.57 1.5
## Rock                     0.73  0.11 -0.05 -0.05 0.56 0.44 1.1
## Metal.or.Hardrock        0.69  0.10 -0.36  0.10 0.63 0.37 1.6
## Punk                     0.77 -0.05 -0.12  0.05 0.61 0.39 1.1
## Hiphop..Rap             -0.09 -0.25  0.55  0.39 0.52 0.48 2.3
## Reggae..Ska              0.49 -0.06  0.54  0.02 0.54 0.46 2.0
## Swing..Jazz              0.41  0.42  0.39 -0.20 0.53 0.47 3.4
## Rock.n.roll              0.63  0.30  0.24 -0.14 0.57 0.43 1.9
## Alternative              0.61  0.17 -0.06 -0.07 0.41 0.59 1.2
```

```

## Latino                -0.07  0.36  0.63 -0.04 0.53 0.47 1.6
## Techno..Trance        -0.09  0.06  0.11  0.77 0.61 0.39 1.1
## Opera                 0.06  0.77 -0.06 -0.10 0.61 0.39 1.1
##
##                      RC1  RC3  RC2  RC4
## SS loadings          2.98 2.75 2.09 1.68
## Proportion Var       0.17 0.15 0.12 0.09
## Cumulative Var       0.17 0.32 0.43 0.53
## Proportion Explained 0.31 0.29 0.22 0.18
## Cumulative Proportion 0.31 0.60 0.82 1.00
##
## Mean item complexity = 1.6
## Test of the hypothesis that 4 components are sufficient.
##
## The root mean square of the residuals (RMSR) is 0.08
## with the empirical chi square 1794.42 with prob < 8e-317
##
## Fit based upon off diagonal values = 0.88

round(fit.pc.music$values, 3)

## [1] 3.790 2.656 1.913 1.126 1.092 0.972 0.863 0.823 0.655 0.647 0.573
## [13] 0.462 0.443 0.413 0.383 0.358 0.330

fit.pc.music$loadings

##
## Loadings:
##
##                      RC1  RC3  RC2  RC4
## Slow.songs.or.fast.songs 0.101 -0.139      0.607
## Dance                  -0.195      0.486 0.613
## Folk                   0.676
## Country                0.138 0.541
## Classical.music        0.196 0.753 -0.101
## Musical                0.549 0.355 -0.204
## Pop                   -0.229      0.583 0.190
## Rock                   0.734 0.106
## Metal.or.Hardrock      0.692 -0.361
## Punk                   0.771 -0.120
## Hiphop..Rap            -0.245 0.547 0.394
## Reggae..Ska            0.486      0.545
## Swing..Jazz            0.406 0.417 0.389 -0.196
## Rock.n.roll            0.634 0.296 0.241 -0.138
## Alternative            0.614 0.174
## Latino                 0.359 0.632
## Techno..Trance         0.111 0.766
## Opera                  0.768 -0.104
##
##                      RC1  RC3  RC2  RC4
## SS loadings          2.976 2.746 2.087 1.678

```

```
## Proportion Var 0.165 0.153 0.116 0.093
## Cumulative Var 0.165 0.318 0.434 0.527
```

```
# Loadings with more digits
```

```
for (i in c(1,3,2,4)) { print(fit.pc.music$loadings[[1,i]])}
```

```
## [1] 0.1005791
## [1] -0.04771002
## [1] -0.1393627
## [1] 0.607374
```

```
# Communalities
```

```
fit.pc.music$communality
```

## Slow.songs.or.fast.songs	Dance	Folk
## 0.4007175	0.6551056	0.4657410
## Country	Classical.music	Musical
## 0.3239415	0.6190906	0.4691442
## Pop	Rock	Metal.or.Hardrock
## 0.4294610	0.5559337	0.6288478
## Punk	Hiphop..Rap	Reggae..Ska
## 0.6141975	0.5227669	0.5366799
## Swing..Jazz	Rock.n.roll	Alternative
## 0.5293669	0.5661608	0.4149442
## Latino	Techno..Trance	Opera
## 0.5349706	0.6105532	0.6083714

```
# Rotated factor scores, Notice the columns ordering: RC1, RC3, RC2 and RC4
```

```
fit.pc.music$scores
```

##		RC1	RC3	RC2	RC4
##	[1,]	-0.905280763	-1.111868042	-0.9015955175	-0.9908207894
##	[2,]	1.369502046	-1.691773134	-0.8834126853	-0.4871814014
##	[3,]	1.557296385	0.796040392	0.2946552938	-0.5215942352
##	[4,]	-0.109651498	-1.737006860	-1.3213308044	-0.5307296708
##	[5,]	-1.164891973	0.204316454	0.9882521853	0.1786337646
##	[6,]	1.475223992	0.224793455	-0.2426580274	-0.6876971278
##	[7,]	-1.340713907	0.124116404	-0.4631336242	2.5186523565
##	[8,]	-0.529767074	-0.678672092	-0.1265706849	-0.0206002358
##	[9,]	-0.191465642	-0.838408853	-1.0886738923	-0.7945326523
##	[10,]	0.740400553	0.567975814	1.0807406905	-1.5145375557
##	[11,]	-0.788635551	-0.247727919	0.0141213033	0.2332473004
##	[12,]	-0.324571727	-0.440033092	-1.7300873504	-1.4457062489
##	[13,]	0.224078787	-0.162149790	-1.2930806376	-0.9369505202
##	[14,]	-1.903196723	0.038743584	0.7657864291	-0.6183303023
##	[15,]	1.603316357	-1.667136634	0.7244966884	-1.3344984850
##	[16,]	1.456837930	-0.119273657	-0.7878618934	-0.4608140418
##	[17,]	-0.232002809	-1.494511653	-0.1042702080	0.1553548553
##	[18,]	-0.005597510	-0.127544958	0.3012742878	-0.4872684972
##	[19,]	0.703238211	1.501045815	1.3259693211	1.1351993628
##	[20,]	1.036774920	0.629596589	-0.3616685904	0.3416337292

##	[21,]	1.722349234	0.901805846	-0.2679196431	0.3764563062
##	[22,]	1.293629877	-0.646129141	-2.0502000561	0.1597527641
##	[23,]	-1.195871179	0.395957586	-0.5923258215	0.1017872471
##	[24,]	0.035391202	-0.620724332	1.1765974440	-0.7812207960
##	[25,]	0.436926206	0.391743235	-2.0215449867	0.0860316889
##	[26,]	-2.243607318	-0.473831384	0.4791641913	-0.2994383531
##	[27,]	-0.061832102	2.139159586	-0.2370659703	1.5340276588
##	[28,]	0.772633095	0.052932434	-0.8021851615	1.5111639495
##	[29,]	0.054087055	-1.717093937	0.3011187222	0.7733613653
##	[30,]	0.324510012	0.334688407	0.6079344105	0.3194801356
##	[31,]	-0.105210151	0.690743019	0.6430610680	0.4146584766
##	[32,]	-1.491190789	-0.385887236	1.2165453376	-0.7204046784
##	[33,]	0.963625760	-0.757847948	-0.4645849980	1.3191028917
##	[34,]	-0.608603302	1.524297227	-0.0829626839	-1.1421221380
##	[35,]	1.181658366	-0.660652768	0.1493653186	-0.4672336809
##	[36,]	-1.028692320	0.032504293	1.4512049929	-1.0946533607
##	[37,]	-1.802914065	0.851784212	-1.6648737819	-1.1576937721
##	[38,]	-0.042711593	-0.580292139	-2.4991626988	0.0649551664
##	[39,]	-0.529277198	0.668498969	0.5907755114	2.1039706019
##	[40,]	0.664798804	-0.152988996	-0.8364502079	0.0703192721
##	[41,]	-1.967560605	-1.435344937	-0.0349791416	0.3604660235
##	[42,]	1.508261982	1.543549689	0.5186774119	2.4695311916
##	[43,]	1.237009846	-0.359167393	0.1133368962	0.8447883457
##	[44,]	-0.342571009	-1.123648839	0.2245209529	0.3439478920
##	[45,]	-0.742509881	0.572973710	0.3032623550	0.7643604160
##	[46,]	-0.395432107	0.872755471	1.0636210358	0.7288473946
##	[47,]	0.435873977	0.403641820	1.7330473960	-0.0272615274
##	[48,]	0.019764286	-0.389223422	0.1505025916	-0.9095788369
##	[49,]	-0.497347567	-1.617569665	1.6059970273	-0.4090917944
##	[50,]	1.093053542	-1.316394972	-0.8880961526	0.1915016075
##	[51,]	0.834902066	0.715023637	1.5484421372	-1.1190593354
##	[52,]	0.341088394	0.373466508	1.1826017377	-0.4221872589
##	[53,]	0.665317011	2.708747707	2.0470421932	0.5209323936
##	[54,]	-0.754587075	2.103031651	0.6920422394	-0.1337316806
##	[55,]	0.359118593	2.790957776	0.7406557084	1.2264051372
##	[56,]	0.071338387	0.715977504	0.5570662476	1.0838792624
##	[57,]	1.103408056	0.540965624	-0.2185505922	-1.4152647567
##	[58,]	0.814228037	0.076830610	-0.6876625750	-0.8034273684
##	[59,]	-1.718647792	0.138981063	-0.2690084050	1.6790337502
##	[60,]	1.763523907	-0.453086275	-0.7375293753	0.8231255659
##	[61,]	0.125824950	0.320522396	0.2699500628	-1.8456253612
##	[62,]	-0.551707644	0.554226966	0.5303319184	0.6597035701
##	[63,]	1.449167727	2.345300545	1.1557430282	2.0191567776
##	[64,]	-0.459027419	-0.820882021	0.6864745954	1.7760767157
##	[65,]	-0.727253572	-0.805274402	-0.0264549059	-0.7563488228
##	[66,]	-0.644109738	-0.759803155	-0.7458258129	0.8426137635
##	[67,]	-0.147285377	-0.187217392	0.7198493507	1.0655636642
##	[68,]	-1.188137280	-0.124069779	2.0983590999	-0.5876775576
##	[69,]	2.082564510	-0.481066030	-0.2074384844	1.1226315622
##	[70,]	-1.429166340	-0.744237393	-0.1856253406	-1.3929207914

##	[71,]	-1.468875908	-0.554234142	0.8623456691	0.6793119591
##	[72,]	-1.117601738	-0.652094591	-0.3124837269	0.0912355956
##	[73,]	0.257741415	-0.619344683	1.2321132565	-1.1779057586
##	[74,]	-1.147525669	-0.885425942	0.7475124196	0.2751634797
##	[75,]	-1.658585782	0.618482918	-0.7477908336	-0.1583373583
##	[76,]	1.960666640	0.230084032	0.1763957536	-0.3355841541
##	[77,]	-1.085035125	-1.349848430	-0.9377481409	0.2539036547
##	[78,]	-0.882389181	-0.557192913	0.9725675779	1.2997970084
##	[79,]	0.107495171	0.216944304	2.8217463172	0.2959342948
##	[80,]	-0.183961189	1.522704178	0.9752297615	1.1008495445
##	[81,]	0.505005184	-0.450215044	1.6203522869	0.0305932473
##	[82,]	0.453290206	-0.158752217	1.5922015956	0.4909657372
##	[83,]	1.079381366	0.110085074	-3.1350665119	0.3689469789
##	[84,]	-0.545663924	0.927671900	0.9839244985	0.9518500931
##	[85,]	2.142417533	1.181182588	-0.1347646011	-1.2025751506
##	[86,]	-0.629873840	2.112030295	-1.8609537306	0.5852294233
##	[87,]	0.477673358	0.382562694	-0.0458693648	0.8990546164
##	[88,]	1.337534119	-1.016560183	1.8920565713	-0.2004630139
##	[89,]	0.141081511	0.516086697	0.6361772057	1.4073214693
##	[90,]	0.718230241	0.337031182	-0.6416137495	-0.9846168549
##	[91,]	-0.402538499	-0.693583337	-0.5085111572	-1.4641306025
##	[92,]	1.306524461	-0.434179638	-1.0772821989	0.0502709627
##	[93,]	-0.318933699	1.574355955	-0.1668074644	-2.2787497242
##	[94,]	-0.375939755	2.392325309	-1.4403194098	-0.3658176347
##	[95,]	-0.227256280	-1.524231492	-0.0250521061	2.1813755829
##	[96,]	0.082799462	-0.262167071	1.4906700505	-0.7081553915
##	[97,]	0.545798152	-1.566300224	-2.3369755298	0.6771210800
##	[98,]	-1.596652789	-1.769004060	-0.5921648814	-0.4816004179
##	[99,]	0.220728895	-1.125643643	0.0437903089	1.1099912420
##	[100,]	-0.859740557	-1.422161174	0.7941557935	-0.8090997766
##	[101,]	0.268954712	0.453842277	0.8534000162	0.3756947782
##	[102,]	1.240035910	-0.433891801	-1.5671663057	-0.7826376116
##	[103,]	1.793135468	0.987054663	-0.5732366545	-1.7112551356
##	[104,]	-0.919106235	0.428409334	2.2560548080	1.3721220984
##	[105,]	1.046670375	0.390553193	-0.5425610380	0.7299552426
##	[106,]	-0.291852121	-0.065735565	-2.3685334799	0.0446815533
##	[107,]	0.271536318	2.072902177	1.3320914707	0.3859401600
##	[108,]	0.402695974	-1.141132440	-0.8606939461	-1.6378191505
##	[109,]	-0.103456814	0.042869212	-2.2874060666	0.0378309682
##	[110,]	0.163421263	0.919182469	-1.2746296228	-0.7580738805
##	[111,]	0.187461243	0.590359133	0.6689894366	0.7683965466
##	[112,]	0.322924001	1.408143948	-0.2186629146	0.6881697591
##	[113,]	-0.429036750	0.425053143	0.3296943236	0.1345287384
##	[114,]	-0.973777988	-0.357500697	-0.8652940899	1.9706268785
##	[115,]	-0.352980214	-0.091140170	-0.5478895888	-1.2694914179
##	[116,]	-0.180502387	0.734029074	1.0072512004	0.8492797059
##	[117,]	0.202927352	-0.754076001	-0.9881152750	-1.0889745747
##	[118,]	-1.537225575	-0.803882050	-0.1743699149	-1.3000552366
##	[119,]	1.195362969	-0.777574616	-0.1131879163	-1.3817865609
##	[120,]	-1.559309620	-0.137560204	-0.4034151751	-0.1960154978

##	[121,]	1.313122991	0.545044006	-0.1296436514	0.6884459206
##	[122,]	-0.275017430	-0.352071245	-0.5277368499	0.4336057500
##	[123,]	1.148056358	0.666438017	-0.6295513486	-1.0734815824
##	[124,]	0.156891015	1.073509858	0.1046196048	-0.9102631559
##	[125,]	0.506763323	2.142160463	-0.7878947179	-0.7419259564
##	[126,]	0.885846817	0.033504615	0.0211319876	-0.5065196067
##	[127,]	-0.423327570	-1.383288356	-0.9617262167	1.0704760500
##	[128,]	0.706093087	0.920905100	0.0205529570	0.4188344078
##	[129,]	0.781104735	1.570221720	0.2173210745	2.4623157625
##	[130,]	0.459170330	-0.603058671	0.6222090366	0.0346081736
##	[131,]	0.004775090	-0.267951037	-1.1517589513	-0.8519707732
##	[132,]	-1.346021011	-1.415276286	-0.3547175741	0.8181776044
##	[133,]	0.582021350	-2.035611950	0.3362891864	-0.4530650009
##	[134,]	-1.327893852	0.908029460	-1.1087106594	-1.3690004524
##	[135,]	-0.140887387	0.534028111	1.2184666066	0.3640920719
##	[136,]	2.014664415	-0.233956292	-0.3141337740	-0.6281301094
##	[137,]	-1.860801049	0.130574992	-0.6923918703	0.2761390469
##	[138,]	0.041600291	1.174064133	1.6431145764	-0.3820646934
##	[139,]	-1.032793066	0.898634268	0.4282504113	-1.5522554992
##	[140,]	-0.280498595	0.084646362	1.2551198478	1.0506120414
##	[141,]	-0.179284783	-0.136745709	0.4897461530	-0.1007876221
##	[142,]	1.120400927	-0.889392634	-0.7721605031	0.3965633771
##	[143,]	-1.112902175	-0.734460378	-0.1549589232	0.5500122193
##	[144,]	0.021739130	-1.580681842	0.6057928853	1.1180685604
##	[145,]	0.025783905	-0.255932510	0.2287261079	-0.3436837593
##	[146,]	-0.958436220	-0.617574498	-1.3368228548	0.5890915439
##	[147,]	-0.566446140	-0.515800010	-0.6247159885	2.3293542590
##	[148,]	0.733188754	-0.866544217	-0.5643594131	0.5786483141
##	[149,]	-0.151722631	0.738327088	0.6227711149	0.8262327286
##	[150,]	-1.361134118	-0.154186345	-1.6443998091	-1.0798945773
##	[151,]	0.769518842	1.076075495	-1.1924013391	-1.3064952198
##	[152,]	1.798583126	-1.218883868	0.0029221500	-0.1298796585
##	[153,]	-0.139107112	-0.114386636	0.7878418213	0.1300231973
##	[154,]	-1.303549280	0.434428529	-0.0241397357	1.6069648447
##	[155,]	0.933367093	0.663245991	-2.0707980390	-0.5645945923
##	[156,]	0.025721369	1.115136324	-0.6906635581	0.7686717568
##	[157,]	1.187811995	-0.004027409	-0.2960735126	0.0325810110
##	[158,]	0.071546453	0.340406768	-1.5570595236	1.6105383153
##	[159,]	0.484996370	-0.895085942	1.4138332645	0.8126569695
##	[160,]	0.596165630	1.419968445	0.2565497375	0.6258239363
##	[161,]	2.403437386	-1.477920892	-0.3449733013	0.1775396384
##	[162,]	0.412302849	-0.758721301	-0.1424690823	0.1520941539
##	[163,]	-1.256536299	1.428314970	1.1195675004	-0.7653460992
##	[164,]	-1.041169981	-0.802435909	-1.9246616957	1.9260872435
##	[165,]	0.456352913	-0.190905024	-0.0236507123	0.4748973877
##	[166,]	-1.430611142	-0.123323695	1.2188544858	0.8674447958
##	[167,]	-0.574729933	0.440401509	-3.3824782487	0.3759577660
##	[168,]	0.815340818	-0.501518852	0.2909897269	0.2606184953
##	[169,]	0.198755317	-0.655328790	0.3755299048	-0.1874542572
##	[170,]	0.623841287	-0.149768151	-1.3401624533	-1.0081122487

##	[171,]	0.717858338	-0.536048498	0.5030606273	-1.3673845655
##	[172,]	-0.360323627	-0.674472385	0.3702464159	-0.4260244431
##	[173,]	1.863030255	0.672067486	-0.6201080169	-0.7264304933
##	[174,]	-1.551796504	1.032783645	-1.4053894486	0.3059473111
##	[175,]	-2.571853348	1.948015990	-2.1996461550	-1.4177259795
##	[176,]	1.091321947	-0.474006935	0.3831814168	-1.2045043941
##	[177,]	1.640244256	-0.744153862	-0.5352882493	0.1305649162
##	[178,]	1.174456366	0.853901651	-1.8545172681	-0.9008660846
##	[179,]	0.352931496	1.253674919	-2.0631457723	-0.7464385455
##	[180,]	-1.840895232	1.651777563	-2.6705295133	-0.0943327229
##	[181,]	1.441468702	-1.141554949	-1.5056283374	-0.2535701358
##	[182,]	0.535454181	0.936599504	1.0562546133	0.2886438225
##	[183,]	0.343999936	1.241238102	0.1738326898	-0.3259653303
##	[184,]	-0.356248402	-0.058370241	1.5657458779	-0.2086198998
##	[185,]	0.519525161	0.238215030	-0.9389737034	-1.0852292436
##	[186,]	-0.990265466	-0.645698012	1.6472895503	-0.9517037636
##	[187,]	-1.906329307	1.381583269	-0.7695854421	-1.2123153901
##	[188,]	-0.585513295	-0.468644353	-1.8833994389	0.5493826733
##	[189,]	-1.442437867	1.295579961	-0.6742040419	-0.6534587568
##	[190,]	0.181245136	1.161020858	-3.0835671265	-0.4968740766
##	[191,]	0.728239241	0.217139168	-1.6412060741	0.3589710115
##	[192,]	-1.081718846	1.872900198	0.3076161776	-1.4436563382
##	[193,]	-0.646657460	-0.733461887	1.0037875933	-0.1347094739
##	[194,]	1.748748780	1.198369159	-1.9933083595	-0.7522764476
##	[195,]	1.188361450	-1.127197442	-1.1320373841	-0.7520576170
##	[196,]	-0.445325410	-0.549946307	0.1092072687	-1.0039220022
##	[197,]	0.489147161	-0.338460661	0.5417853026	-0.1754403115
##	[198,]	-1.683719752	-0.474993950	-0.1034948855	-0.9211482633
##	[199,]	1.328067841	-0.595481816	0.3265483855	0.2843781126
##	[200,]	-1.291264110	-1.438887382	-0.7472884256	1.2995574848
##	[201,]	0.845708294	-0.820213734	0.7767828704	-0.1496937348
##	[202,]	1.168110667	-0.361940996	1.2651918046	-0.2118156736
##	[203,]	-1.439161886	-1.655202360	-0.0264650292	1.2181032451
##	[204,]	0.073214155	-0.075531348	-0.0711571174	0.7059639978
##	[205,]	1.881960581	-0.153233690	0.3955822508	-0.8860292422
##	[206,]	-0.656924049	2.632967611	-0.1657608726	-2.2093856826
##	[207,]	0.267794283	1.696532379	-0.8496621873	-0.2447409972
##	[208,]	-0.422368758	1.404186956	-0.0060574304	-1.2835589503
##	[209,]	1.372942484	-1.020749145	1.8241553481	-1.1895554053
##	[210,]	1.017721753	0.425830203	1.0745656576	-0.3973820265
##	[211,]	1.291171490	1.418373318	0.4840929638	2.6650126911
##	[212,]	0.211701773	-0.509994918	2.8711486261	0.5393332380
##	[213,]	0.730391162	1.321786606	-1.4760896219	-0.4650178648
##	[214,]	0.486604179	0.263263210	0.0993103765	1.9783663848
##	[215,]	1.252088036	0.010641716	-0.0423048494	-1.2511315647
##	[216,]	-2.061274523	-1.318777892	0.1144953425	-0.8707382404
##	[217,]	0.328244902	-1.562989761	-2.4661793255	0.0814414721
##	[218,]	-0.710835033	0.375747329	0.3664435112	-0.3881530004
##	[219,]	-0.952526649	-0.630787690	-0.3146924476	0.4045031328
##	[220,]	-1.735858258	-1.205227991	-0.2807211587	2.4519937624

##	[221,]	0.018480579	0.469093005	0.3185094327	-0.2831113033
##	[222,]	1.795328331	0.765040476	0.7352636394	1.1181214192
##	[223,]	0.242927949	0.446722067	-0.0519174407	-0.5384932311
##	[224,]	-0.956124382	0.022165345	0.8487014454	-0.3467721270
##	[225,]	0.946555284	0.312226508	-0.3090547459	-0.6508272918
##	[226,]	1.597024469	0.268564248	0.3062964242	-0.4501289837
##	[227,]	0.520909020	0.730948628	0.6946354228	2.2467327777
##	[228,]	0.452311562	1.423428161	-0.2080182737	-1.4769748432
##	[229,]	-0.315253142	1.661572860	-0.4275375110	-0.4541101852
##	[230,]	0.193693407	-0.414973497	0.4712228559	0.4124854943
##	[231,]	-0.691479351	1.951844278	1.1355427675	-0.9503906838
##	[232,]	0.229463281	-0.355685527	0.7058822585	-1.9470717749
##	[233,]	0.007789757	0.024561005	0.2083486004	-0.6546166120
##	[234,]	1.045166960	-0.231367689	0.6216808738	1.4253772525
##	[235,]	1.104504768	-0.366853632	0.1126749580	0.6655874779
##	[236,]	0.216606995	-0.283994574	-0.7030308290	-1.6561725232
##	[237,]	0.387823170	-0.009131572	1.0683102750	-1.1391361975
##	[238,]	-0.783261213	-0.339929390	1.5708015693	0.4161660196
##	[239,]	-1.059750902	-1.153104241	1.3988086569	-1.7961888550
##	[240,]	0.370556260	0.558826450	-0.2008706947	-0.2751519574
##	[241,]	-0.661525337	-1.508392497	-1.3260894009	-0.2092044564
##	[242,]	-0.380847732	-0.134447592	0.4750015157	-0.9167857904
##	[243,]	-1.642063965	0.307262516	0.2205962005	-1.3605195304
##	[244,]	0.705116753	0.145808727	0.7096062096	-1.8054965452
##	[245,]	0.317747326	0.456631480	1.5592286154	-0.1820651011
##	[246,]	1.796237439	-0.835266585	1.0486739794	-0.9239640323
##	[247,]	0.176387680	0.500505750	0.9760910877	-0.8429018499
##	[248,]	1.007152653	-0.160005574	1.3150870930	-1.1128077252
##	[249,]	0.093861792	-0.083940032	-0.4814907445	0.7374369310
##	[250,]	0.758888190	1.963837464	0.2349080637	-0.0423018104
##	[251,]	-0.421414006	-1.198375974	0.9590342688	-0.4330402968
##	[252,]	0.572210468	0.164564356	1.3634375862	2.0995826322
##	[253,]	-0.488201420	0.901365272	-0.2912912099	-1.1953525935
##	[254,]	-2.040968676	-1.173054070	-1.4183328532	-0.6844967882
##	[255,]	-1.120107442	0.439874479	1.5710250920	0.2434765056
##	[256,]	0.762900198	2.339063189	0.1614421771	-0.7325088879
##	[257,]	-1.803254477	-0.407728357	0.6611684038	-0.6450922913
##	[258,]	-0.381330802	0.546007539	-0.0240235762	1.6354949954
##	[259,]	1.063481861	-0.067204389	-2.2914552971	-0.5972404730
##	[260,]	-0.448304079	1.156756182	-0.2042690679	-0.7744385025
##	[261,]	0.022806638	0.681669981	-0.2428595635	0.2923759898
##	[262,]	-1.853002461	-0.388090193	-0.2718987857	-0.2028932582
##	[263,]	0.319290114	1.762596147	-0.5130975623	0.3985161209
##	[264,]	0.001891519	-0.082175130	1.4004681940	1.3162750670
##	[265,]	0.381820929	-0.096919050	0.9688020267	0.2614408406
##	[266,]	-1.266163221	-1.091975791	0.7692314294	-0.9244167532
##	[267,]	-0.952452558	0.375726657	0.5613954958	-1.1848437092
##	[268,]	0.214283795	1.108932246	-1.0178618354	0.6723080295
##	[269,]	-1.119997030	-0.535426641	1.1905052668	-1.3482740436
##	[270,]	-0.108950539	0.786859293	-1.1024074819	-0.3284376631

##	[271,]	2.465347159	-1.608657546	1.9033653359	-0.5247139954
##	[272,]	2.429940251	-1.739267706	1.2344236725	0.0057654731
##	[273,]	1.883388625	1.466708985	-0.9679159087	-0.4055264257
##	[274,]	0.891809923	0.550349684	1.4652661477	0.3175078097
##	[275,]	-0.794957276	-0.290177938	0.8276135799	0.7781253349
##	[276,]	0.141764140	1.849591480	-0.1638874389	0.4299936267
##	[277,]	0.324149814	0.380594349	-0.7318634907	1.0722418375
##	[278,]	0.103330337	-0.292925308	-0.4442818853	-0.5921569882
##	[279,]	0.640259034	0.783328654	0.5445748371	0.9391122143
##	[280,]	-0.923203089	-1.113632139	-0.1717965440	0.2862031542
##	[281,]	0.675951614	0.246782979	-0.4288464159	1.0488710273
##	[282,]	1.573774183	0.051024854	0.8088011608	0.4541751767
##	[283,]	-1.361461126	-1.175624143	-0.6863615832	-1.6241572514
##	[284,]	0.784950867	-0.316314427	1.3743783933	0.2664409475
##	[285,]	-1.977368192	-1.462023460	-1.9559085768	-1.8925625084
##	[286,]	-1.320340189	-0.067313369	-0.7070234082	-0.1960096042
##	[287,]	0.553429103	-0.724037894	1.7925105118	-0.9274850190
##	[288,]	0.234240888	-0.398058183	-0.3779437331	0.2297719963
##	[289,]	-0.632424123	0.458922822	0.2297291499	1.8091073318
##	[290,]	-0.742493651	0.367594779	-0.0267406115	0.0457095606
##	[291,]	-0.153373036	-0.969367738	1.9374454796	-1.3121292530
##	[292,]	1.201914492	0.373908864	0.0582849403	-0.0153373635
##	[293,]	-0.112262485	-0.073071152	1.7660267807	0.2012824854
##	[294,]	1.535581253	-0.052275349	-0.7256065140	-2.0215875520
##	[295,]	0.698149075	-0.533319050	0.7437469720	-1.3928144085
##	[296,]	0.981092692	0.920924579	0.3479296330	-0.6351764669
##	[297,]	-0.095913130	-1.486448322	0.0035739054	1.8417205037
##	[298,]	0.075554815	-0.292206491	-1.1049549642	-0.0556559545
##	[299,]	-0.326033668	-0.563517676	2.4197204831	-0.2179165345
##	[300,]	0.127623679	-1.014528426	1.3350013271	-0.8784516447
##	[301,]	0.359052198	1.974118183	-2.7530523371	-0.8764154056
##	[302,]	-0.509309288	0.754719639	-2.9650472628	-1.2483596577
##	[303,]	-0.361112505	-0.004745953	1.7337478894	0.2679404817
##	[304,]	0.064941555	-0.010727627	0.4270315729	0.1219744788
##	[305,]	-0.949429450	0.196189847	-0.3031387588	-1.2357725732
##	[306,]	0.832996152	-0.751646311	-0.8006099495	-0.8216728015
##	[307,]	1.680821631	0.116848880	1.7501783752	1.6063046587
##	[308,]	0.866118037	0.652242523	-0.5965139117	-1.5528995408
##	[309,]	-1.521913250	0.159507885	-0.7393011181	2.2865701266
##	[310,]	-0.867265805	-0.504227640	-0.1593801474	-0.1008006241
##	[311,]	-1.206955777	0.120342980	-1.2151899489	1.9844920388
##	[312,]	0.228041526	2.051500891	2.0698330094	0.5746672215
##	[313,]	0.313564768	-1.381940550	-0.4602665155	-0.2094588980
##	[314,]	-1.171864093	0.426215894	0.3888066143	-0.0927690920
##	[315,]	2.066415792	2.320387703	1.1591013138	2.0033451240
##	[316,]	-1.875410616	-0.543564740	-0.7602802013	-1.4085825681
##	[317,]	-1.219725580	-0.891955557	-0.4533289727	0.6032989838
##	[318,]	-0.401765362	-0.337087634	-0.2803124433	0.9192064995
##	[319,]	-0.510100844	0.392015188	0.1676843867	-0.7050182575
##	[320,]	-0.256882562	0.833394377	1.3548914167	-0.1840371741

##	[321,]	0.970342141	-0.655153350	-1.0360644455	1.2637581931
##	[322,]	0.332471624	0.194492469	1.1054628070	0.0353116857
##	[323,]	2.012748537	-0.169728482	-0.7841039542	-1.0414360373
##	[324,]	-1.229285816	1.529023392	-0.7342456207	-1.4121925730
##	[325,]	-0.121807205	-0.431599936	0.5464344456	-0.1648889452
##	[326,]	1.047538100	0.241618271	0.7911183024	1.3752338975
##	[327,]	0.030215537	-0.380365828	0.2642013991	0.3778907152
##	[328,]	-0.535878756	-0.310882989	1.7745000569	-1.1614041340
##	[329,]	1.799038581	-0.509744878	-0.8534585264	0.8952596005
##	[330,]	-0.555921920	-0.303594998	0.1026690763	0.5807887787
##	[331,]	0.551364735	-0.003085395	-0.6945044456	0.4871163116
##	[332,]	0.394682503	0.095506466	-0.1549669854	1.3469899943
##	[333,]	-1.793475169	0.156604298	0.4515421613	-1.1477200551
##	[334,]	-0.586129851	0.286128856	0.6341689822	-0.9115302629
##	[335,]	-0.561205982	0.017994230	-0.1904413953	-1.6383774608
##	[336,]	0.176464014	0.131880565	0.5056637832	1.6533568323
##	[337,]	-0.466706304	-0.474234938	-0.0816211300	0.8673653120
##	[338,]	-1.350524160	-0.038761135	-0.5000553986	1.6932013032
##	[339,]	-0.868729115	0.460981359	-1.5898994654	0.0839730937
##	[340,]	1.965843741	0.295639378	-1.2041056638	-0.9022542555
##	[341,]	-0.707733730	0.599145123	-0.6771573732	-2.1391505209
##	[342,]	-1.161367100	-1.542615091	-1.6539213273	1.2357189357
##	[343,]	-0.280973250	-0.307536660	1.1886793996	-0.4361040511
##	[344,]	-0.432541057	0.934907104	0.6227222240	-0.6037619235
##	[345,]	-1.066121959	0.058005808	-0.2397762674	-0.7096414516
##	[346,]	0.211729087	-1.242957806	-0.2005760327	0.4625504213
##	[347,]	-0.349339167	-2.062101203	0.3828668833	0.2557665531
##	[348,]	0.090390347	-0.884519486	-1.3222106026	0.7904505914
##	[349,]	-0.952291236	2.740078032	-0.0483958379	-0.4211520072
##	[350,]	-1.313955048	-0.436227669	0.5607419513	1.1076884079
##	[351,]	-0.050367590	-1.295517561	-0.8093736441	0.4923004251
##	[352,]	1.142330313	0.890702916	0.5060809146	-0.8414863695
##	[353,]	0.332172572	-0.409904344	-2.1193114036	0.3622009666
##	[354,]	-0.790002382	-0.301717206	0.0130968371	-0.6904879153
##	[355,]	-0.503969525	1.079132931	-0.6801741284	0.3534090868
##	[356,]	-1.187945963	-1.233998022	0.2057199675	0.0698141321
##	[357,]	0.402692255	0.948815822	0.7826906615	0.4023262866
##	[358,]	-0.138074950	-0.957602021	-0.5155569755	0.9183999725
##	[359,]	-0.215085419	0.181884667	0.0078363726	0.4434935171
##	[360,]	-0.974249014	0.205722948	0.9434665242	0.1671022427
##	[361,]	0.326641728	-1.352149723	2.3338563976	-0.9026343782
##	[362,]	0.102522753	1.094697132	-0.5860021747	-0.8563603939
##	[363,]	1.149900906	0.933607523	-0.1148403001	-0.5703166249
##	[364,]	1.012599379	1.007517489	-0.3067253765	-1.2152937662
##	[365,]	0.982854664	-0.487718564	-0.4501011037	0.9803876597
##	[366,]	2.305060087	0.431690168	-1.0967072321	-0.4886803003
##	[367,]	-0.760813631	-1.262173912	-0.4963883908	-0.4620600120
##	[368,]	1.698351389	-0.220054092	-0.4746531022	0.1715130878
##	[369,]	-0.945391641	0.273614729	1.6010411549	0.2060727388
##	[370,]	-0.521058434	-0.505639844	-1.5223472850	2.1409547380

##	[371,]	0.360139237	0.147623159	0.7209637839	-0.0144114660
##	[372,]	0.259284025	3.277583104	0.7647717531	0.3411582677
##	[373,]	1.043497768	-0.592764345	-1.0400644107	0.6261614538
##	[374,]	-1.553994066	-1.599450699	-0.9621246486	-0.4306987553
##	[375,]	-1.210146533	-0.914428387	0.6673028970	0.5402028633
##	[376,]	-0.937305429	-1.122316987	0.7679105308	0.4768715924
##	[377,]	-1.836190106	-1.682865363	-0.4134204783	0.5349367293
##	[378,]	1.331256372	0.226438014	-0.4880093723	-0.9037540261
##	[379,]	-0.506672853	-0.741744103	1.3513480588	1.3691883122
##	[380,]	-0.536963215	1.837368925	0.8672736128	0.0907957799
##	[381,]	-0.685429732	0.059991969	0.8506802600	1.3484620510
##	[382,]	0.222179951	1.062847280	-1.8685753405	-0.3186406672
##	[383,]	-1.859252668	0.248534350	0.6591737134	1.0279805671
##	[384,]	1.075542061	-0.008654118	-0.5551134250	-0.4637369592
##	[385,]	1.920056678	-1.426059733	0.5001334269	-0.2978944047
##	[386,]	1.244672055	1.680346407	1.8436707181	0.5612254643
##	[387,]	0.751551404	-1.178394442	0.6313873165	0.6180132115
##	[388,]	-0.777496843	-0.672530583	2.7935036365	-0.3517001434
##	[389,]	0.396955591	0.879190467	2.1837210399	-0.4356929686
##	[390,]	-1.084391844	0.261464800	0.4786335961	-0.9098022512
##	[391,]	-0.566084421	0.013685889	-0.8265837817	-0.8632073216
##	[392,]	-0.556891257	0.290263990	-0.1711536315	-0.1823427563
##	[393,]	-1.088003265	-0.548297684	0.9277658109	0.4993963072
##	[394,]	0.094143942	-1.211794906	-2.6149809755	-0.0241699390
##	[395,]	-0.494521225	-1.202390092	-0.6957983367	-0.9793964351
##	[396,]	1.191114897	-0.819283856	-1.1983996736	1.8352109416
##	[397,]	-1.195156970	1.979880907	-0.3598904749	-0.5791208868
##	[398,]	-2.025631703	0.125686430	0.3483286930	-0.4630153439
##	[399,]	0.810876924	-0.345880228	0.6390210561	1.4102222648
##	[400,]	0.597945755	1.423987051	-0.4238273109	-0.4592174046
##	[401,]	-1.239108660	-0.233839430	-0.4319334237	0.8176531965
##	[402,]	-0.467437135	-0.391917919	-1.5155551821	-0.8724331824
##	[403,]	-1.028903296	1.531615631	-2.1878522653	1.4910238767
##	[404,]	0.075836026	0.528260947	0.0980684472	-1.1541432541
##	[405,]	0.821111042	1.942272950	-0.9844215709	2.0690110015
##	[406,]	-0.806941672	0.728445618	0.2197037316	-0.3529826400
##	[407,]	-1.005752664	1.892613762	1.3859970732	0.1564317377
##	[408,]	-0.168978574	0.104698819	0.5267256961	-0.3390736885
##	[409,]	-1.312593655	2.841049754	-0.3057134215	-0.3223240036
##	[410,]	0.077517432	-0.093909240	0.8244067667	1.3494998591
##	[411,]	0.802428139	-1.183529269	-0.5785622051	0.9971496891
##	[412,]	-0.756733855	0.166300584	1.5421332719	-0.8663522878
##	[413,]	-0.342979533	-1.037817111	-2.4762384889	2.2495874033
##	[414,]	0.424096828	-0.303942044	-0.6365996255	0.6892285785
##	[415,]	-0.498189702	0.815316137	0.1775602886	-0.0066508621
##	[416,]	0.136105073	-1.661998519	0.7187214797	-0.0497314743
##	[417,]	-1.062995436	-0.419045382	0.1353942370	0.4581004922
##	[418,]	1.406557933	-1.208816894	-1.5842570641	-0.1571696334
##	[419,]	-2.211305078	0.437912853	0.3571112476	-1.5184908359
##	[420,]	0.077311577	2.319558438	1.0583706557	0.3467772859

```
## [421,] 0.546423332 -0.954975505 -2.0155674415 -0.4758374593
## [422,] -0.959769806 1.414137278 0.6455885557 -1.7098787062
## [423,] -2.106876270 -0.216448708 0.6171439951 1.7204776712
## [424,] 0.067614063 0.035941857 0.2037073121 -1.0651777025
## [425,] -0.990996747 -0.169656896 0.4657421047 2.4812644645
## [426,] 1.675108542 -0.996299079 0.2492157222 -0.3677147583
## [427,] 0.930557226 -1.542007479 -0.5187843486 -2.1728082528
## [428,] -0.021214648 0.918613282 -0.4205571665 -0.6277994544
## [429,] -0.887730727 0.974810842 0.0181474649 0.8424735524
## [430,] 1.097652416 -0.555095923 -1.9851396941 -0.0453845180
## [431,] 0.190871846 0.558471414 0.0948544485 0.9975364774
## [432,] -1.272674328 0.599243564 0.0854607311 0.7170497731
## [433,] 1.482517873 -0.812791025 -0.6721581420 -0.7725024913
## [434,] 0.336417147 0.778299730 -0.0571917038 0.4249532946
## [435,] -1.069681846 -0.629590547 1.5072638763 0.7088208293
## [436,] 0.976046035 -1.561149885 -1.4441210272 -0.9741917699
## [437,] -0.258124758 -0.527210325 -0.0270118957 -0.2822053784
## [438,] -1.020505130 -1.324638547 -0.9660891042 0.1136857518
## [439,] 0.433296551 -1.423396546 -0.3369401419 -0.8767410253
## [440,] -0.852002100 -0.840038550 -0.0115745364 2.0948596638
## [441,] -0.249355239 -0.156367459 0.8008371605 0.2063199353
## [442,] -1.416187032 -0.795552879 0.2075938357 -1.8646465474
## [443,] 0.492407027 -0.256347385 1.2635648229 -0.1695515859
## [444,] -0.624705162 0.427367705 -0.0185942655 -0.4863989782
## [445,] 1.794491033 -0.093361132 -0.2308656666 1.0031393305
## [446,] -1.212521851 -0.513812475 1.4864524762 -0.7593378919
## [447,] -1.240544917 -1.062296936 -0.6159229308 0.9795516938
## [448,] -2.287416971 0.627581492 -2.0850856804 -1.6851436071
## [449,] -0.678264930 -0.272779599 -0.0093785730 0.4116679346
## [450,] 0.023455605 -0.211385421 1.2055186156 -1.5602631014
## [451,] -1.899864792 1.072599217 -0.5428304339 0.1524975404
## [452,] -0.833495304 -0.442597217 0.0089737104 0.0140507917
## [453,] 0.361203501 -1.679557687 0.1958882759 0.4652712188
## [454,] 0.199118026 -0.754687140 1.1133329221 -1.4952643018
## [455,] 1.788163239 -1.641149919 0.9733014586 -0.9150076831
## [456,] 0.511299996 -0.716833159 0.3392953954 0.8019937535
## [457,] 0.301491865 -2.428828300 0.2491546874 0.4850499301
## [458,] 0.291851503 -0.878558151 -0.6086514084 1.3083531572
## [459,] -1.496202136 3.429260195 0.3475746545 2.3951075182
## [460,] 0.343891624 0.370292805 -0.6098661802 -0.9093875391
## [461,] 0.693490941 -2.467734420 -0.1134189798 0.1791144812
## [462,] -0.908640209 1.401980061 -0.2900129384 -0.8748785130
## [463,] 0.817860822 -1.070650034 -0.0757138533 0.0344935925
## [464,] -0.901560797 -0.904554010 0.9788549340 -1.0914867575
## [465,] 0.129086953 0.352801436 0.2168028226 0.7601774244
## [466,] -0.878030031 0.182566551 1.0591838611 -1.1278985804
## [467,] -1.233831886 0.010260100 0.2034334798 0.6458399404
## [468,] -1.388468692 -0.245443746 -0.3824950028 -0.0944710856
## [469,] 0.700196671 0.043126327 1.0000220389 -0.1508972141
## [470,] 0.731088522 -1.747939561 0.6079760472 1.8368806764
```


##	[471,]	-1.464344601	-0.070514650	0.8328744286	-0.6748698258
##	[472,]	2.099636245	-1.108713749	0.2664374323	0.0502868068
##	[473,]	-1.409182388	0.210240637	-1.5052749447	-0.6225520696
##	[474,]	0.034023168	-1.613541617	-2.2185426845	-1.3471140214
##	[475,]	-1.219791414	-1.001728265	-0.0903367611	1.7830574374
##	[476,]	1.356973914	0.734567737	0.7306564398	-0.6445498154
##	[477,]	1.542799574	-0.326352237	1.1316173755	-1.5242711483
##	[478,]	1.171828384	-0.898553459	-0.4795486742	-1.5816698689
##	[479,]	0.003762559	0.146141548	-0.2238002071	1.1146798237
##	[480,]	0.510769624	-0.143014164	0.5620623019	-0.5315088261
##	[481,]	0.456867193	1.709904211	1.4099942414	1.5184123902
##	[482,]	-0.315919099	1.861209862	-2.5902074816	1.9001653475
##	[483,]	0.356760760	-1.823936550	-0.1806559490	-0.1397695066
##	[484,]	0.655891037	-0.151716979	0.5129633624	-0.3624575189
##	[485,]	0.209997907	-0.845163601	0.1430497468	-0.3210380777
##	[486,]	0.312372180	-0.811015192	1.0791882593	-1.2744047390
##	[487,]	-0.956306435	-0.651513193	0.3903906506	-0.1945075716
##	[488,]	0.155030144	-1.813413028	-0.3039210205	1.1903371482
##	[489,]	0.780416453	1.733376010	0.1474345770	-1.0456655983
##	[490,]	2.058138998	-1.888461528	-0.1026203071	-0.0059502483
##	[491,]	-1.878489923	-0.033872775	0.1757412319	0.4654403423
##	[492,]	-0.426807226	-0.501212820	0.4883722290	-0.7340235240
##	[493,]	0.541384391	0.633776038	-0.8422293310	0.1926975029
##	[494,]	-0.806950669	-1.129150403	1.1425079539	-0.0411334155
##	[495,]	1.047278833	-0.482400205	0.2787658914	-1.8982704604
##	[496,]	1.094049036	-1.158678896	-0.6312210266	-0.5967994043
##	[497,]	-1.077171286	1.747082978	-0.1169203996	-1.0281778864
##	[498,]	0.268437607	1.670262217	0.6652303721	-0.6978797268
##	[499,]	-0.116166223	-0.625558774	-0.3524478249	-1.2069242917
##	[500,]	0.233978202	0.131236810	-1.3744583284	0.7124344525
##	[501,]	-0.332337108	1.897958969	-1.2701342261	0.5471500158
##	[502,]	-0.367348852	1.371947263	0.3900429838	-0.0012999142
##	[503,]	1.299940281	0.495674646	-0.7286577754	1.0744086225
##	[504,]	-1.784659306	1.581842195	-0.9422515592	0.1084167281
##	[505,]	-1.668399051	-1.351056545	0.7490855848	-0.0551361384
##	[506,]	1.161415599	-0.570930111	-0.4131442727	0.2363864829
##	[507,]	-0.631909836	-1.792719106	-1.5086060587	0.5565342467
##	[508,]	-0.143549454	0.720983784	0.8726647006	-0.8668113057
##	[509,]	1.191043797	0.262623067	-1.0368022160	-0.9089218090
##	[510,]	-1.581226972	0.752865326	0.2894168158	1.7458639287
##	[511,]	0.102244291	1.202736258	0.8948315516	0.3334208047
##	[512,]	-0.166762807	-1.034398497	0.8914540172	-1.1105496389
##	[513,]	-2.006228990	0.360315416	-1.4721127334	-0.8852310851
##	[514,]	0.972120750	-1.119634114	-0.8018465035	0.9046541590
##	[515,]	-0.284676381	0.882220244	-1.1560710310	-0.8798244155
##	[516,]	0.785755298	0.653118148	-0.8363504375	0.3844178465
##	[517,]	0.428414986	-0.084200293	0.1461929791	2.5339273382
##	[518,]	-0.360162331	0.302993658	-0.0738624568	0.5941297536
##	[519,]	-0.677497597	0.479585184	0.8863061440	1.1245187675
##	[520,]	-0.630015161	-0.803120531	-0.5341927170	1.3566581263

##	[521,]	-0.984353573	-1.177420778	1.1535659421	-0.6235657023
##	[522,]	-0.616015239	1.681948218	1.2821015994	0.3453464213
##	[523,]	-0.595322637	0.420065467	0.6975986876	0.3820850922
##	[524,]	-0.438830739	-0.787420758	-0.2378283982	0.1653452913
##	[525,]	2.012520468	-0.537527022	-0.8854927475	-0.6082731589
##	[526,]	0.216432890	0.417536254	0.0503582909	-0.2080644409
##	[527,]	1.532280834	-1.853941412	1.2738187707	-0.1787922668
##	[528,]	1.246240994	-0.832817074	1.0682448500	0.0770080931
##	[529,]	-0.189455869	-0.126176789	0.2007314850	0.4690641480
##	[530,]	0.075545082	-0.457853925	-1.2441412460	-1.6081137437
##	[531,]	-1.811483976	0.680341385	-0.7308652031	-0.4891748453
##	[532,]	1.279755671	1.249038024	-1.6831911159	0.1117282514
##	[533,]	-0.028805750	0.057142187	1.1449848202	-0.0653003386
##	[534,]	0.939261753	-0.527665185	-0.0866877566	-0.2521484266
##	[535,]	-0.615949255	-0.140173845	1.4504775260	-0.8335523748
##	[536,]	0.604953488	0.638610441	1.4653963925	-0.4451419129
##	[537,]	-1.156156620	-1.454908796	-0.0417760743	1.6109709565
##	[538,]	0.111208140	-0.094468172	-0.6431327985	-0.2391888511
##	[539,]	0.355311421	-0.413992306	-0.3380831433	0.5231258854
##	[540,]	-0.195354617	0.854045719	-2.1220833563	-0.0434709042
##	[541,]	-0.064176087	1.777622212	0.8871367971	-0.0224463577
##	[542,]	-0.696509124	-0.822089753	0.2359236943	-0.2158733070
##	[543,]	1.527455831	-1.118230172	1.7846837902	0.2478864551
##	[544,]	0.906429761	0.004560496	0.2945365454	0.9819326475
##	[545,]	0.878986174	0.729744155	-1.0266916357	-0.5321910707
##	[546,]	0.280490873	-0.244480221	-0.7496892961	0.5995104146
##	[547,]	1.196879738	1.339786333	1.5043724111	-1.4603404086
##	[548,]	0.242766802	1.633968594	-2.7705404809	-0.0011762765
##	[549,]	0.174369447	-0.316280221	-1.6623834380	-1.0206621944
##	[550,]	-1.125786706	-0.448485188	1.3548280830	1.2697552319
##	[551,]	0.539783207	1.036326143	-0.5205505408	-0.8730894285
##	[552,]	-2.019687099	0.222363524	-1.3331902316	0.0420003653
##	[553,]	0.334245553	0.224796770	0.5135650253	-1.4960303768
##	[554,]	-1.792410147	0.337441383	-1.1208620923	0.7945848588
##	[555,]	-0.935971314	0.556321219	-0.4866108770	0.1663763859
##	[556,]	-0.887786939	-1.123408539	1.6454037671	0.9697723762
##	[557,]	-1.954232535	-0.819113357	-0.4407410615	-0.3057674392
##	[558,]	0.334604268	-0.044240101	0.7405362051	-1.3103849303
##	[559,]	-1.503260795	-0.061053263	0.6670342547	-1.6231479250
##	[560,]	-0.693593432	-1.335515711	-0.0654077916	0.2358661236
##	[561,]	0.851076361	0.695859663	0.4750673524	1.3110840919
##	[562,]	-0.011446843	0.767964657	1.0359334917	0.8317934073
##	[563,]	-0.386287029	-0.620391604	-0.5970599317	1.6444719491
##	[564,]	0.519979264	-1.157443038	-0.1262096442	1.1101164653
##	[565,]	0.492407731	-1.937532048	-0.9730195999	1.3972281264
##	[566,]	-1.388470440	0.215142746	-0.2349724396	0.5215399833
##	[567,]	-1.379345466	-0.738528504	0.0712857221	-0.4191224340
##	[568,]	-0.066584279	-1.301707051	0.1027482959	0.4975526635
##	[569,]	-1.437738420	-0.736238641	-0.2682706457	1.2922101093
##	[570,]	-0.658803443	0.046263613	-0.4973873374	0.2435708271

##	[571,]	-0.905482138	-1.273496177	-0.8300497758	-0.7815913138
##	[572,]	-0.990447501	-0.881519684	-0.2278311674	2.0446719383
##	[573,]	-1.077815156	-0.330597994	-1.1904754313	-0.6423319691
##	[574,]	0.268747917	-1.424034662	-1.5455540208	0.8161832457
##	[575,]	-1.336654177	-0.425367528	-0.6875114721	2.3847849381
##	[576,]	0.060126196	1.260435667	-0.3478853779	0.0855007500
##	[577,]	-0.499058742	0.094048340	0.8665711438	0.0672104259
##	[578,]	-1.808780153	-0.198885368	-0.8833176807	0.0179316236
##	[579,]	-0.901749022	-0.129074741	1.4518228517	-1.0194790579
##	[580,]	1.011013202	0.620097054	0.0991043708	1.3132633665
##	[581,]	-1.028460754	-1.829336111	-0.6311417433	-0.5204615668
##	[582,]	1.260396613	-1.246159550	0.3743809932	0.9023856447
##	[583,]	-0.218781167	0.090809557	0.5799250429	0.3843577151
##	[584,]	-0.166526463	-0.985723597	1.6840316693	-1.1678155224
##	[585,]	-1.122610861	0.360308239	0.7378359809	0.4944450356
##	[586,]	-0.046174316	0.698164103	-0.0375960277	0.4551618518
##	[587,]	0.039940040	1.113272305	-1.5042135206	2.7854962336
##	[588,]	1.151675807	-2.150062274	-0.8785186892	-0.1853994797
##	[589,]	-2.125105531	-0.308908429	0.4308709132	-0.9631508852
##	[590,]	1.544149441	-0.513891321	-1.8778930860	-0.3745557761
##	[591,]	1.237002766	0.241747156	0.5865221524	-1.1566120733
##	[592,]	-1.656326618	0.110604913	1.4614606401	-1.3008806959
##	[593,]	-1.742224566	0.019066627	0.6331807029	0.2117721424
##	[594,]	0.647131613	0.060440879	-0.0406146143	-1.2655133852
##	[595,]	0.129364651	0.281757267	-1.3239442665	-0.7320669075
##	[596,]	0.946607992	-1.819349381	-1.6762152202	-0.2470578546
##	[597,]	-0.715634083	-1.338196304	0.5300331584	0.9720167799
##	[598,]	0.343656182	-0.487568738	0.4109084043	1.0357469426
##	[599,]	0.289048411	-0.413216282	0.6737150595	0.5116116865
##	[600,]	0.809970309	-0.291427179	0.6384833815	1.6913811827
##	[601,]	0.923486585	-0.888432297	0.0835877299	0.5195846061
##	[602,]	0.098789214	1.201114543	-0.6374307885	-1.6301917642
##	[603,]	0.286361398	-0.109988035	0.0819061178	1.0297346715
##	[604,]	0.050353009	0.092156518	0.9517226896	0.7412931225
##	[605,]	0.774160216	-1.528070842	0.7869280868	-0.6178443891
##	[606,]	0.595619397	0.755966487	-1.1004835903	-0.7171591378
##	[607,]	-0.833135551	-0.618579275	-0.2332957183	-0.8138106879
##	[608,]	-0.067847745	-0.070216861	0.3635268251	-1.0559483741
##	[609,]	-0.036296922	0.998683325	0.8976615823	-0.4355888999
##	[610,]	-0.580624380	0.586675025	-0.5758199112	0.8508363490
##	[611,]	1.006376564	0.063790784	-0.4575753543	0.5464074847
##	[612,]	-1.353273016	-1.333330478	-0.3302270693	0.2150441564
##	[613,]	0.288791964	-0.243305511	0.7679768252	1.2633389376
##	[614,]	0.068871000	-0.699855226	0.5911830921	-0.3237138952
##	[615,]	-0.329463357	-0.572908197	0.6398120169	0.2056466397
##	[616,]	0.524261003	0.844895888	0.1291315486	-0.3347265506
##	[617,]	0.620586049	0.264821405	0.1484855933	0.6336939126
##	[618,]	-1.736703563	2.160684200	-0.4612498607	-0.9824789823
##	[619,]	-0.365359410	1.745903960	1.9990294725	0.5208983532
##	[620,]	-1.050336388	1.497402138	-0.1797017516	-1.4010817030

##	[621,]	-0.368483162	-0.658898721	-0.5695889982	-0.4009192614
##	[622,]	-0.539202831	-0.291893973	-1.8525093123	0.3026717032
##	[623,]	0.591786201	1.881225319	1.1718797741	0.9981473683
##	[624,]	-0.106462295	-1.237319927	-0.4672125988	0.0008847847
##	[625,]	-0.387762523	-1.449647064	0.7901591313	-1.2251049772
##	[626,]	-0.774459287	0.134513272	0.9862557763	0.6986855338
##	[627,]	-0.429031178	-0.743639610	0.6631626705	0.6129441368
##	[628,]	-1.018524513	0.493690067	-0.4643426625	0.5171347688
##	[629,]	1.806140743	-1.615041710	0.2216426442	0.3998824674
##	[630,]	-0.945495984	-0.162199809	1.2328186541	0.6822074801
##	[631,]	0.728613015	-0.559984375	1.9087591924	1.6531930742
##	[632,]	-0.342911771	0.935255265	0.4496855633	0.2007575257
##	[633,]	-0.268781456	-0.135200654	-0.2507561005	1.7947895827
##	[634,]	-1.067030481	-0.126846086	0.0201377433	-0.0639323796
##	[635,]	-0.237531056	1.014837323	0.5828340685	-0.3335331437
##	[636,]	-0.630846555	0.564566032	1.5349917875	-1.5747089282
##	[637,]	0.920365030	1.231616564	1.5834812918	0.3048468099
##	[638,]	-0.317197243	0.494743215	-1.1023833860	-0.5585432166
##	[639,]	1.126022588	-0.106526618	1.2894877347	-0.6832033709
##	[640,]	1.908619971	-1.236376830	-1.2185016014	-1.0982723958
##	[641,]	0.268409023	-0.638452149	-0.3992185385	1.3860426589
##	[642,]	-0.184200334	0.403496907	0.8143253554	0.2707892805
##	[643,]	-1.406197473	2.241584338	-1.1672006471	0.6136198204
##	[644,]	-0.918199404	0.532110862	0.8158598645	-0.4332388534
##	[645,]	-0.303842774	-0.629926318	0.5646240220	0.5150666360
##	[646,]	-1.133931184	0.831901552	0.1445011282	1.2154269951
##	[647,]	-1.042662991	-0.161039715	0.3834500126	-0.7324435022
##	[648,]	-0.438607603	0.231248631	1.9730881324	-1.2511923740
##	[649,]	-1.329896482	1.019613600	0.9934517170	0.4008254106
##	[650,]	0.601877850	-0.580162823	0.9982528732	0.1725025096
##	[651,]	-1.551197629	-1.399430697	0.1692300063	0.2793074491
##	[652,]	-0.226979387	0.243258093	0.2509906415	1.1866306212
##	[653,]	-1.407641240	-0.688155758	-0.7958501985	-0.6939063899
##	[654,]	0.821497770	0.528144327	-0.2098505407	-0.8694843339
##	[655,]	-1.225399444	0.316782536	0.2293728492	0.4959317148
##	[656,]	1.007734381	-0.973336467	-0.1752663666	0.6751465478
##	[657,]	0.496430841	0.623568407	-1.5663459505	-0.8088896709
##	[658,]	-1.037255289	-1.545889670	0.6346618018	-0.5043011189
##	[659,]	-0.885540648	-0.239582471	-0.1722259742	1.2074819897
##	[660,]	0.861558227	-0.578069102	-0.6802016944	-1.3957276179
##	[661,]	1.344156127	-1.152619874	0.4828916353	-0.9585641947
##	[662,]	-2.030995629	-0.862339098	-1.2250370403	-0.0017961646
##	[663,]	-0.619057970	-0.919980374	0.1459798139	0.0535924439
##	[664,]	0.972482163	0.111017812	0.1888395580	0.0055565035
##	[665,]	-1.163174829	1.664823434	-0.1804157467	-1.6214122396
##	[666,]	2.461031667	-0.530122353	-0.1597828668	0.3513118064
##	[667,]	0.523417810	-0.924515902	-1.7141583636	-0.8953376283
##	[668,]	-0.416153135	-0.579114488	0.0984300327	-1.2218650072
##	[669,]	1.109864438	0.456041061	-0.7026407744	-1.2611582440
##	[670,]	0.424490107	0.323858002	0.4966641831	0.8010984882

##	[671,]	-0.693948639	-0.072523041	0.3298914733	-0.6837715049
##	[672,]	-0.158187903	0.514353849	1.0856967020	0.0769930381
##	[673,]	-1.181985307	2.216389911	-0.7686925238	-2.0039834084
##	[674,]	-0.414556058	0.478643415	0.8608449797	-1.5482676491
##	[675,]	-0.058267861	-0.717660835	-0.8775366727	0.4033923554
##	[676,]	-1.086712453	0.877964351	0.1577477171	-0.0897796988
##	[677,]	-0.917187284	-0.362746452	-1.8979345846	-0.1095521237
##	[678,]	-0.434048689	-0.757591292	0.7081386304	-0.9427916062
##	[679,]	1.581874025	0.939794822	-0.4665564977	-0.8503505300
##	[680,]	2.195935124	-1.376949948	0.2984559011	-0.5998449890
##	[681,]	0.783102481	-0.009794981	2.0766156765	1.5826638183
##	[682,]	1.640716117	0.974449324	0.3425838356	1.9125277690
##	[683,]	0.944368039	0.103382402	0.1638513918	1.7350059812
##	[684,]	0.585360008	0.874179259	0.8063776971	-0.4963242706
##	[685,]	-0.478739252	-1.093880306	1.1538702866	0.4813932596
##	[686,]	-0.166007669	0.250112058	1.1695119994	-0.2188908387
##	[687,]	0.190477645	1.407650587	-0.2192371001	1.3482090404
##	[688,]	1.492981517	-1.091630388	0.5145471226	-0.5151345872
##	[689,]	-0.376913603	-0.318080566	0.0130767463	0.1430725050
##	[690,]	-0.706749322	-0.818478631	0.2959889644	0.0961941930
##	[691,]	0.522935707	-0.428134222	0.0694757813	0.5073853693
##	[692,]	0.844778363	-0.116695338	0.6692215902	-0.1585744788
##	[693,]	1.535019683	0.085319175	-0.0188152323	-0.0592801615
##	[694,]	-0.430909274	-0.320965097	0.7259916433	0.3076897469
##	[695,]	0.586275206	1.566129944	0.2957032749	0.5310497176
##	[696,]	0.160590689	0.740120236	1.5395513637	0.4863182602
##	[697,]	-1.537354008	0.720601507	0.5217247953	-0.0482341273
##	[698,]	0.157653874	-0.760036588	-0.5830437813	-0.3884947343
##	[699,]	-0.681298501	0.010116099	1.9895215156	0.9869531976
##	[700,]	-1.134821904	-0.527414914	1.2872551559	-0.3721748670
##	[701,]	-0.878013705	-0.918523762	-0.5129904118	-0.4028907762
##	[702,]	-1.260147542	1.970954041	-1.1525751102	2.4591608202
##	[703,]	-0.033593964	1.442295906	-1.7410880650	-1.0811827705
##	[704,]	1.099395215	-0.226645795	0.2511683983	-0.3261573062
##	[705,]	0.328857114	-1.024847374	2.4489224934	-0.7085453305
##	[706,]	1.770866803	-0.264621387	0.8617888172	0.8229380472
##	[707,]	-0.809992057	0.174622934	0.3862832749	0.5492132726
##	[708,]	0.219571764	0.479898844	-1.2551318055	-0.4366708324
##	[709,]	-0.604826671	-1.457496421	0.3592347942	0.6722177244
##	[710,]	1.531267646	-0.507307507	0.4128438307	-0.1407909731
##	[711,]	-0.080284759	-0.805573672	1.2252189540	0.1754571204
##	[712,]	0.110439694	-0.314162103	0.6828724041	-0.6456743901
##	[713,]	-1.499167340	0.426594122	-0.1434688742	-1.5606229598
##	[714,]	1.548386923	0.415685974	1.5881451549	-0.4530633316
##	[715,]	-0.042385287	-0.659445366	1.1094961999	0.5925799237
##	[716,]	1.035559502	0.571763316	-0.7416396015	-0.8305677789
##	[717,]	-0.335927618	1.510670213	-0.2234152372	0.1931547596
##	[718,]	-0.498580691	-0.443680735	-0.9687894372	-1.6516643146
##	[719,]	1.235226085	0.593723271	-0.1764328931	0.2970776315
##	[720,]	-0.406141132	-0.642143779	-0.3538907573	0.3514621778

##	[721,]	0.359224156	0.800443213	0.7102617251	-0.2283140189
##	[722,]	-0.888209644	1.306606095	-0.6154729705	-0.8496993094
##	[723,]	0.649802909	0.689158103	1.5252988666	-0.6157360594
##	[724,]	-0.996739474	0.515013058	0.3303707907	-0.7735478605
##	[725,]	-0.615719768	0.842849237	1.6321682183	-0.1352923587
##	[726,]	-0.979935443	0.015295999	-0.0303294585	0.8658369863
##	[727,]	-0.896188229	-0.954732469	1.0680576314	0.3574957706
##	[728,]	0.064703727	-0.801777351	0.4038364585	0.0069003436
##	[729,]	-1.089479923	-0.322684053	1.0594393017	0.9369784805
##	[730,]	1.285071985	0.538862929	0.4927434166	-0.1772856734
##	[731,]	1.722487701	-0.710857051	-1.4449090933	-0.4561631619
##	[732,]	0.383711744	-0.322644502	0.9238172006	-0.5703331954
##	[733,]	-0.093734683	-0.544936399	0.2233822800	-0.4056963913
##	[734,]	-0.249215597	2.632494240	0.3454951049	-0.8670681837
##	[735,]	-1.483892600	2.975302798	-0.6216332958	-0.7083064777
##	[736,]	-2.190867886	0.673108735	-2.2301908788	-2.0699153456
##	[737,]	0.429674246	2.003752835	0.5839785014	0.0820819636
##	[738,]	-0.324163399	0.484981340	0.2990196014	-1.7786047357
##	[739,]	0.239929592	-1.226005617	-1.1410672145	2.3286073837
##	[740,]	0.672915432	1.798178887	-1.2334788564	1.4574658072
##	[741,]	-0.372631320	-0.685479577	0.8792702800	0.3235515656
##	[742,]	-0.730753732	2.210598760	-0.1930073768	-1.2047637558
##	[743,]	-0.067095620	1.210058434	-0.2269906217	0.2872340624
##	[744,]	1.117965113	-1.044286353	-0.5880701377	-0.7107959901
##	[745,]	1.765978934	0.936374843	-0.9518494966	-0.4981980787
##	[746,]	-0.442430740	0.715950833	-0.2990807017	0.7941827806
##	[747,]	0.469812120	-0.122582864	0.1809911156	-0.8101494350
##	[748,]	0.263129277	1.321208135	0.6479765933	0.5042144307
##	[749,]	0.783163711	1.163118363	-0.4803964605	0.4986279412
##	[750,]	1.061543033	-0.062080022	-1.8444131742	-0.5168890370
##	[751,]	-0.681149244	2.066002616	0.8180115187	-0.1654541444
##	[752,]	0.092811149	1.901535924	-0.3866035040	-0.6774365157
##	[753,]	-0.748782463	0.175254373	1.3730618645	1.0219997185
##	[754,]	0.453350388	0.187357943	-0.1451704484	-1.0713868255
##	[755,]	-0.037100719	-0.464251207	0.2976408492	0.3809711794
##	[756,]	1.634446990	-0.323975274	0.0580913950	-1.1120899091
##	[757,]	1.984729844	0.401472660	-0.0068138400	1.3661452203
##	[758,]	-0.282786208	1.518655358	1.7485291683	0.8611145710
##	[759,]	-1.558500485	-0.879405027	-1.3885144808	2.1839729577
##	[760,]	0.378818043	2.324117315	0.9692591223	0.2357965446
##	[761,]	1.092576570	-0.461724010	0.0052391044	0.9519366712
##	[762,]	-0.666512054	-2.214700947	0.4718692763	0.3316647309
##	[763,]	0.531955561	-2.074865937	0.4349180999	0.3488334714
##	[764,]	0.748443462	0.153520490	-1.5274082987	0.1769402226
##	[765,]	-1.031175490	0.163553294	0.8923616034	-1.7901672710
##	[766,]	1.745520581	-0.467477473	-0.5477501494	-0.4209541373
##	[767,]	1.263507144	2.307205346	0.4091926507	2.6793491333
##	[768,]	-0.053672106	1.108149181	-0.9261610139	-1.1931674420
##	[769,]	-0.062680436	-1.010589723	0.6791665685	0.1586130456
##	[770,]	0.022806638	0.681669981	-0.2428595635	0.2923759898

##	[771,]	-2.063682305	-1.472543807	-1.8227492750	-2.3846052796
##	[772,]	0.647334559	1.196364213	-1.4084755232	-0.4596049202
##	[773,]	-1.307805194	-0.015224974	0.1867828851	-0.3657364678
##	[774,]	1.531239404	-0.403390799	0.5806223888	0.5213962029
##	[775,]	-1.222614653	0.389823656	-0.5531685594	-1.5681423330
##	[776,]	-0.400436826	0.439660641	-0.1830301531	0.3065144139
##	[777,]	-0.747566737	1.450454453	0.5387470567	1.1398943492
##	[778,]	-0.428092606	-0.551711386	0.8382020489	0.9023369058
##	[779,]	-1.568176571	-1.524898215	0.0044956969	-1.1722859282
##	[780,]	-0.211258159	1.390199177	-0.0622202510	0.1660505901
##	[781,]	-0.379957382	-0.444542413	0.8531826881	-0.0713986918
##	[782,]	-1.176132484	0.345250136	-0.1467098988	-1.1442936275
##	[783,]	2.351136784	0.994949725	0.5223101557	-0.5957681253
##	[784,]	-0.204771545	1.701377002	-0.4097706426	0.2517535079
##	[785,]	-1.024915151	0.941975577	0.7259024877	0.1626212032
##	[786,]	-0.374498693	0.548553014	0.4229314368	0.1011422551
##	[787,]	0.683397799	0.651899921	0.3649517107	-0.3417722898
##	[788,]	-0.769756760	-0.824817231	1.0772948421	-0.4241552143
##	[789,]	0.093438629	-0.845566347	0.5997318439	-1.0019897957
##	[790,]	-1.218059933	1.619565020	-0.8910711717	2.3519366398
##	[791,]	1.596490639	-0.148057987	-2.4559326042	2.2057828300
##	[792,]	-0.370364202	-0.658967982	0.6853963863	-0.4436400135
##	[793,]	-0.260734836	-0.670324817	-0.3160060757	0.8902481805
##	[794,]	0.020933818	-0.193422980	0.6358612746	0.3865989496
##	[795,]	-1.637304830	-1.781445150	-0.4046847595	0.6384329173
##	[796,]	0.447009393	0.561553565	1.0054695518	-1.6449715646
##	[797,]	0.132981154	0.239720594	0.5508915353	0.8585550097
##	[798,]	-1.478201460	-0.470412183	0.2371324840	-0.4276370199
##	[799,]	0.275998698	-0.290420277	-0.2896167862	-0.1297728765
##	[800,]	0.645507893	1.324350365	-2.0435555637	-0.5844054285
##	[801,]	-0.736420588	-1.212782416	0.0193923085	-0.4138791121
##	[802,]	0.427288101	-1.102799421	-1.2043918099	2.0237208981
##	[803,]	0.435025897	-0.334788721	-0.0889215870	2.8306147900
##	[804,]	0.811772018	-0.737319040	-1.6846183998	0.0498868295
##	[805,]	0.836441693	-0.578407292	1.5664212118	-1.2812599736
##	[806,]	1.700650193	0.267996739	0.5561134157	0.9790694731
##	[807,]	-2.063682305	-1.472543807	-1.8227492750	-2.3846052796
##	[808,]	-1.531424482	1.720865816	-1.9217264083	-1.0755112801
##	[809,]	0.271242451	-0.906513042	-0.6134309096	1.0326338171
##	[810,]	-1.232694205	-1.333697132	-0.9070020270	-0.1895119140
##	[811,]	1.254914033	2.176643464	-1.3616896095	-0.8726706078
##	[812,]	1.027768954	0.823858178	-1.0961120794	-0.3114198991
##	[813,]	-1.608590998	-1.524573653	-1.9096914942	-0.8720064015
##	[814,]	-0.956619226	-1.467775574	-1.7167293218	-0.3790802162
##	[815,]	-0.489143876	0.986468274	0.2418047595	1.7729782399
##	[816,]	1.676976811	0.030901502	0.0403156570	0.9698390607
##	[817,]	2.337999558	0.046936175	0.8856885266	0.5945823723
##	[818,]	0.772467783	-1.820886156	1.1716251623	-1.0577383027
##	[819,]	0.123101572	-0.090948389	-1.9406847421	1.6784395644
##	[820,]	-1.220110911	-1.013590007	-0.0599716703	0.6452698217

##	[821,]	0.767425304	0.613868235	0.8513459156	-1.4170662431
##	[822,]	1.866025391	0.926834098	-0.5785665139	-0.9439676629
##	[823,]	0.281049722	-1.285449515	1.8212370278	-0.6152535184
##	[824,]	-1.371459921	-0.611283772	-0.0193193429	-0.1352223152
##	[825,]	0.559611086	0.557379664	-1.3059142341	-1.2120821422
##	[826,]	0.295393141	0.074540103	-1.9181204262	-0.9753243688
##	[827,]	0.813150643	0.838848002	0.9635277858	-1.1241192782
##	[828,]	1.161121764	0.862982808	0.3980150448	-0.7454552120
##	[829,]	0.542262080	-1.309164327	0.4661850731	1.1155308506
##	[830,]	1.330299748	0.609882243	-0.8121879298	-1.0174175823
##	[831,]	-0.465993225	-0.233669201	1.8261146953	-0.4889988315
##	[832,]	0.909175789	1.018003215	1.5942368932	0.4646539902
##	[833,]	0.988893673	2.547012294	-0.1111898383	-0.7525237160
##	[834,]	-0.373231930	0.680659994	-0.7634096536	-1.3171688695
##	[835,]	-0.094823121	0.953529189	-0.9487178261	0.2309198315
##	[836,]	-0.312408222	-0.667314815	0.9933727100	-1.3635132705
##	[837,]	1.781508063	-0.976667207	0.1903562106	-0.8615500399
##	[838,]	1.797912628	0.965011707	0.4504847712	-0.5843873011
##	[839,]	0.479165890	-1.677509595	2.0432154685	0.2531607476
##	[840,]	-0.224078684	-0.422675351	1.3664668800	-1.1080154589
##	[841,]	-0.565808880	-0.215250076	1.1613529591	-0.6951225462
##	[842,]	0.402686272	-0.406892910	-0.6791651383	3.0482260981
##	[843,]	0.627763112	-0.650319631	-0.3848494566	0.6999828900
##	[844,]	-0.547868108	-0.039059232	0.4328856554	1.1408325650
##	[845,]	0.166658266	2.949920064	-0.7095588210	0.6006703250
##	[846,]	-1.832515873	-1.375719944	0.6886710282	-0.5015130181
##	[847,]	-1.422043258	0.667996406	0.5178443164	1.1674983538
##	[848,]	0.575347793	1.610350853	0.6616128968	-1.6253727591
##	[849,]	1.316349817	-1.424222147	-0.7611382531	-1.0609716840
##	[850,]	-1.751285000	2.364364079	-1.2001746075	-1.7782558643
##	[851,]	-0.912592658	-0.818505143	1.1154079166	-0.8576052111
##	[852,]	-0.613653937	-1.207825483	-0.3098472923	1.7357285043
##	[853,]	-0.867464477	-1.252683452	-0.0756839174	0.2745108558
##	[854,]	-1.365649312	1.137988154	-0.1376301668	-0.5606748742
##	[855,]	-0.868119298	-1.455292415	0.9265097743	-1.0536497339
##	[856,]	0.453176942	0.042971676	0.9498807828	2.0908733199
##	[857,]	0.429988164	0.215503910	0.8589784568	-0.4070278738
##	[858,]	-0.361386974	0.701870547	0.1469839404	1.1752262458
##	[859,]	0.444036516	0.294222518	0.3221276831	-2.2165635460
##	[860,]	-0.532911365	0.438742717	0.6744063762	0.9636700254
##	[861,]	0.080317415	0.741042276	-0.6799975388	1.7797659674
##	[862,]	0.310453306	-0.847408124	-0.6071551769	-0.5917016689
##	[863,]	-0.195487357	0.088799151	0.9853389576	1.1435221020
##	[864,]	-0.760676142	0.746557443	-0.9980215168	1.4633417940
##	[865,]	1.226770322	0.322300116	-0.1339850748	0.3914991360
##	[866,]	-0.379074967	0.174206121	-0.0645083987	-0.2099786475
##	[867,]	1.336417797	0.475857443	-0.8345096381	-0.5114954681
##	[868,]	-0.909195084	-0.075432451	0.4081590941	-0.6842708714
##	[869,]	-0.473128840	0.380173569	0.1547200786	0.6677198683
##	[870,]	0.887331628	0.042100172	-0.3960066667	-1.1772696957

##	[871,]	-1.005483459	-0.730223886	-0.7539320331	1.6886659477
##	[872,]	1.028571501	0.390078670	-0.3114846317	-0.1780446852
##	[873,]	0.364511223	-0.125251799	-1.1838928323	0.2559421907
##	[874,]	-0.245739346	0.394962344	-0.2497530650	1.0796347538
##	[875,]	-1.173862623	-1.089504672	0.6892125437	0.1722200819
##	[876,]	-1.543665165	-1.139445112	-0.7739799188	0.4604906652
##	[877,]	-0.570714570	-1.116474173	1.6991741201	-0.3445701789
##	[878,]	1.804159500	-0.074742397	-0.8032247048	-0.7822956760
##	[879,]	0.211891703	0.446222205	1.1000369296	-0.6141347240
##	[880,]	0.850189252	0.167901012	-1.9082071836	3.0383867087
##	[881,]	-1.084946227	-0.958605680	0.7603678594	0.8190575520
##	[882,]	0.550421803	0.512163660	-0.2860747555	-1.8530523004
##	[883,]	0.724754664	-1.338889595	-1.2274602662	1.5641150149
##	[884,]	-0.532140538	-0.775013558	1.0517963580	-0.8680337172
##	[885,]	1.637957901	-0.727080972	0.1310864869	0.8456317314
##	[886,]	0.074565819	-0.936001955	0.2145826126	0.8962853678
##	[887,]	0.842209619	-0.690067063	-2.3819870531	1.3288052818
##	[888,]	0.219627567	0.123279953	-0.7473186977	0.5594426184
##	[889,]	-0.364684560	-0.302879495	-0.0124277080	-0.4960241582
##	[890,]	0.548770363	1.105763156	-0.4556942538	-0.1444782690
##	[891,]	-1.105908239	-0.594322901	0.0685767298	1.0334866243
##	[892,]	-0.236859508	-0.701773494	0.2235490704	0.3184707715
##	[893,]	-0.225714407	-0.200401652	-0.5026480052	-0.4518913682
##	[894,]	-0.119692164	0.831988373	-1.0402649299	0.4684024704
##	[895,]	0.761029320	-1.286436060	0.2877001858	-0.7070870374
##	[896,]	-0.959977676	-0.242429260	0.0731999395	0.8733062181
##	[897,]	0.745951376	0.843572061	-0.6468442466	-1.0993296261
##	[898,]	-0.628526592	-0.204024621	-0.0310728808	-0.5981701100
##	[899,]	1.365901206	-0.658248887	0.0972033640	-1.7002554995
##	[900,]	-0.251662332	-1.590008856	-0.1560075402	-0.6649495871
##	[901,]	-0.979297566	-0.062726794	0.6991375834	-2.2659470859
##	[902,]	-0.657443328	-0.443411629	-0.7354946683	-1.5911819963
##	[903,]	0.319228801	-1.164347918	-0.0058728083	-0.6526684141
##	[904,]	1.975892440	-0.177792588	-1.0400003191	0.3622829016
##	[905,]	-1.377983470	-0.198773915	1.0467459085	-1.7849173376
##	[906,]	-0.130061785	-0.247443909	0.6301170011	0.6776686404
##	[907,]	-1.068304943	2.000359391	0.4240436098	0.5396165977
##	[908,]	-0.600411076	-0.552429994	0.5551062646	0.1780943294
##	[909,]	-0.185116881	-0.267963453	-0.6641838418	-0.0335830747
##	[910,]	0.221258481	0.232522114	0.7960674747	-0.0288197899
##	[911,]	0.879729060	-0.629272538	1.9214929162	-1.5411689723
##	[912,]	0.929158000	1.271334037	-1.0179876175	-1.0989254570
##	[913,]	0.233805348	-1.103105246	0.2441257550	0.8590904105
##	[914,]	-0.032328787	1.549504380	-0.6588955894	0.1721546326
##	[915,]	1.543791641	1.077304045	-0.1251121733	-0.2862337511
##	[916,]	-0.277935642	-0.340582449	0.2792585467	1.6818388179
##	[917,]	1.636874228	-1.040699627	-0.8917035872	-0.9039725121
##	[918,]	1.210250617	-0.191000502	-1.5569612341	0.6260985862
##	[919,]	1.331293283	-0.606240135	0.5132191400	-0.9238160787
##	[920,]	0.690929885	-0.612708085	0.4609427015	-1.6099059390

##	[921,]	0.266004160	0.846800166	0.0840053747	-0.4284939741
##	[922,]	-0.296805200	-0.823287018	-0.0355806801	0.6763114968
##	[923,]	-1.459573030	-0.349421292	0.4024231770	0.9964924982
##	[924,]	1.058303582	0.400633032	-0.6905786743	0.3372500615
##	[925,]	-1.618886551	-1.623873536	-0.9106965137	-0.7437141001
##	[926,]	-0.783505423	0.552268086	1.6739848187	-0.7047190485
##	[927,]	0.295912483	-0.413448777	-1.3621726319	-0.5382486792
##	[928,]	-0.459731165	-1.882835986	0.6755055620	0.7255781690
##	[929,]	-0.168064051	0.584094800	0.8593022941	0.2726396358
##	[930,]	0.372268051	0.639549686	-0.0114877033	-0.0901249372
##	[931,]	-1.020975546	-0.804667853	0.0609044191	0.3087700824
##	[932,]	-0.196951554	-0.324022100	-0.2438362451	0.1259093312
##	[933,]	-1.120627138	-0.485507790	0.7814611476	0.7075253034
##	[934,]	0.955332220	0.663976538	0.5042668403	-1.6586607783
##	[935,]	0.508415420	-0.381521158	-0.9683758753	0.8090590458
##	[936,]	-1.982244937	-1.287956178	-0.1269146607	-0.9069826224
##	[937,]	0.460646283	-0.044858672	-0.4101692271	0.0686482607
##	[938,]	2.022404800	0.581197280	1.9643743197	-0.4374024026
##	[939,]	0.817097991	1.051287152	-1.2180859322	1.2847370006
##	[940,]	-0.359859343	1.071257104	0.0811060765	0.3299635889
##	[941,]	-0.401453224	-0.828386900	0.4985900877	-0.0545027586
##	[942,]	1.228270259	-1.416722151	1.4696858218	-0.9478630323
##	[943,]	-0.685864494	0.761535716	0.3005700879	0.5326597733
##	[944,]	0.550936625	-0.301454767	0.6794250890	-0.5204211871
##	[945,]	-1.084065864	1.007708929	-0.2773265729	0.0230265166
##	[946,]	0.777620703	-0.041082642	1.2452273771	-0.1858644323
##	[947,]	1.759646578	0.294083633	-1.3557075852	0.5560213994
##	[948,]	-0.381035097	-1.686005060	-0.4901998682	-0.3624711620
##	[949,]	-1.105718210	0.462015611	0.6577219763	-0.4691677465
##	[950,]	0.304722488	-0.780394723	-0.0264061332	-0.3148738066
##	[951,]	1.500792554	0.309290684	-0.3004017189	0.5948847100
##	[952,]	0.801317576	-1.724226942	1.0101277091	0.8445503201
##	[953,]	0.440348480	0.896562579	-0.0857152560	-0.0488482878
##	[954,]	0.672074881	-0.781504872	2.1942435553	-1.1782572871
##	[955,]	-0.587110854	0.333637322	1.3023111031	0.6849832326
##	[956,]	1.108657417	-1.629810278	-1.1781596306	-0.6260733908
##	[957,]	0.417322931	-0.047432271	0.1807113649	-0.2356736022
##	[958,]	-1.539542056	-1.474678807	-0.6409113657	-0.1046649277
##	[959,]	-1.482124719	0.353585109	-0.3863770272	1.9285892499
##	[960,]	1.008229595	0.155510556	1.2172553128	-1.1877544463
##	[961,]	1.547908404	0.747564660	-1.0951545286	0.4012014602
##	[962,]	-0.937710785	0.598594906	1.5116857153	0.5476002090
##	[963,]	-2.255044839	2.062682187	-1.1545851896	-1.1549280358
##	[964,]	-1.460967322	1.576685720	-0.8737450117	1.6535048679
##	[965,]	1.968236012	0.369845753	-0.2910120500	0.5891900385
##	[966,]	0.435479648	1.236576792	0.6715281409	1.6298557157
##	[967,]	-1.045506592	1.314216039	-0.6794585204	-1.3290403562
##	[968,]	1.648817721	-0.080172494	-0.6765039622	-0.5634413751
##	[969,]	-0.513619949	-0.195597213	0.4255919303	0.5855135292
##	[970,]	0.872561974	-0.835125149	-0.4399010070	-0.9097231930

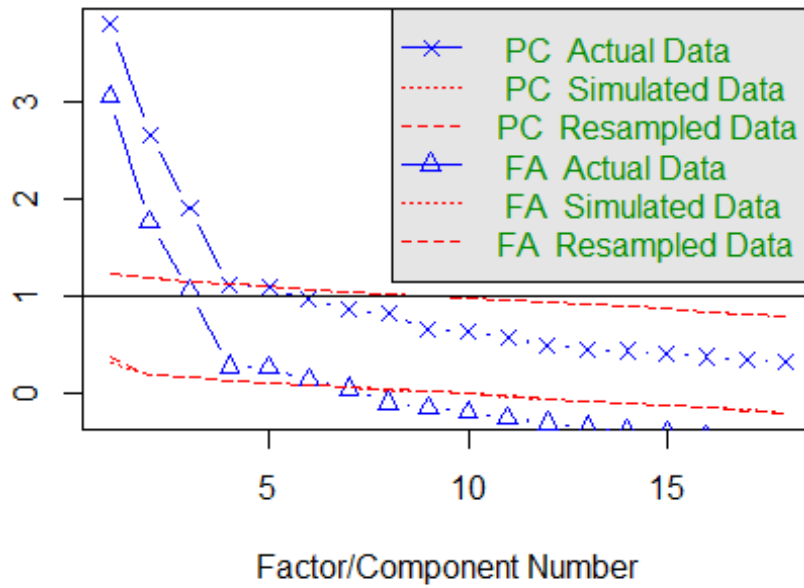
```
## [971,] -0.174662394 1.774604478 0.4358219255 -0.3773248261
## [972,] 1.374333565 0.656827312 -1.2943153263 0.6513430154
## [973,] 1.125667482 0.515969415 0.0168558670 -0.5934905331
## [974,] 1.327236845 1.796027575 -1.2034764852 -0.4098523188
## [975,] 2.224332645 -1.142967294 -0.6528687164 -0.8066897194
## [976,] 1.936667355 2.814843076 1.6033487518 1.9852717169
## [977,] 0.152798676 0.641715742 1.9449517565 -0.6481132512
## [978,] -0.179258955 -1.038659969 -0.5943231288 1.8132252164
## [979,] 1.460825924 -0.893386637 0.3775074151 -1.5926706526
## [980,] -0.687796517 0.781893232 1.1721455797 -0.6065229456
## [981,] 0.206295298 0.857779475 -0.1952289710 -1.1444646975
## [982,] -0.121361075 1.170952834 -0.7256160250 -1.2067931942
## [983,] 1.067049837 -0.942955260 -0.6472125222 -0.7571187094
## [984,] -0.458237694 -1.026779969 1.4473341487 -0.3475151597
## [985,] 0.267272206 -0.154306991 -0.9869291320 -1.5608914909
## [986,] 0.847003806 -0.084735718 -0.5754938752 -1.5632141997
## [987,] 0.665544106 1.772234484 -1.0387311040 0.6485645671
## [988,] 0.757445574 -0.692134762 -1.1817036297 -0.9433573658
## [989,] 1.660115232 0.502410623 1.0930331121 -0.5326301963
## [990,] 0.194366324 1.060239806 0.4349669705 1.9316186470
## [991,] -0.471904255 -0.674100709 -1.4745548399 -0.5511964618
## [992,] 1.400665403 -1.979657236 -1.5419523934 1.1092515073
## [993,] -0.058599538 0.265452886 -1.4790182012 2.2801773965
## [994,] -0.936151698 -0.953628745 -0.8770917290 0.1269958602
## [995,] 1.448829730 -0.617904541 0.0476808321 -0.4297081207
## [996,] 0.058057804 -1.306558400 -1.8388488234 1.3839977419
## [997,] 0.377337156 -1.449674388 -0.6347815500 -1.2776410243
## [998,] -0.018049372 -0.734433156 0.0004649137 -0.0565303935
## [999,] 1.144093805 0.062944558 -1.0085431404 2.1693187904
## [1000,] 0.969286783 1.693704946 1.7378201928 2.1811791485
## [1001,] -0.725191444 -0.231922936 0.7802227899 0.0891184835
## [1002,] 0.076519813 -1.170388602 0.5401728918 1.5610107592
## [1003,] 1.404760894 -1.219915063 -1.6240088387 1.4619401355
## [1004,] 0.522365060 0.071066965 1.0395488037 0.2883541862
## [1005,] 0.299049556 -0.340554391 -0.0757500211 1.5688317754
## [1006,] 0.047901732 0.945312936 0.6505529350 -0.0113210131
## [1007,] -1.070054041 0.101053892 -0.7781708144 1.5410841972
## [1008,] 0.111285341 -1.404693606 -0.4571929801 -1.3161494102
## [1009,] -0.373128906 -0.407489126 -0.6435240642 -0.3971397440
## [1010,] -1.419859802 0.157139604 -0.7124316352 1.4981924465
```

```
# Play with FA utilities
```

```
fa.parallel(music_transformed[-1]) # See factor recommendation
```

eigenvalues of principal components and factor analysis

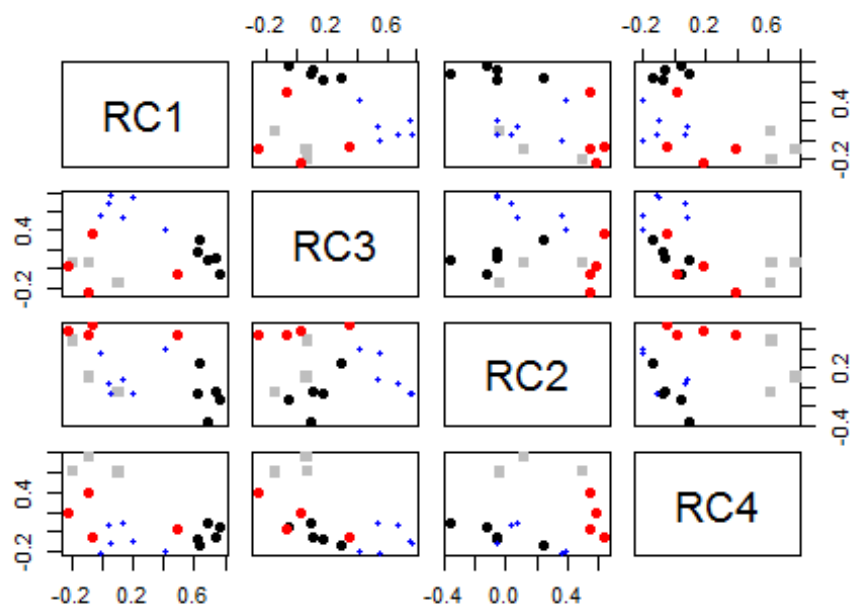
Parallel Analysis Scree Plots



Parallel analysis suggests that the number of factors = 6 and the number of components = 3

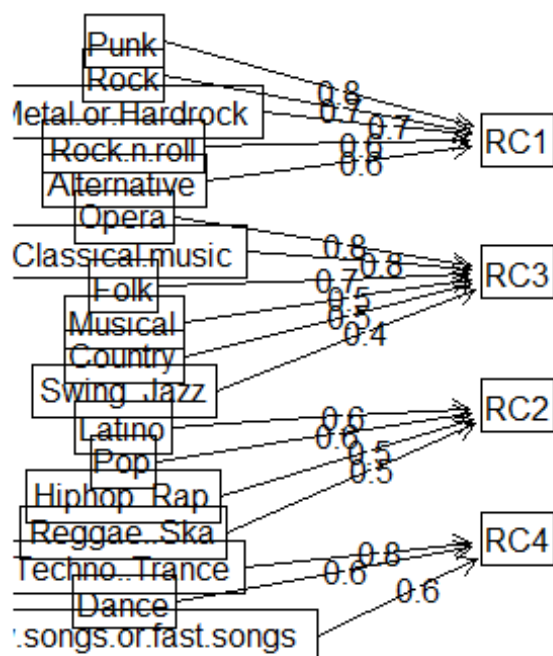
`fa.plot(fit.pc.music)` # See Correlations within Factors

Principal Component Analysis

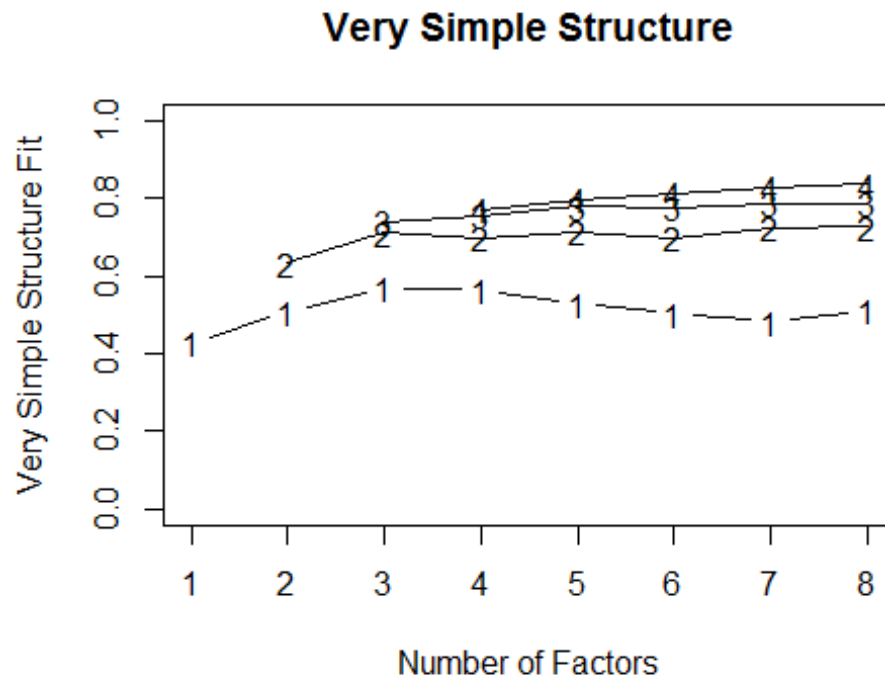


```
fa.diagram(fit.pc.music) # Visualize the relationship
```

Components Analysis



```
vss(music_transformed[-1]) # See Factor recommendations for a simple structure
```



```
##
## Very Simple Structure
## Call: vss(x = music_transformed[-1])
## VSS complexity 1 achieves a maximum of 0.57 with 3 factors
## VSS complexity 2 achieves a maximum of 0.73 with 8 factors
##
## The Velicer MAP achieves a minimum of 0.02 with 3 factors
## BIC achieves a minimum of -191.98 with 7 factors
## Sample Size adjusted BIC achieves a minimum of -50.73 with 8 factors
##
## Statistics by number of factors
##   vss1 vss2  map dof chisq      prob sqresid  fit RMSEA  BIC  SABIC complex
## 1 0.43 0.00 0.033 135 2965 0.0e+00    18.5 0.43 0.144 2031 2460 1.0
## 2 0.51 0.63 0.026 118 1787 7.1e-296    11.8 0.63 0.118 970 1345 1.3
## 3 0.57 0.71 0.022 102 978 3.8e-143     8.4 0.74 0.092 273 597 1.4
## 4 0.56 0.70 0.026 87 729 4.0e-102     7.4 0.77 0.085 127 404 1.6
## 5 0.53 0.71 0.030 73 458 4.0e-57      6.3 0.81 0.072 -47 185 1.7
## 6 0.50 0.70 0.036 60 337 4.1e-40      5.5 0.83 0.068 -79 112 1.9
## 7 0.48 0.73 0.042 48 140 6.1e-11      4.7 0.85 0.044 -192 -40 1.9
## 8 0.51 0.73 0.055 37 88 5.3e-06      4.3 0.87 0.037 -168 -51 1.9
##   eChisq SRMR eCRMS  eBIC
## 1 5850 0.138 0.146 4916.2
## 2 2352 0.087 0.099 1535.5
## 3 842 0.052 0.064 136.6
```

## 4	594	0.044	0.058	-7.6
## 5	329	0.033	0.047	-175.5
## 6	209	0.026	0.042	-205.6
## 7	73	0.015	0.027	-258.8
## 8	44	0.012	0.024	-211.6

@Conclusion : The proportion of the total variance for RC4 is about 61% which restores maximum of the total variance. Also the components for RC4 contribute to Techno Trance, Dance, Slow songs or fast songs.

MultiLinear Regression

music_transformed

##	Music	Slow.songs.or.fast.songs	Dance	Folk	Country	Classical.music
## 1	5		3	2	1	2
1						
## 2	4		4	2	1	1
2						
## 3	5		5	2	2	3
5						
## 4	5		3	2	1	1
1						
## 5	5		3	4	3	2
3						
## 6	5		3	2	3	2
3						
## 7	5		5	5	3	1
2						
## 8	5		3	3	2	1
2						
## 9	5		3	3	1	1
4						
## 10	5		3	2	5	2
5						
## 11	5		3	3	2	1
3						
## 12	5		3	1	1	1
1						
## 13	5		3	1	2	1
3						
## 14	5		3	5	3	2
5						
## 15	5		3	2	1	1
3						
## 16	1		3	2	2	3
3						
## 17	5		3	3	1	1
2						

## 18	5	3	3	3	3	2
2						
## 19	5	3	5	4	3	4
5						
## 20	5	4	3	3	2	4
2						
## 21	5	3	3	2	3	4
3						
## 22	5	5	1	1	3	2
2						
## 23	5	3	3	2	3	3
3						
## 24	5	3	4	2	2	2
4						
## 25	5	2	3	1	1	4
3						
## 26	5	3	4	2	1	2
3						
## 27	5	5	5	5	4	5
3						
## 28	4	5	3	4	1	3
2						
## 29	5	3	5	1	1	1
1						
## 30	5	4	3	4	2	3
3						
## 31	4	3	4	3	3	3
3						
## 32	4	3	4	1	3	2
3						
## 33	5	5	3	1	3	2
3						
## 34	5	4	2	2	3	4
5						
## 35	5	4	3	2	1	3
4						
## 36	5	3	3	3	1	4
5						
## 37	5	3	1	3	2	3
4						
## 38	5	5	1	1	1	5
1						
## 39	5	5	5	3	1	5
2						
## 40	5	3	3	3	2	2
3						
## 41	4	3	4	1	1	1
1						
## 42	5	4	5	5	5	5
1						

## 43	5	5	2	2	2	3
4						
## 44	5	4	3	1	1	2
2						
## 45	4	4	4	2	1	3
3						
## 46	5	4	5	2	2	4
3						
## 47	5	3	4	3	4	1
5						
## 48	5	3	3	1	1	2
3						
## 49	5	4	3	1	1	1
4						
## 50	5	4	2	1	2	2
2						
## 51	4	3	2	4	2	5
5						
## 52	5	3	3	3	1	4
3						
## 53	5	3	5	5	5	5
5						
## 54	5	3	4	4	3	4
5						
## 55	5	3	5	5	3	5
5						
## 56	5	3	4	2	2	4
3						
## 57	5	3	1	2	3	4
3						
## 58	5	3	3	3	2	3
2						
## 59	5	5	5	3	2	3
2						
## 60	5	4	2	1	2	3
1						
## 61	5	2	2	2	2	4
4						
## 62	5	3	5	1	2	4
3						
## 63	5	3	5	4	5	4
4						
## 64	5	4	5	1	3	2
1						
## 65	5	3	3	1	1	1
4						
## 66	4	3	3	1	2	2
1						
## 67	4	3	4	2	2	2
4						

## 68	3	4	4	3	2	2
4						
## 69	5	5	3	2	1	2
4						
## 70	5	4	1	1	1	1
4						
## 71	5	3	5	2	2	2
3						
## 72	4	3	2	3	1	4
1						
## 73	5	3	2	2	2	2
5						
## 74	5	3	3	2	2	2
1						
## 75	5	3	2	1	4	5
3						
## 76	5	3	3	4	4	3
1						
## 77	4	4	4	1	1	2
2						
## 78	5	3	5	1	2	2
2						
## 79	4	4	4	2	4	1
5						
## 80	5	3	4	4	4	3
4						
## 81	5	3	4	2	2	2
3						
## 82	5	4	4	1	2	3
3						
## 83	5	5	1	3	1	3
2						
## 84	5	3	5	1	2	4
4						
## 85	5	3	1	1	4	5
5						
## 86	5	2	3	3	5	5
3						
## 87	4	3	4	3	3	3
2						
## 88	5	4	4	1	2	2
4						
## 89	5	5	5	1	1	5
2						
## 90	5	3	3	2	1	4
3						
## 91	4	2	3	2	1	3
4						
## 92	5	5	1	5	1	2
5						

## 93	5	2	1	3	4	4
4						
## 94	5	4	1	5	5	4
4						
## 95	5	5	5	1	1	1
2						
## 96	5	3	3	2	2	4
3						
## 97	5	3	1	1	1	1
1						
## 98	5	3	2	1	1	1
1						
## 99	3	5	5	1	1	1
1						
## 100	5	3	4	1	1	2
2						
## 101	5	4	4	3	2	4
5						
## 102	5	3	1	3	2	3
1						
## 103	5	3	1	2	3	5
4						
## 104	5	5	5	2	2	2
4						
## 105	4	4	3	3	2	4
2						
## 106	5	5	1	3	1	3
2						
## 107	5	3	4	4	5	5
3						
## 108	5	3	1	1	1	2
2						
## 109	4	3	2	2	1	4
1						
## 110	5	2	2	2	4	4
2						
## 111	5	4	4	5	2	3
1						
## 112	5	3	4	3	2	5
3						
## 113	5	3	4	2	2	4
3						
## 114	3	4	4	2	3	1
2						
## 115	5	3	2	1	1	3
4						
## 116	5	4	5	2	2	5
4						
## 117	5	3	2	2	2	2
1						

## 118	5	3	2	2	1	1
3						
## 119	5	3	1	2	2	4
1						
## 120	4	2	4	2	1	3
2						
## 121	5	5	4	1	2	4
4						
## 122	4	3	2	3	4	2
1						
## 123	5	3	3	2	2	5
3						
## 124	5	3	3	3	3	3
4						
## 125	4	4	1	4	5	5
5						
## 126	5	3	3	3	2	3
2						
## 127	3	5	4	1	1	3
1						
## 128	4	3	3	3	4	4
3						
## 129	5	5	5	1	5	5
5						
## 130	5	4	5	3	1	2
2						
## 131	4	2	2	1	1	4
2						
## 132	5	4	3	1	1	2
2						
## 133	5	4	3	1	1	1
1						
## 134	5	3	2	4	1	4
2						
## 135	5	3	4	3	3	3
3						
## 136	5	3	2	1	3	5
1						
## 137	5	3	4	3	2	3
2						
## 138	5	3	4	3	3	5
5						
## 139	5	3	2	3	3	4
5						
## 140	5	4	5	3	2	3
3						
## 141	5	4	3	2	1	2
3						
## 142	3	4	1	3	1	3
1						

## 143	5	4	4	1	3	2
2						
## 144	5	4	4	2	1	1
2						
## 145	5	2	3	1	2	3
2						
## 146	1	4	4	1	1	2
2						
## 147	5	3	5	2	1	4
1						
## 148	5	4	3	2	3	2
2						
## 149	4	3	4	4	4	3
3						
## 150	2	3	1	3	1	3
4						
## 151	5	2	2	2	3	4
4						
## 152	5	4	3	1	1	3
2						
## 153	5	3	5	2	2	3
3						
## 154	2	5	5	2	2	3
2						
## 155	5	3	1	2	4	5
1						
## 156	5	4	4	3	3	5
2						
## 157	5	4	2	4	3	4
2						
## 158	5	5	4	4	4	2
2						
## 159	5	3	4	2	1	3
2						
## 160	5	3	4	4	3	5
4						
## 161	5	3	3	2	1	2
1						
## 162	5	3	2	2	2	2
2						
## 163	4	2	3	5	4	5
2						
## 164	5	5	3	1	1	2
1						
## 165	5	4	4	2	1	3
2						
## 166	5	4	5	2	4	3
1						
## 167	5	5	1	2	1	3
1						

## 168	3	3	3	2	2	3
2						
## 169	5	4	4	1	2	4
3						
## 170	5	3	2	1	2	4
4						
## 171	4	3	2	3	2	2
1						
## 172	5	4	3	1	2	4
3						
## 173	5	3	2	3	3	4
4						
## 174	5	3	2	1	2	4
4						
## 175	5	2	1	5	3	3
3						
## 176	5	3	1	1	1	5
3						
## 177	5	3	3	5	1	1
1						
## 178	5	3	1	4	2	4
3						
## 179	4	3	1	3	3	5
2						
## 180	4	3	1	2	2	5
2						
## 181	4	4	2	1	1	3
3						
## 182	5	3	4	3	3	4
3						
## 183	5	3	4	3	2	4
4						
## 184	5	3	3	2	1	2
5						
## 185	5	4	2	2	2	3
4						
## 186	3	3	3	1	1	2
5						
## 187	4	2	2	4	2	3
3						
## 188	5	3	1	2	2	2
1						
## 189	3	3	3	3	2	5
4						
## 190	5	3	1	3	2	5
3						
## 191	4	4	2	2	2	4
2						
## 192	5	3	2	5	2	4
5						

## 193	5	1	4	1	2	3
3						
## 194	5	3	1	4	3	5
3						
## 195	5	4	1	2	1	3
2						
## 196	5	3	2	2	2	3
2						
## 197	5	3	2	2	2	2
3						
## 198	5	3	3	2	3	1
4						
## 199	5	3	3	4	2	2
2						
## 200	5	4	4	1	1	1
1						
## 201	4	3	3	1	2	4
3						
## 202	5	3	2	4	3	3
3						
## 203	5	3	5	1	1	1
1						
## 204	5	3	4	2	2	3
1						
## 205	5	3	3	3	2	3
3						
## 206	5	1	2	4	3	5
5						
## 207	5	3	5	2	2	5
5						
## 208	5	3	2	3	3	4
5						
## 209	5	3	3	2	1	3
2						
## 210	5	2	4	3	3	4
3						
## 211	5	4	5	5	5	5
1						
## 212	5	4	5	1	2	2
5						
## 213	5	3	1	3	3	5
1						
## 214	5	4	4	2	3	3
4						
## 215	4	3	2	2	2	3
3						
## 216	1	3	2	2	1	1
1						
## 217	5	4	1	1	1	1
1						

## 218	5	3	4	1	3	2
5						
## 219	5	4	2	1	3	2
3						
## 220	5	5	5	1	1	1
2						
## 221	5	3	4	3	3	4
2						
## 222	5	3	4	5	1	4
3						
## 223	5	3	3	2	4	4
3						
## 224	5	3	3	3	2	3
1						
## 225	5	3	2	2	3	5
4						
## 226	5	4	2	3	2	4
4						
## 227	5	5	5	5	4	3
3						
## 228	5	2	2	4	3	5
3						
## 229	4	3	3	5	3	4
2						
## 230	4	3	4	2	4	1
1						
## 231	5	2	2	5	4	5
5						
## 232	5	1	3	2	3	2
2						
## 233	5	3	1	2	4	4
1						
## 234	4	4	4	2	2	4
3						
## 235	4	4	4	4	3	2
1						
## 236	5	3	1	1	1	3
3						
## 237	1	3	3	3	2	3
5						
## 238	5	4	4	2	1	3
3						
## 239	5	2	2	1	2	2
3						
## 240	5	3	4	2	1	5
2						
## 241	3	4	2	1	1	1
1						
## 242	5	4	2	1	1	3
5						

## 243	3	3	3	2	1	2
5						
## 244	5	3	2	1	2	4
5						
## 245	5	3	5	2	4	3
5						
## 246	5	3	2	3	3	2
2						
## 247	5	3	3	2	3	4
1						
## 248	5	3	3	2	1	4
5						
## 249	5	3	4	1	1	4
3						
## 250	5	3	3	4	4	4
4						
## 251	5	3	3	2	1	2
2						
## 252	5	5	5	2	2	3
5						
## 253	5	2	2	2	3	3
3						
## 254	5	3	3	1	2	1
1						
## 255	5	3	5	3	2	2
5						
## 256	5	3	2	5	4	5
5						
## 257	5	3	3	4	2	1
2						
## 258	5	3	5	3	2	3
3						
## 259	5	4	1	2	1	5
1						
## 260	2	3	3	3	3	2
2						
## 261	3	3	3	3	3	3
3						
## 262	5	3	4	2	3	2
2						
## 263	5	4	3	4	2	5
4						
## 264	5	5	5	2	2	2
4						
## 265	3	3	3	3	1	3
3						
## 266	5	3	3	2	1	2
3						
## 267	5	3	3	3	2	3
3						

## 268	5	3	4	3	4	4
3						
## 269	5	3	3	2	1	2
2						
## 270	5	3	3	1	2	4
4						
## 271	5	3	3	2	1	1
3						
## 272	5	3	4	3	1	1
1						
## 273	5	3	2	4	3	5
3						
## 274	5	3	4	2	2	4
4						
## 275	5	4	5	3	3	2
2						
## 276	5	3	3	3	4	4
5						
## 277	5	4	5	3	5	2
2						
## 278	5	3	2	1	3	3
1						
## 279	5	4	3	5	2	4
3						
## 280	5	3	4	2	2	2
1						
## 281	5	3	4	2	1	3
4						
## 282	5	3	4	2	3	4
1						
## 283	5	3	1	1	2	1
2						
## 284	5	3	4	2	3	3
2						
## 285	1	2	1	1	1	1
1						
## 286	5	4	3	1	1	3
3						
## 287	5	3	3	2	2	4
3						
## 288	5	3	3	1	1	3
2						
## 289	5	3	5	3	5	3
1						
## 290	5	3	4	2	2	3
4						
## 291	4	3	4	1	1	2
4						
## 292	4	3	3	3	3	3
3						

## 293	5	4	5	2	3	2
5						
## 294	5	1	2	2	2	4
4						
## 295	5	3	2	2	1	4
2						
## 296	5	3	3	2	5	3
3						
## 297	5	4	5	1	1	1
1						
## 298	5	3	2	1	2	3
2						
## 299	5	3	5	2	3	2
2						
## 300	5	3	4	1	1	3
4						
## 301	5	2	1	5	2	5
2						
## 302	4	2	1	2	1	5
2						
## 303	5	4	5	4	1	2
5						
## 304	4	5	2	2	4	2
5						
## 305	5	3	2	2	1	4
4						
## 306	5	3	3	2	1	2
2						
## 307	5	5	5	3	3	3
3						
## 308	5	3	1	4	3	2
5						
## 309	5	5	5	2	3	3
2						
## 310	5	3	4	2	1	3
3						
## 311	5	5	4	1	1	3
2						
## 312	5	4	5	5	2	5
5						
## 313	2	4	2	1	1	2
2						
## 314	5	4	3	2	2	4
3						
## 315	5	4	5	4	5	4
5						
## 316	5	3	1	1	1	3
3						
## 317	5	3	4	1	1	1
3						

## 318	5	3	5	2	2	2
1						
## 319	5	3	2	3	4	3
3						
## 320	5	3	4	3	2	4
5						
## 321	5	4	3	2	2	2
2						
## 322	5	3	3	2	4	3
4						
## 323	5	3	2	2	1	4
3						
## 324	5	2	2	1	4	5
4						
## 325	5	3	4	2	2	2
2						
## 326	5	3	4	4	3	3
3						
## 327	5	4	3	2	2	3
2						
## 328	5	3	3	2	1	4
4						
## 329	5	5	3	3	4	2
1						
## 330	5	3	4	2	3	3
2						
## 331	5	3	4	2	1	4
3						
## 332	5	5	3	2	3	3
3						
## 333	4	3	3	2	3	3
5						
## 334	5	2	3	2	3	3
4						
## 335	5	2	2	3	3	2
3						
## 336	5	5	4	3	2	3
3						
## 337	5	4	3	1	2	3
2						
## 338	5	3	5	1	2	3
2						
## 339	5	3	3	3	2	4
3						
## 340	5	3	2	2	1	5
3						
## 341	5	1	1	3	2	5
3						
## 342	5	4	1	1	1	1
1						

## 343	5	3	3	2	2	2
4						
## 344	5	4	3	5	2	2
5						
## 345	5	3	2	4	4	1
2						
## 346	4	3	4	2	1	1
2						
## 347	5	4	1	1	1	1
1						
## 348	5	4	3	2	2	2
2						
## 349	5	4	3	5	2	5
5						
## 350	5	4	5	2	1	2
3						
## 351	2	3	4	2	2	1
1						
## 352	5	3	3	2	4	5
3						
## 353	5	5	2	1	3	2
1						
## 354	5	3	3	1	2	3
2						
## 355	5	3	3	3	2	4
4						
## 356	5	4	2	1	3	1
2						
## 357	4	4	3	3	4	4
4						
## 358	5	4	3	1	1	2
2						
## 359	4	3	5	3	3	2
1						
## 360	5	3	4	2	4	3
2						
## 361	5	3	4	1	2	1
3						
## 362	5	1	3	5	5	5
2						
## 363	5	3	2	3	2	4
5						
## 364	5	3	1	3	2	4
5						
## 365	2	4	4	2	3	3
2						
## 366	5	3	2	2	3	4
2						
## 367	5	2	2	1	2	2
2						

## 368	5	3	3	1	3	4
1						
## 369	5	4	5	2	2	3
3						
## 370	5	3	5	3	2	1
1						
## 371	5	4	3	3	2	4
3						
## 372	5	3	5	5	5	5
5						
## 373	4	4	2	2	2	2
2						
## 374	5	4	2	1	1	1
1						
## 375	5	3	5	2	2	1
2						
## 376	5	3	4	2	1	1
3						
## 377	5	5	3	1	1	1
1						
## 378	5	3	2	3	3	4
2						
## 379	5	5	5	2	2	2
4						
## 380	5	3	5	4	3	4
5						
## 381	5	4	4	3	2	2
3						
## 382	5	4	2	2	3	4
3						
## 383	5	3	4	3	4	2
2						
## 384	5	3	2	2	2	3
4						
## 385	5	4	3	1	1	2
3						
## 386	5	3	5	4	4	5
4						
## 387	5	3	3	2	1	2
3						
## 388	5	3	5	2	2	2
4						
## 389	5	3	3	4	2	4
4						
## 390	5	4	3	2	2	3
3						
## 391	4	3	1	1	2	3
2						
## 392	4	4	3	3	3	3
3						

## 393	5	4	4	3	1	3
2						
## 394	5	4	1	1	3	1
1						
## 395	5	3	3	1	1	2
1						
## 396	5	4	3	1	3	1
2						
## 397	5	3	3	4	2	5
4						
## 398	5	3	3	5	2	2
3						
## 399	5	4	3	3	2	2
2						
## 400	5	4	2	4	1	5
5						
## 401	5	3	4	1	2	3
1						
## 402	5	3	2	1	3	1
3						
## 403	5	3	5	5	1	5
2						
## 404	2	3	2	3	3	3
4						
## 405	5	3	4	5	5	5
2						
## 406	4	3	3	3	3	3
3						
## 407	5	3	4	5	1	4
5						
## 408	5	3	4	2	3	3
3						
## 409	5	5	3	4	3	5
5						
## 410	5	4	5	1	5	1
5						
## 411	5	5	4	2	1	3
1						
## 412	5	3	3	2	2	3
4						
## 413	5	5	3	1	1	1
1						
## 414	5	3	4	3	1	2
2						
## 415	5	3	4	3	2	5
3						
## 416	5	3	3	1	1	1
1						
## 417	4	2	5	1	1	4
2						

## 418	5	5	1	2	1	2
2						
## 419	5	1	4	4	2	2
3						
## 420	5	3	5	2	5	5
5						
## 421	5	4	1	1	1	3
1						
## 422	5	2	2	3	2	5
5						
## 423	5	5	4	1	1	1
4						
## 424	5	2	3	2	1	3
3						
## 425	5	5	5	3	3	2
2						
## 426	5	3	3	1	1	2
3						
## 427	5	2	1	1	1	1
1						
## 428	5	3	3	3	1	5
1						
## 429	5	3	5	3	2	4
5						
## 430	5	4	2	1	2	3
2						
## 431	5	5	3	3	3	4
2						
## 432	4	3	4	1	3	2
3						
## 433	5	3	2	2	2	3
1						
## 434	5	3	4	4	4	2
4						
## 435	5	4	4	1	2	2
3						
## 436	5	3	1	1	1	1
2						
## 437	4	3	2	2	2	2
1						
## 438	5	3	2	1	1	1
2						
## 439	5	3	1	1	1	2
3						
## 440	5	5	5	2	2	1
1						
## 441	5	3	4	1	2	4
3						
## 442	5	1	3	2	1	2
2						

## 443	5	3	4	2	4	3
3						
## 444	4	3	2	2	2	4
3						
## 445	5	4	3	2	4	2
2						
## 446	5	3	4	2	2	2
3						
## 447	4	3	4	1	2	2
1						
## 448	3	2	1	3	3	3
4						
## 449	5	3	4	2	2	2
2						
## 450	5	3	3	3	1	2
5						
## 451	5	4	4	3	1	5
3						
## 452	5	3	3	2	2	3
1						
## 453	5	3	4	1	1	1
1						
## 454	5	4	2	2	1	1
5						
## 455	4	4	2	1	1	2
3						
## 456	5	3	4	2	1	2
3						
## 457	5	5	3	1	1	1
1						
## 458	5	4	4	2	1	2
1						
## 459	5	4	5	5	5	5
5						
## 460	4	2	2	2	3	3
3						
## 461	5	4	3	1	1	1
1						
## 462	5	3	2	4	3	3
3						
## 463	4	3	3	1	2	3
1						
## 464	5	3	3	1	1	3
3						
## 465	5	4	4	3	3	3
2						
## 466	5	3	3	2	2	3
4						
## 467	5	3	3	1	3	3
3						

## 468	4	2	4	3	2	3
2						
## 469	5	3	3	2	4	4
2						
## 470	5	5	5	1	1	1
1						
## 471	4	3	4	3	1	2
3						
## 472	5	3	4	2	2	2
2						
## 473	3	3	2	2	4	3
2						
## 474	5	2	1	1	1	1
1						
## 475	5	3	5	1	1	3
1						
## 476	5	3	3	2	5	4
5						
## 477	5	3	2	1	1	4
3						
## 478	5	3	2	1	1	2
4						
## 479	5	4	5	2	3	2
3						
## 480	5	3	3	2	2	3
3						
## 481	5	4	5	3	5	3
4						
## 482	5	4	4	4	1	5
1						
## 483	3	4	2	1	3	1
1						
## 484	5	4	3	2	1	5
3						
## 485	5	3	3	1	2	2
2						
## 486	5	3	4	2	1	2
1						
## 487	3	3	4	2	2	2
1						
## 488	5	5	5	2	1	1
1						
## 489	5	3	2	4	3	5
4						
## 490	5	5	2	2	2	1
1						
## 491	4	3	3	2	2	2
3						
## 492	5	3	3	2	2	2
2						

## 493	5	5	3	3	1	4
4						
## 494	5	3	4	1	2	2
1						
## 495	5	3	2	2	1	2
4						
## 496	5	3	2	1	2	2
2						
## 497	3	2	3	2	4	5
4						
## 498	5	4	3	3	3	4
4						
## 499	5	3	3	2	1	3
2						
## 500	5	4	2	4	2	3
2						
## 501	5	3	3	5	2	4
2						
## 502	5	3	4	5	3	4
2						
## 503	5	4	4	3	2	4
2						
## 504	5	3	2	2	1	5
5						
## 505	5	3	5	1	1	2
2						
## 506	5	4	3	4	2	2
2						
## 507	5	4	2	1	1	1
1						
## 508	5	4	3	4	3	3
4						
## 509	5	3	1	3	5	4
1						
## 510	4	5	4	5	2	3
4						
## 511	5	3	5	3	3	4
4						
## 512	5	3	3	1	2	3
2						
## 513	5	1	2	4	1	2
1						
## 514	5	4	3	1	1	2
3						
## 515	5	3	1	5	5	2
2						
## 516	5	4	4	3	3	3
4						
## 517	5	5	5	3	1	2
3						

## 518 4	5		3	3	1	1	4
## 519 2	5		4	4	2	2	3
## 520 1	5		4	4	3	1	2
## 521 2	5		3	3	1	2	2
## 522 4	5		3	5	5	1	5
## 523 3	5		3	4	2	2	3
## 524 1	5		3	5	2	1	2
## 525 2	5		3	2	1	2	4
## 526 3	3		4	3	3	3	3
## 527 2	5		4	3	1	1	2
## 528 3	4		5	3	1	3	2
## 529 3	5		4	3	1	1	5
## 530 1	5		2	1	2	2	2
## 531 3	5		3	3	5	2	3
## 532 2	5		4	2	5	4	5
## 533 3	5		3	4	2	1	3
## 534 2	5		3	3	1	2	2
## 535 3	5		3	3	3	1	3
## 536 4	5		1	3	3	4	4
## 537 2	5		5	2	1	1	1
## 538 3	5		3	3	2	1	4
## 539 3	5		3	3	2	1	3
## 540 1	5		3	3	2	2	5
## 541 5	5		3	3	5	1	5
## 542 3	5		4	3	2	2	2

## 543	5	3	5	2	1	2
2						
## 544	5	4	4	1	1	4
2						
## 545	5	4	2	3	1	4
5						
## 546	5	3	3	3	3	3
1						
## 547	5	3	3	2	2	5
5						
## 548	5	4	1	4	2	5
3						
## 549	4	3	1	3	3	3
1						
## 550	5	4	5	1	2	2
3						
## 551	5	3	2	5	4	3
3						
## 552	5	4	3	3	3	2
2						
## 553	5	3	2	3	1	3
3						
## 554	3	3	4	4	2	2
2						
## 555	4	3	3	4	2	3
4						
## 556	5	5	5	3	1	1
2						
## 557	5	3	3	1	1	3
3						
## 558	5	3	2	3	3	2
3						
## 559	4	2	3	1	2	2
4						
## 560	5	3	5	2	2	1
2						
## 561	5	5	4	3	3	4
3						
## 562	5	3	4	3	3	4
2						
## 563	5	5	5	3	2	2
2						
## 564	5	4	4	1	3	3
1						
## 565	5	5	5	1	1	1
1						
## 566	5	3	5	2	2	2
3						
## 567	5	3	3	2	2	2
3						

## 568	5	4	4	2	2	1
1						
## 569	5	4	5	2	1	2
1						
## 570	5	3	4	4	2	3
2						
## 571	5	3	3	1	1	2
1						
## 572	3	5	4	2	1	2
3						
## 573	5	3	3	1	1	4
3						
## 574	4	3	3	1	1	1
1						
## 575	5	5	5	3	1	1
3						
## 576	5	4	3	4	3	4
4						
## 577	5	3	3	2	4	3
5						
## 578	5	4	4	2	1	2
5						
## 579	5	3	3	2	3	2
4						
## 580	5	3	4	3	2	5
2						
## 581	5	3	1	1	1	1
1						
## 582	5	4	2	2	1	1
4						
## 583	3	3	4	3	1	3
3						
## 584	5	4	2	1	1	3
4						
## 585	5	3	4	3	3	2
2						
## 586	5	3	3	3	3	3
2						
## 587	5	5	5	3	4	4
3						
## 588	5	3	2	1	1	1
1						
## 589	5	3	4	1	1	2
5						
## 590	5	4	1	1	1	3
4						
## 591	5	3	3	2	3	3
4						
## 592	4	3	3	3	2	1
5						

## 593	5	3	3	3	1	3
3						
## 594	5	3	2	3	1	4
3						
## 595	5	3	2	3	1	5
1						
## 596	5	5	1	1	1	1
3						
## 597	5	3	4	1	1	2
1						
## 598	5	4	4	2	2	2
2						
## 599	4	3	4	2	3	2
1						
## 600	5	4	5	3	4	2
2						
## 601	5	3	2	1	1	5
3						
## 602	5	3	1	4	3	4
3						
## 603	4	4	4	2	3	2
2						
## 604	5	4	3	2	2	3
4						
## 605	5	3	3	2	2	1
3						
## 606	5	3	1	5	5	2
3						
## 607	4	3	3	2	1	2
2						
## 608	3	3	3	1	3	3
3						
## 609	3	4	2	4	2	4
2						
## 610	4	3	3	2	2	5
2						
## 611	5	4	3	2	2	3
2						
## 612	5	3	3	2	1	1
1						
## 613	5	3	5	1	1	3
2						
## 614	5	2	3	2	2	2
1						
## 615	5	3	4	1	1	3
2						
## 616	5	3	3	3	1	5
4						
## 617	3	3	4	1	5	4
1						

## 618	5	3	3	2	4	5
5						
## 619	5	5	5	4	2	5
5						
## 620	5	1	3	3	1	5
4						
## 621	5	3	2	1	1	5
2						
## 622	4	1	4	1	2	2
2						
## 623	5	3	5	4	4	5
5						
## 624	5	4	2	3	3	1
1						
## 625	5	2	3	1	2	1
2						
## 626	5	4	5	3	2	3
3						
## 627	5	3	4	2	2	1
1						
## 628	5	5	4	4	3	1
4						
## 629	4	4	3	1	1	2
2						
## 630	5	3	5	3	2	2
2						
## 631	5	5	4	1	3	2
3						
## 632	5	3	5	2	1	4
5						
## 633	5	4	4	3	2	2
2						
## 634	5	4	3	5	3	1
1						
## 635	5	3	3	4	2	4
4						
## 636	4	2	4	4	2	3
4						
## 637	5	3	3	5	4	3
3						
## 638	5	2	2	3	2	4
3						
## 639	5	3	3	3	2	2
5						
## 640	5	3	2	1	2	1
1						
## 641	5	4	5	2	2	4
3						
## 642	5	3	3	3	3	3
3						

## 643	4	3	4	4	2	5
5						
## 644	5	3	4	2	1	3
3						
## 645	4	5	3	3	2	2
2						
## 646	5	4	4	2	1	4
4						
## 647	4	3	3	1	2	3
4						
## 648	5	3	3	1	3	5
4						
## 649	5	4	5	5	2	2
5						
## 650	5	3	5	2	2	2
2						
## 651	5	3	4	1	1	1
2						
## 652	5	4	4	2	2	3
2						
## 653	4	3	3	2	1	3
1						
## 654	5	3	3	2	2	3
2						
## 655	4	3	4	3	2	3
2						
## 656	5	3	3	2	2	2
2						
## 657	5	3	2	2	2	4
2						
## 658	5	3	4	1	1	1
3						
## 659	5	3	5	2	2	3
2						
## 660	5	2	2	1	1	3
3						
## 661	5	3	2	2	1	3
1						
## 662	5	4	3	1	1	2
3						
## 663	5	4	3	2	2	1
3						
## 664	5	3	3	3	2	4
3						
## 665	5	2	3	4	4	3
4						
## 666	5	3	1	2	1	3
1						
## 667	5	3	2	1	2	2
2						

## 668	5	3	2	1	1	5
3						
## 669	5	3	1	2	3	4
2						
## 670	4	3	4	2	3	3
4						
## 671	5	3	3	2	2	2
3						
## 672	5	3	3	3	3	2
3						
## 673	3	1	2	4	2	5
5						
## 674	4	3	2	2	1	3
4						
## 675	5	4	3	3	1	3
1						
## 676	5	3	3	3	3	3
5						
## 677	5	4	2	2	1	2
2						
## 678	4	3	3	2	1	3
3						
## 679	5	3	2	3	3	3
3						
## 680	5	3	2	2	1	2
2						
## 681	5	4	4	3	4	2
4						
## 682	5	5	4	3	2	4
4						
## 683	4	4	4	2	3	3
3						
## 684	5	3	2	5	5	3
3						
## 685	5	5	5	1	1	2
3						
## 686	5	3	3	2	3	3
4						
## 687	2	4	4	4	4	4
3						
## 688	5	3	3	1	2	3
3						
## 689	5	4	4	3	1	3
4						
## 690	5	3	3	1	2	2
1						
## 691	5	4	4	1	2	3
2						
## 692	5	3	4	2	2	2
3						

## 693	5	3	2	3	3	3
3						
## 694	5	3	3	2	2	3
2						
## 695	5	3	3	3	4	5
2						
## 696	5	4	4	2	2	3
5						
## 697	5	3	3	5	3	1
5						
## 698	5	3	3	1	1	3
3						
## 699	5	5	5	4	1	3
3						
## 700	5	3	4	3	1	2
3						
## 701	5	3	3	3	2	1
1						
## 702	5	5	5	4	3	4
2						
## 703	5	2	1	3	3	5
2						
## 704	4	3	3	3	3	3
2						
## 705	5	3	4	2	1	2
4						
## 706	5	4	5	1	2	4
3						
## 707	5	3	4	2	3	3
4						
## 708	5	3	2	2	1	3
4						
## 709	5	4	2	1	1	2
3						
## 710	5	3	3	2	2	2
2						
## 711	4	4	4	3	3	2
2						
## 712	4	3	3	3	4	2
2						
## 713	5	3	2	2	2	2
4						
## 714	5	3	3	4	4	3
3						
## 715	5	3	5	3	3	1
3						
## 716	4	3	2	3	3	3
4						
## 717	5	3	2	4	5	5
3						

## 718	5	3	1	1	1	4
3						
## 719	5	4	3	2	2	4
3						
## 720	4	3	3	1	3	3
1						
## 721	4	3	4	2	1	5
3						
## 722	5	3	3	5	1	5
3						
## 723	5	3	3	3	2	5
3						
## 724	5	3	4	2	3	3
4						
## 725	4	3	5	3	3	2
5						
## 726	5	4	4	2	2	4
1						
## 727	5	3	2	4	2	1
1						
## 728	5	2	2	1	3	1
1						
## 729	5	4	5	1	3	2
5						
## 730	5	3	2	2	2	5
4						
## 731	5	4	1	2	1	3
3						
## 732	5	3	3	2	2	3
2						
## 733	5	4	2	1	1	4
2						
## 734	4	3	3	5	5	5
4						
## 735	5	3	3	4	5	5
5						
## 736	2	1	1	3	2	4
2						
## 737	4	3	5	2	4	5
5						
## 738	5	1	3	2	1	3
4						
## 739	5	5	4	1	1	1
1						
## 740	5	5	3	3	4	4
4						
## 741	4	3	5	2	2	2
2						
## 742	5	3	3	5	1	5
3						

## 743	5	3	1	3	4	5
3						
## 744	2	3	2	2	2	2
2						
## 745	5	4	2	3	2	5
4						
## 746	5	3	3	4	3	2
2						
## 747	5	3	3	1	2	3
3						
## 748	5	3	4	3	1	5
4						
## 749	5	3	3	3	3	5
4						
## 750	5	3	2	4	4	1
1						
## 751	5	3	5	5	2	5
3						
## 752	5	3	2	4	1	5
5						
## 753	5	4	5	2	1	3
4						
## 754	5	3	3	2	2	4
3						
## 755	4	4	2	1	3	2
1						
## 756	5	3	2	2	3	3
3						
## 757	5	4	3	3	4	3
3						
## 758	5	3	5	3	3	5
5						
## 759	5	5	4	1	1	2
1						
## 760	5	3	5	4	3	5
5						
## 761	5	3	5	2	2	2
2						
## 762	5	4	3	1	1	1
1						
## 763	5	3	4	1	1	1
1						
## 764	5	3	3	2	1	3
3						
## 765	5	2	3	1	2	3
4						
## 766	5	3	2	1	2	4
3						
## 767	5	5	5	5	5	4
4						

## 768	1	1	2	3	4	3
3						
## 769	4	3	3	1	2	3
1						
## 770	3	3	3	3	3	3
3						
## 771	1	1	1	1	1	1
1						
## 772	5	2	2	4	4	4
2						
## 773	5	4	3	1	2	4
3						
## 774	5	4	4	2	2	2
2						
## 775	3	3	2	1	1	4
3						
## 776	5	3	2	1	1	4
3						
## 777	5	3	5	5	1	3
3						
## 778	5	5	3	1	2	3
2						
## 779	5	3	2	1	1	1
3						
## 780	5	3	3	3	4	4
4						
## 781	5	3	3	1	2	2
3						
## 782	4	2	4	1	2	3
2						
## 783	5	3	2	3	4	4
4						
## 784	5	3	2	5	2	4
5						
## 785	4	3	4	3	1	4
4						
## 786	4	4	3	3	3	3
4						
## 787	5	3	3	2	2	4
3						
## 788	5	3	2	2	1	2
4						
## 789	5	3	2	1	2	3
3						
## 790	5	5	4	3	3	5
3						
## 791	5	5	3	2	2	4
1						
## 792	5	3	3	1	1	3
1						

## 793	5	4	3	2	2	3
1						
## 794	2	3	3	1	2	3
3						
## 795	4	5	3	1	1	1
1						
## 796	5	1	5	1	5	1
5						
## 797	3	5	3	2	2	4
3						
## 798	5	1	5	1	2	3
4						
## 799	5	3	3	2	1	4
3						
## 800	5	3	1	2	3	4
5						
## 801	5	3	4	1	1	2
4						
## 802	4	5	5	1	1	1
1						
## 803	5	5	5	3	2	2
2						
## 804	5	5	2	1	1	2
4						
## 805	5	1	4	1	1	4
4						
## 806	5	4	4	3	1	3
5						
## 807	1	1	1	1	1	1
1						
## 808	3	3	1	3	3	5
5						
## 809	5	4	3	1	2	3
2						
## 810	4	3	4	1	1	2
1						
## 811	5	3	2	3	4	5
5						
## 812	5	3	2	3	3	4
2						
## 813	5	4	1	1	1	1
1						
## 814	5	4	2	1	1	1
1						
## 815	5	4	4	3	1	5
4						
## 816	5	5	2	3	4	3
1						
## 817	5	4	3	3	1	4
3						

## 818	3	4	1	1	1	1
2						
## 819	4	4	3	3	1	4
1						
## 820	5	5	3	1	2	2
1						
## 821	5	3	2	2	2	4
5						
## 822	5	3	2	2	2	5
4						
## 823	5	4	3	1	1	2
3						
## 824	5	2	3	2	2	3
1						
## 825	5	3	1	1	2	5
1						
## 826	4	3	1	3	1	4
2						
## 827	5	3	3	3	1	4
4						
## 828	5	3	3	4	3	4
5						
## 829	1	3	4	1	2	1
2						
## 830	5	3	1	2	2	5
4						
## 831	5	3	4	2	1	3
2						
## 832	5	3	4	2	4	4
4						
## 833	5	3	3	4	5	5
5						
## 834	3	3	2	1	1	4
3						
## 835	4	3	4	3	2	4
4						
## 836	4	3	3	2	2	2
3						
## 837	5	3	2	1	1	2
3						
## 838	5	3	4	3	2	5
3						
## 839	5	5	4	1	1	1
2						
## 840	4	3	4	2	1	2
4						
## 841	5	4	2	3	3	1
4						
## 842	5	5	4	3	3	2
1						

## 843	5	5	4	2	1	3
3						
## 844	5	4	4	2	3	3
3						
## 845	5	4	2	5	4	5
5						
## 846	4	4	3	1	1	1
3						
## 847	5	3	5	2	2	3
3						
## 848	5	2	3	4	2	5
5						
## 849	5	2	2	1	1	3
1						
## 850	3	2	1	4	4	5
3						
## 851	4	3	4	1	2	3
4						
## 852	5	5	3	1	1	2
2						
## 853	5	4	2	1	2	2
1						
## 854	5	3	4	4	2	3
4						
## 855	5	2	4	2	1	1
2						
## 856	5	4	5	3	3	3
2						
## 857	5	3	3	2	1	3
4						
## 858	5	4	4	2	3	3
5						
## 859	3	1	3	3	2	5
3						
## 860	5	3	4	4	2	3
3						
## 861	5	3	4	3	3	3
3						
## 862	5	3	3	2	1	3
1						
## 863	5	4	4	2	2	3
2						
## 864	5	5	3	2	2	4
4						
## 865	5	3	3	2	3	3
4						
## 866	4	2	4	3	2	3
4						
## 867	4	3	2	3	3	4
4						

## 868	5	3	4	2	4	2
3						
## 869	5	4	3	4	3	2
4						
## 870	5	3	2	1	2	5
4						
## 871	5	4	4	2	1	2
1						
## 872	5	3	3	2	1	4
3						
## 873	5	3	2	3	1	3
3						
## 874	4	4	4	2	2	3
3						
## 875	5	3	5	1	1	1
2						
## 876	5	3	3	1	1	1
3						
## 877	5	3	3	1	2	3
1						
## 878	5	3	1	3	5	3
1						
## 879	4	2	2	2	2	4
5						
## 880	4	5	5	1	4	2
1						
## 881	5	3	5	1	2	1
2						
## 882	5	3	1	1	3	5
5						
## 883	5	4	4	1	1	2
1						
## 884	5	3	3	1	1	2
3						
## 885	5	3	4	2	1	4
1						
## 886	3	4	3	2	2	2
3						
## 887	5	5	3	2	1	3
1						
## 888	4	3	3	2	4	3
3						
## 889	5	3	3	2	1	2
2						
## 890	5	3	3	3	4	5
3						
## 891	5	3	5	1	2	3
2						
## 892	5	3	4	3	2	1
3						

## 893	5	3	3	3	2	2
3						
## 894	5	3	2	3	4	3
2						
## 895	5	4	3	1	1	2
3						
## 896	4	4	4	2	3	2
2						
## 897	5	3	2	3	4	3
4						
## 898	5	3	2	2	3	1
2						
## 899	5	3	2	2	1	3
2						
## 900	5	3	2	1	2	2
1						
## 901	5	2	2	1	2	3
4						
## 902	4	3	1	2	2	2
2						
## 903	5	3	1	2	2	3
1						
## 904	5	5	2	4	3	2
1						
## 905	3	3	2	1	2	2
5						
## 906	5	3	4	3	3	2
2						
## 907	5	3	5	3	1	5
5						
## 908	5	4	4	3	2	2
3						
## 909	5	2	3	2	3	2
1						
## 910	5	3	4	3	2	3
4						
## 911	5	4	2	1	1	3
4						
## 912	5	3	2	2	1	4
5						
## 913	5	4	4	2	1	1
1						
## 914	5	3	4	4	2	4
3						
## 915	5	4	2	3	1	5
3						
## 916	4	4	5	2	3	1
3						
## 917	4	3	2	2	1	3
1						

## 918	5	4	2	2	2	3
2						
## 919	4	3	2	2	1	2
4						
## 920	5	1	3	2	1	3
1						
## 921	4	4	3	3	3	3
5						
## 922	5	3	4	2	2	1
1						
## 923	5	3	5	1	1	3
2						
## 924	5	4	2	2	1	5
2						
## 925	5	3	3	1	1	1
1						
## 926	5	3	4	3	3	2
4						
## 927	5	3	3	2	2	2
2						
## 928	5	3	5	1	1	1
1						
## 929	5	3	4	2	2	5
3						
## 930	3	2	3	5	1	4
2						
## 931	5	3	3	2	1	2
3						
## 932	5	3	4	2	2	1
3						
## 933	5	3	4	2	2	1
3						
## 934	5	3	2	2	3	5
4						
## 935	5	3	3	2	2	2
3						
## 936	5	3	3	1	1	1
2						
## 937	4	3	2	3	2	3
1						
## 938	5	3	4	1	1	5
4						
## 939	5	3	2	5	1	5
1						
## 940	4	3	4	1	4	5
3						
## 941	5	3	2	1	1	3
3						
## 942	5	3	3	2	1	2
2						

## 943	5	2	5	3	2	4
1						
## 944	4	3	3	2	1	5
2						
## 945	5	4	3	3	2	4
3						
## 946	5	2	5	2	3	3
3						
## 947	5	5	2	1	2	4
3						
## 948	5	3	3	1	1	2
1						
## 949	5	3	4	3	2	3
4						
## 950	5	3	3	2	3	1
2						
## 951	5	3	2	3	3	4
2						
## 952	4	3	4	1	1	1
1						
## 953	5	2	3	3	3	4
3						
## 954	5	3	3	1	3	3
3						
## 955	5	3	5	3	2	2
3						
## 956	5	3	2	1	2	1
1						
## 957	5	4	3	1	4	3
4						
## 958	5	4	2	1	1	1
2						
## 959	5	5	5	3	1	3
3						
## 960	4	3	3	2	3	4
4						
## 961	5	3	4	4	1	5
1						
## 962	5	3	4	4	1	3
4						
## 963	5	2	3	4	4	5
3						
## 964	4	4	4	3	3	5
1						
## 965	5	4	3	2	3	3
3						
## 966	5	5	5	3	3	3
5						
## 967	5	5	1	1	1	5
5						

## 968	5	3	2	2	2	3
2						
## 969	5	4	3	2	2	3
3						
## 970	5	3	2	1	2	3
2						
## 971	5	3	5	1	4	5
5						
## 972	5	4	2	4	3	4
2						
## 973	5	3	3	3	3	3
4						
## 974	5	3	2	5	5	4
5						
## 975	5	3	1	2	2	2
2						
## 976	5	3	5	5	5	5
5						
## 977	5	3	4	2	3	3
5						
## 978	5	4	4	2	2	1
1						
## 979	5	2	2	1	2	2
1						
## 980	5	3	4	2	2	4
4						
## 981	5	3	2	2	2	5
1						
## 982	5	4	1	2	4	5
5						
## 983	5	4	2	1	1	3
2						
## 984	5	4	3	1	1	3
3						
## 985	5	2	1	3	2	3
3						
## 986	5	2	1	3	2	4
2						
## 987	4	3	2	5	3	5
2						
## 988	4	3	2	2	3	2
1						
## 989	5	2	3	2	2	5
2						
## 990	5	5	3	2	2	4
5						
## 991	5	4	2	1	1	2
2						
## 992	5	5	2	1	1	1
1						

## 993	4			4	4	1	4		4		
1											
## 994	5			3	3	1	2		3		
1											
## 995	5			4	3	2	2		3		
4											
## 996	5			4	2	1	1		1		
2											
## 997	5			3	1	1	1		3		
2											
## 998	5			4	3	3	3		1		
3											
## 999	5			4	4	3	1		3		
2											
## 1000	5			5	5	3	4		5		
4											
## 1001	5			3	3	3	2		3		
3											
## 1002	5			5	5	1	2		1		
4											
## 1003	5			5	3	1	3		1		
1											
## 1004	4			3	4	3	2		2		
3											
## 1005	5			3	4	1	2		3		
2											
## 1006	5			2	5	2	2		5		
4											
## 1007	4			4	5	1	3		4		
1											
## 1008	4			3	1	1	2		2		
2											
## 1009	5			3	3	3	1		3		
1											
## 1010	5			5	4	3	2		3		
3											
##	Pop	Rock	Metal.or.	Hardrock	Punk	Hiphop..	Rap	Reggae..	Ska	Swing..	Jazz
## 1	5	5			1	1	1		1		1
## 2	3	5			4	4	1		3		1
## 3	3	5			3	4	1		4		3
## 4	2	2			1	4	2		2		1
## 5	5	3			1	2	5		3		2
## 6	2	5			5	3	4		3		4
## 7	5	3			1	1	3		1		1
## 8	4	5			1	2	3		2		2
## 9	3	5			5	1	1		2		2
## 10	3	5			2	3	2		4		4
## 11	4	3			2	1	3		2		2
## 12	2	5			1	1	1		1		2
## 13	3	5			4	2	3		1		1

## 14	5	2	1	1	2	1	3
## 15	4	5	2	5	3	4	4
## 16	3	5	5	5	2	4	2
## 17	4	4	1	3	2	3	2
## 18	4	4	2	3	3	4	3
## 19	5	4	4	3	4	4	4
## 20	2	4	5	2	1	4	5
## 21	2	5	5	4	4	3	5
## 22	2	5	5	4	1	2	1
## 23	4	3	1	2	2	1	1
## 24	4	5	2	3	3	3	3
## 25	3	5	5	5	1	1	1
## 26	5	1	1	1	3	1	2
## 27	4	4	3	2	2	1	3
## 28	2	4	2	4	2	4	2
## 29	3	4	1	3	5	2	1
## 30	3	4	1	3	3	4	3
## 31	4	4	2	2	4	3	4
## 32	5	3	1	1	3	3	2
## 33	3	4	3	4	4	2	2
## 34	4	3	1	1	1	3	4
## 35	4	5	3	4	2	3	3
## 36	5	3	1	1	4	3	1
## 37	4	4	1	1	1	1	1
## 38	2	3	5	2	1	2	2
## 39	5	4	1	2	4	5	2
## 40	5	5	4	4	1	2	1
## 41	5	1	1	1	3	2	1
## 42	1	4	5	1	5	5	5
## 43	5	5	4	4	3	3	3
## 44	5	4	1	2	3	2	2
## 45	4	4	1	1	3	1	3
## 46	5	4	1	2	3	3	3
## 47	5	5	3	2	5	2	3
## 48	4	4	2	2	1	3	3
## 49	3	2	1	2	5	5	2
## 50	3	5	3	5	3	2	2
## 51	5	5	2	4	4	4	3
## 52	5	4	3	2	2	4	4
## 53	5	5	4	2	5	5	5
## 54	4	3	2	2	3	3	3
## 55	5	5	4	3	3	3	4
## 56	4	3	3	2	4	3	3
## 57	4	5	1	4	2	3	4
## 58	2	5	2	2	2	2	4
## 59	5	1	1	1	2	2	1
## 60	3	4	3	5	3	3	4
## 61	4	4	1	3	2	3	3
## 62	4	4	1	2	3	2	3
## 63	5	4	5	4	5	4	5

## 64	2	3	1	1	5	4	3
## 65	4	5	1	3	2	1	2
## 66	3	3	3	2	4	2	2
## 67	5	3	4	3	3	3	3
## 68	5	1	1	1	4	3	4
## 69	3	5	5	5	1	5	4
## 70	5	4	1	1	1	1	1
## 71	5	3	1	1	5	2	3
## 72	4	1	1	1	4	4	1
## 73	5	5	2	4	4	2	2
## 74	5	2	1	2	5	2	2
## 75	2	1	1	1	5	4	1
## 76	1	5	4	4	3	5	4
## 77	2	2	1	3	4	1	1
## 78	5	4	2	1	4	2	2
## 79	5	3	1	1	4	5	5
## 80	5	5	2	2	5	3	3
## 81	4	5	2	3	4	4	3
## 82	5	4	2	3	4	4	3
## 83	1	5	5	4	1	1	2
## 84	5	5	3	1	3	2	4
## 85	1	5	5	5	4	4	5
## 86	3	4	4	1	1	1	2
## 87	4	5	3	3	4	3	3
## 88	4	5	2	4	3	5	3
## 89	5	5	1	1	1	1	5
## 90	3	5	3	3	1	2	4
## 91	3	4	1	3	1	3	1
## 92	3	5	5	5	1	5	1
## 93	2	3	1	2	1	3	5
## 94	4	3	3	3	1	1	5
## 95	4	3	1	3	5	2	1
## 96	3	3	1	2	5	5	4
## 97	2	4	5	4	3	1	1
## 98	2	1	1	1	5	2	2
## 99	3	5	2	1	1	3	2
## 100	4	2	1	3	2	4	1
## 101	4	5	3	2	4	4	3
## 102	2	4	5	4	1	4	3
## 103	1	5	2	5	1	4	5
## 104	5	1	1	1	5	5	4
## 105	2	4	4	3	3	3	4
## 106	2	4	5	1	1	2	3
## 107	4	5	1	2	4	4	4
## 108	2	4	4	1	1	3	4
## 109	2	4	4	3	2	1	1
## 110	3	5	5	3	2	2	2
## 111	4	4	1	1	1	4	5
## 112	3	4	2	2	3	3	4
## 113	3	3	2	2	1	3	4

## 114	4	4	2	1	3	1	1
## 115	4	4	1	3	2	2	2
## 116	5	5	2	2	3	3	3
## 117	3	5	1	2	1	1	2
## 118	5	3	2	1	1	1	1
## 119	3	4	2	4	2	4	4
## 120	4	2	2	1	2	2	2
## 121	2	5	5	2	1	3	5
## 122	4	4	2	2	4	2	2
## 123	1	5	2	4	1	3	4
## 124	3	5	3	1	3	1	5
## 125	3	5	3	3	1	2	4
## 126	2	4	3	3	2	4	5
## 127	4	4	1	4	4	1	1
## 128	4	4	3	3	3	4	3
## 129	5	5	5	1	2	3	1
## 130	4	5	2	2	2	3	4
## 131	2	5	3	3	1	2	2
## 132	4	2	1	2	5	2	1
## 133	4	4	1	5	2	4	3
## 134	1	3	1	1	1	2	5
## 135	3	3	1	1	4	4	4
## 136	3	5	4	4	3	5	4
## 137	4	3	1	1	5	1	1
## 138	5	4	2	2	4	3	5
## 139	2	1	1	1	3	3	4
## 140	5	4	1	2	5	3	4
## 141	4	4	2	2	2	2	5
## 142	3	5	5	4	4	3	1
## 143	4	4	1	1	3	2	1
## 144	4	4	2	3	5	4	1
## 145	4	5	1	3	2	2	2
## 146	2	4	1	1	1	2	1
## 147	5	4	3	4	5	1	1
## 148	3	5	4	3	5	2	2
## 149	5	3	2	3	4	3	2
## 150	1	2	2	2	3	2	1
## 151	3	5	5	3	1	2	4
## 152	2	4	4	4	2	5	4
## 153	4	4	2	1	4	3	3
## 154	4	2	1	2	4	1	4
## 155	1	5	4	4	2	2	3
## 156	3	3	2	3	3	2	4
## 157	3	5	2	5	3	5	2
## 158	4	4	4	4	2	2	2
## 159	5	4	1	3	4	5	4
## 160	4	5	3	3	3	4	3
## 161	1	5	4	5	3	5	4
## 162	4	5	3	3	4	3	2
## 163	4	3	1	1	5	4	3

## 164	4	3	2	1	1	1	1
## 165	4	4	1	3	2	2	4
## 166	4	1	1	1	5	3	3
## 167	1	3	5	2	1	1	1
## 168	3	4	3	4	4	4	3
## 169	4	4	1	3	3	3	3
## 170	3	5	4	3	1	1	3
## 171	3	4	2	2	2	3	5
## 172	4	4	1	1	4	3	3
## 173	2	5	5	5	2	4	4
## 174	3	2	1	1	2	1	2
## 175	1	1	1	1	1	1	1
## 176	3	5	5	2	3	4	4
## 177	3	5	5	3	2	4	3
## 178	1	5	5	3	1	3	3
## 179	2	4	4	3	1	2	2
## 180	1	1	2	1	1	1	4
## 181	2	5	4	5	2	2	1
## 182	3	4	3	3	4	4	5
## 183	4	5	4	3	2	4	3
## 184	4	3	1	1	5	4	4
## 185	2	5	1	2	1	1	4
## 186	3	2	1	1	4	3	3
## 187	4	2	1	1	1	1	3
## 188	4	3	2	2	1	1	2
## 189	3	3	1	1	3	2	2
## 190	1	4	5	4	1	1	1
## 191	2	4	5	3	2	3	2
## 192	5	2	1	1	1	3	4
## 193	5	4	1	3	5	2	1
## 194	1	5	5	4	1	3	3
## 195	2	4	2	4	2	3	1
## 196	2	3	1	1	5	3	3
## 197	4	4	3	3	4	4	3
## 198	2	2	1	1	3	2	2
## 199	3	5	3	5	5	4	2
## 200	2	3	1	1	4	2	1
## 201	4	4	4	3	5	4	3
## 202	5	5	2	3	5	5	1
## 203	3	2	1	1	5	3	1
## 204	4	5	3	3	3	3	2
## 205	2	5	4	4	2	5	4
## 206	4	4	3	1	1	1	4
## 207	3	4	4	3	1	2	4
## 208	3	3	1	4	2	2	3
## 209	4	4	1	5	4	5	5
## 210	2	5	4	3	5	4	5
## 211	4	5	4	3	4	4	4
## 212	5	5	1	1	5	4	4
## 213	2	4	2	3	3	2	4

## 214	5	5	2	5	4	2	2
## 215	3	5	4	3	2	2	5
## 216	3	1	1	1	5	1	1
## 217	1	4	5	3	2	1	1
## 218	4	3	1	2	3	1	2
## 219	4	3	1	1	4	3	1
## 220	3	1	1	1	5	2	1
## 221	1	3	1	2	5	4	4
## 222	3	5	5	4	5	5	5
## 223	5	5	3	3	2	1	4
## 224	4	2	2	1	4	3	4
## 225	4	5	3	4	3	3	2
## 226	2	5	2	4	3	4	4
## 227	4	5	3	3	5	3	2
## 228	2	4	3	3	2	3	5
## 229	3	3	1	2	1	2	5
## 230	4	3	1	4	2	5	3
## 231	5	3	1	3	4	3	3
## 232	4	5	3	3	1	2	3
## 233	2	3	2	2	3	4	5
## 234	4	4	4	4	4	4	2
## 235	4	5	4	4	2	4	1
## 236	3	5	4	2	1	1	3
## 237	4	4	3	3	2	4	3
## 238	4	3	1	1	5	4	3
## 239	4	2	1	1	5	3	2
## 240	2	4	1	3	3	3	4
## 241	2	3	2	1	2	2	2
## 242	3	3	1	2	5	3	3
## 243	5	4	1	1	1	1	2
## 244	5	5	1	4	1	2	4
## 245	5	5	2	3	2	3	3
## 246	3	4	3	4	4	5	4
## 247	4	5	2	2	3	4	4
## 248	3	5	2	3	3	4	5
## 249	4	5	4	3	4	2	2
## 250	5	5	4	4	2	2	4
## 251	4	3	2	2	4	4	2
## 252	5	5	2	4	4	4	3
## 253	4	5	1	2	2	1	3
## 254	3	1	1	1	1	1	1
## 255	5	3	1	1	4	2	1
## 256	3	5	4	3	3	3	4
## 257	5	2	1	1	3	2	1
## 258	4	4	3	1	4	2	3
## 259	1	5	5	2	1	1	4
## 260	3	4	2	2	2	1	3
## 261	3	3	3	3	3	3	3
## 262	5	2	1	2	2	1	1
## 263	2	5	2	1	3	3	5

## 264	5	4	2	2	4	3	2
## 265	5	4	3	3	5	4	3
## 266	5	2	1	1	4	3	3
## 267	4	4	1	1	2	2	4
## 268	2	4	4	4	3	2	2
## 269	5	2	1	1	2	3	3
## 270	3	5	3	4	1	1	1
## 271	4	5	4	5	5	5	5
## 272	4	5	5	5	5	5	4
## 273	2	5	5	5	2	5	4
## 274	4	4	2	4	4	4	5
## 275	4	3	1	1	4	3	2
## 276	3	4	4	3	2	2	4
## 277	5	5	4	3	1	1	1
## 278	4	5	3	1	2	2	3
## 279	3	4	2	3	5	5	2
## 280	4	3	1	3	3	3	1
## 281	2	5	5	3	2	3	2
## 282	2	4	4	5	4	4	5
## 283	3	2	1	1	1	2	1
## 284	4	4	2	4	4	5	5
## 285	1	1	1	1	1	1	1
## 286	5	5	1	1	3	1	2
## 287	4	4	1	3	5	5	3
## 288	4	4	2	4	4	1	3
## 289	2	3	2	1	4	4	2
## 290	4	4	2	2	4	1	2
## 291	4	4	1	1	4	3	4
## 292	3	5	4	4	3	4	3
## 293	5	4	1	3	3	3	3
## 294	1	5	4	5	1	4	3
## 295	3	4	1	4	3	4	4
## 296	4	5	3	2	2	4	3
## 297	5	3	2	2	2	4	1
## 298	2	3	2	3	1	3	3
## 299	4	3	1	1	5	4	4
## 300	2	4	1	3	5	5	3
## 301	2	4	5	3	1	1	3
## 302	1	5	5	1	1	1	2
## 303	5	5	2	2	5	3	1
## 304	4	5	4	2	4	2	2
## 305	4	4	2	1	2	3	2
## 306	2	5	2	3	2	2	3
## 307	3	4	2	4	4	5	5
## 308	2	5	4	3	1	1	5
## 309	4	3	1	1	3	1	1
## 310	3	4	1	1	4	1	1
## 311	4	4	2	1	1	2	1
## 312	5	5	2	2	5	5	5
## 313	3	4	3	2	3	3	3

## 314	4	2	1	1	4	1	3
## 315	5	5	5	5	2	5	5
## 316	5	2	1	1	2	1	1
## 317	3	3	1	2	3	2	1
## 318	3	5	1	2	2	1	2
## 319	3	1	1	3	3	2	4
## 320	5	4	1	2	3	3	4
## 321	3	5	4	3	2	3	2
## 322	4	5	2	2	5	2	3
## 323	2	5	5	5	1	3	3
## 324	5	4	1	3	1	1	1
## 325	5	3	2	3	2	3	3
## 326	4	4	4	4	5	5	2
## 327	5	4	2	2	2	3	3
## 328	5	3	1	1	5	4	3
## 329	2	5	4	5	2	4	3
## 330	4	4	1	2	4	2	2
## 331	3	5	3	3	3	2	3
## 332	2	5	2	2	5	1	5
## 333	3	2	1	1	2	3	1
## 334	5	4	2	2	3	2	3
## 335	2	3	2	2	2	2	4
## 336	4	4	2	2	4	4	4
## 337	5	3	1	2	3	3	3
## 338	3	3	1	1	5	2	2
## 339	3	5	2	2	2	1	1
## 340	2	5	5	5	1	3	3
## 341	2	3	1	2	3	3	2
## 342	2	2	2	2	5	1	1
## 343	3	3	1	2	4	4	3
## 344	5	4	2	2	1	2	2
## 345	5	3	1	1	2	1	1
## 346	4	4	3	4	2	3	2
## 347	3	3	1	1	5	5	1
## 348	4	4	4	4	2	2	1
## 349	4	2	1	1	1	2	5
## 350	5	2	1	1	3	2	3
## 351	4	4	3	3	2	3	1
## 352	5	5	2	4	1	4	4
## 353	2	5	5	1	1	1	1
## 354	4	2	1	1	4	2	2
## 355	4	4	2	3	3	2	2
## 356	4	3	1	1	5	2	1
## 357	5	5	3	2	4	4	3
## 358	2	4	4	3	5	2	2
## 359	3	5	2	1	3	3	3
## 360	5	2	1	2	4	4	2
## 361	5	5	1	1	5	5	3
## 362	2	5	4	2	3	4	5
## 363	3	5	4	5	2	4	2

## 364	3	5	3	5	2	4	1
## 365	4	5	4	3	3	3	2
## 366	1	5	4	5	1	5	4
## 367	4	4	2	2	3	3	1
## 368	5	5	4	4	1	2	5
## 369	5	3	1	1	3	4	3
## 370	2	2	4	2	3	2	1
## 371	5	5	3	3	4	3	3
## 372	5	5	3	3	2	2	5
## 373	2	4	2	5	1	4	2
## 374	5	3	1	1	2	1	1
## 375	5	3	1	1	3	3	2
## 376	5	4	2	2	5	2	2
## 377	4	1	1	1	5	1	1
## 378	3	5	4	3	1	3	4
## 379	5	4	1	1	4	5	1
## 380	4	4	2	2	3	3	4
## 381	4	4	1	1	4	2	2
## 382	2	5	3	3	1	1	3
## 383	5	1	1	1	4	2	1
## 384	3	5	3	4	3	3	3
## 385	3	5	5	3	4	4	4
## 386	4	5	3	3	4	5	5
## 387	4	5	3	3	5	4	2
## 388	5	2	1	1	5	5	3
## 389	5	4	1	3	4	5	5
## 390	3	2	1	1	2	2	4
## 391	2	2	1	2	2	2	3
## 392	3	3	2	1	3	3	3
## 393	4	3	1	1	5	3	1
## 394	1	3	5	3	2	1	1
## 395	3	4	2	1	1	2	2
## 396	3	4	5	3	3	2	2
## 397	3	3	1	1	2	3	4
## 398	4	1	1	1	4	2	1
## 399	2	3	3	3	5	5	3
## 400	4	4	3	4	2	4	3
## 401	4	2	1	1	3	3	2
## 402	2	5	4	1	1	1	1
## 403	4	5	4	1	1	1	1
## 404	3	4	2	2	2	4	2
## 405	4	5	1	5	3	2	2
## 406	3	2	1	2	4	2	4
## 407	5	4	1	1	3	3	4
## 408	3	3	1	3	3	3	5
## 409	3	1	1	1	1	1	4
## 410	4	4	1	3	4	2	3
## 411	4	5	1	5	4	1	1
## 412	5	5	1	1	4	2	4
## 413	3	5	5	1	1	1	1

## 414	4	4	4	4	2	2	2
## 415	5	3	2	1	3	2	3
## 416	5	5	1	2	4	2	1
## 417	4	3	2	2	3	2	2
## 418	1	2	4	5	1	5	1
## 419	5	1	1	1	1	2	1
## 420	5	5	1	1	3	3	4
## 421	2	5	3	5	1	3	2
## 422	5	4	1	1	2	2	5
## 423	5	1	1	1	4	2	1
## 424	5	4	3	3	1	3	3
## 425	3	2	1	1	5	4	4
## 426	4	5	3	5	3	4	3
## 427	2	5	4	1	1	3	4
## 428	2	3	1	2	2	3	5
## 429	5	3	2	4	3	2	2
## 430	2	5	4	4	2	1	2
## 431	4	4	2	2	2	4	3
## 432	2	2	1	1	3	3	3
## 433	1	5	4	3	3	3	3
## 434	5	4	3	4	2	2	2
## 435	5	3	1	1	4	3	3
## 436	3	5	5	3	2	1	1
## 437	4	4	2	2	2	3	2
## 438	3	3	1	2	3	1	1
## 439	4	5	4	4	4	3	1
## 440	4	2	1	1	4	2	2
## 441	4	4	1	1	3	3	3
## 442	5	4	1	3	1	1	1
## 443	5	4	1	4	3	4	4
## 444	3	3	1	2	3	3	3
## 445	2	3	4	4	2	5	4
## 446	5	3	1	1	4	2	3
## 447	3	3	1	1	4	2	1
## 448	1	1	1	1	1	1	1
## 449	4	4	1	1	4	1	2
## 450	3	4	2	2	2	3	3
## 451	5	3	1	1	2	2	1
## 452	4	4	1	1	3	2	3
## 453	5	3	3	3	3	3	2
## 454	3	4	2	2	2	3	3
## 455	4	5	3	4	3	5	4
## 456	5	5	2	5	3	3	2
## 457	3	2	1	4	5	5	1
## 458	4	5	2	3	2	2	2
## 459	5	1	1	1	5	1	1
## 460	2	3	2	3	1	4	3
## 461	2	4	2	4	5	5	1
## 462	3	3	1	1	1	3	3
## 463	3	5	1	4	3	3	3

## 464	5	3	1	1	3	3	1
## 465	3	4	1	4	2	3	2
## 466	3	1	1	2	2	4	4
## 467	4	3	1	1	4	1	3
## 468	3	2	2	1	4	2	1
## 469	4	5	2	2	5	4	4
## 470	4	3	1	3	4	4	2
## 471	5	2	1	1	3	3	2
## 472	3	5	4	5	2	5	3
## 473	4	3	1	2	1	1	1
## 474	2	4	4	3	1	1	1
## 475	5	3	1	1	5	2	1
## 476	3	5	4	4	3	4	3
## 477	4	5	4	3	3	3	5
## 478	2	5	3	3	1	2	3
## 479	4	4	2	2	2	2	2
## 480	3	4	3	4	3	3	4
## 481	5	4	2	3	4	3	4
## 482	1	2	4	1	1	1	4
## 483	3	4	2	4	4	4	3
## 484	4	5	3	5	3	2	4
## 485	4	4	3	3	3	3	4
## 486	4	5	1	1	1	3	5
## 487	4	2	1	1	3	2	3
## 488	1	1	2	4	5	4	2
## 489	3	5	3	2	3	3	5
## 490	2	5	1	5	3	5	2
## 491	3	2	1	1	5	1	1
## 492	4	4	2	3	3	2	2
## 493	2	5	2	2	1	2	3
## 494	5	3	1	1	5	2	2
## 495	2	5	2	2	1	4	5
## 496	3	5	2	4	2	2	1
## 497	3	3	1	1	2	2	2
## 498	5	5	2	3	1	3	5
## 499	2	4	1	1	1	3	2
## 500	4	4	2	4	1	3	1
## 501	2	4	2	1	1	2	2
## 502	4	4	2	2	2	2	4
## 503	2	5	3	4	3	3	4
## 504	4	4	1	1	1	1	1
## 505	5	1	1	1	5	2	1
## 506	3	5	3	4	3	3	2
## 507	2	2	3	3	5	1	1
## 508	2	2	1	1	2	5	4
## 509	3	5	2	3	1	3	3
## 510	4	1	1	1	4	3	3
## 511	4	4	3	2	4	4	4
## 512	3	3	1	1	4	4	4
## 513	1	1	1	1	1	1	2

## 514	3	4	5	5	3	2	1
## 515	3	5	1	1	1	2	1
## 516	4	5	5	3	1	2	3
## 517	5	4	4	3	5	3	2
## 518	4	4	3	3	4	3	1
## 519	5	4	1	2	4	3	3
## 520	1	2	2	1	4	4	2
## 521	4	2	1	1	4	4	2
## 522	5	3	2	2	3	3	4
## 523	4	3	1	2	3	3	3
## 524	1	3	1	1	2	3	3
## 525	2	5	5	5	2	5	2
## 526	3	5	1	3	3	3	3
## 527	4	4	4	4	5	5	3
## 528	4	4	1	5	2	4	4
## 529	5	5	1	2	5	1	3
## 530	3	5	3	2	1	1	2
## 531	5	2	1	1	1	1	1
## 532	2	5	4	3	1	2	3
## 533	4	4	2	1	2	4	5
## 534	3	5	2	3	2	2	3
## 535	4	3	1	1	4	4	4
## 536	5	5	3	4	4	3	4
## 537	4	2	2	1	5	3	1
## 538	3	4	1	3	3	3	1
## 539	4	4	4	4	4	2	1
## 540	4	5	4	1	1	1	1
## 541	5	5	1	2	4	4	2
## 542	3	2	2	2	4	3	2
## 543	4	4	3	5	5	5	4
## 544	4	4	4	3	3	2	5
## 545	2	5	4	3	2	2	2
## 546	3	3	3	3	3	3	3
## 547	4	5	3	3	2	5	5
## 548	1	4	5	2	2	2	1
## 549	2	5	1	2	1	2	1
## 550	5	3	1	1	5	3	3
## 551	3	5	2	2	1	3	3
## 552	4	2	1	1	1	1	1
## 553	2	4	2	1	1	4	5
## 554	3	2	1	1	3	1	1
## 555	3	3	2	2	3	1	2
## 556	5	1	1	2	4	5	3
## 557	4	1	1	1	4	1	1
## 558	4	4	2	2	2	4	4
## 559	4	2	1	1	1	2	2
## 560	2	4	2	1	5	3	1
## 561	4	3	4	4	4	4	3
## 562	4	4	1	3	5	3	4
## 563	4	3	3	3	5	1	2

## 564	4	5	2	3	5	3	1
## 565	1	5	1	5	3	3	1
## 566	4	2	1	2	2	2	2
## 567	2	2	1	1	4	3	1
## 568	3	3	2	2	3	4	2
## 569	5	3	1	1	3	1	1
## 570	3	3	2	2	2	3	1
## 571	3	3	1	2	2	1	1
## 572	4	1	3	2	5	3	2
## 573	3	3	3	1	2	2	1
## 574	2	4	3	3	3	1	1
## 575	3	3	1	1	3	2	1
## 576	2	4	2	3	2	2	3
## 577	3	3	1	2	5	5	2
## 578	3	3	1	1	1	1	1
## 579	5	2	1	1	4	3	2
## 580	5	5	4	3	3	2	5
## 581	1	1	1	1	5	3	2
## 582	3	4	3	4	4	5	3
## 583	2	3	2	1	4	4	4
## 584	5	4	1	1	5	3	4
## 585	5	3	1	1	2	3	3
## 586	3	4	3	1	3	2	4
## 587	2	3	4	2	1	3	2
## 588	2	4	4	5	3	4	1
## 589	2	1	1	1	4	1	1
## 590	1	5	5	5	1	2	1
## 591	3	5	4	3	1	4	4
## 592	4	1	1	1	4	2	4
## 593	4	1	1	1	4	2	2
## 594	2	5	3	2	2	4	3
## 595	3	4	1	4	2	2	4
## 596	1	4	4	5	1	4	1
## 597	4	3	1	1	4	4	2
## 598	5	5	2	3	4	2	2
## 599	3	4	2	4	4	3	3
## 600	5	4	3	3	4	4	2
## 601	4	4	4	3	5	5	2
## 602	2	4	1	2	1	1	4
## 603	5	4	4	2	3	1	4
## 604	4	4	2	2	5	3	4
## 605	4	4	1	5	4	4	2
## 606	3	5	3	4	1	3	3
## 607	5	4	1	2	2	1	2
## 608	4	3	3	3	1	3	3
## 609	5	1	1	4	4	4	4
## 610	3	3	2	2	5	2	3
## 611	4	5	4	2	2	2	4
## 612	5	3	1	1	3	2	1
## 613	3	4	3	3	4	4	3

## 614	3	4	3	1	5	2	4
## 615	4	4	1	1	1	4	5
## 616	4	5	2	3	2	2	5
## 617	3	5	3	2	1	4	3
## 618	3	4	1	1	1	2	2
## 619	5	5	1	1	5	5	5
## 620	3	3	2	2	3	2	3
## 621	4	4	1	3	4	1	1
## 622	1	3	4	1	1	1	1
## 623	5	4	2	4	3	4	4
## 624	1	2	2	3	5	4	3
## 625	5	5	2	1	4	2	2
## 626	5	2	1	3	4	1	2
## 627	3	3	2	1	4	4	4
## 628	2	1	1	1	1	2	3
## 629	3	5	5	5	4	4	3
## 630	4	4	1	1	5	3	2
## 631	5	4	3	2	4	5	4
## 632	4	5	3	2	2	2	3
## 633	4	3	3	2	5	2	2
## 634	4	3	1	1	2	3	3
## 635	4	3	2	2	4	3	4
## 636	4	4	1	1	2	4	4
## 637	4	4	1	4	5	5	3
## 638	5	5	2	5	2	1	2
## 639	5	5	3	5	4	4	3
## 640	1	5	5	3	1	2	5
## 641	5	5	4	5	5	2	1
## 642	4	3	2	2	5	4	3
## 643	3	3	2	2	2	2	1
## 644	4	5	1	1	4	1	3
## 645	5	4	2	2	4	4	2
## 646	3	2	1	1	4	2	3
## 647	4	4	1	1	3	2	2
## 648	5	3	1	1	5	2	4
## 649	4	3	1	1	3	2	2
## 650	3	3	3	3	4	4	4
## 651	4	2	1	1	4	2	1
## 652	3	3	2	2	4	3	3
## 653	5	4	1	1	1	1	1
## 654	3	5	5	2	1	3	4
## 655	5	3	2	1	3	2	2
## 656	3	5	3	4	3	4	2
## 657	2	5	3	3	2	1	4
## 658	5	3	1	2	4	2	1
## 659	2	2	2	1	5	2	3
## 660	4	5	4	4	2	1	3
## 661	4	5	3	4	3	5	4
## 662	3	1	1	1	2	1	1
## 663	4	4	1	1	3	4	1

## 664	4	3	4	5	3	4	3
## 665	1	2	1	1	1	2	3
## 666	2	5	5	5	5	5	3
## 667	2	5	3	2	1	1	1
## 668	1	2	1	3	5	4	4
## 669	2	5	5	1	2	2	4
## 670	3	3	3	4	4	3	3
## 671	3	3	3	1	2	3	3
## 672	3	3	1	1	4	4	4
## 673	4	4	2	2	1	1	3
## 674	5	4	2	1	3	2	4
## 675	3	5	3	3	4	1	1
## 676	5	4	2	1	2	2	2
## 677	1	2	2	1	2	1	2
## 678	4	3	2	3	3	3	2
## 679	2	5	5	4	1	5	3
## 680	1	5	2	5	3	5	4
## 681	5	5	2	3	5	5	2
## 682	3	5	5	4	4	5	4
## 683	4	4	3	4	3	4	3
## 684	5	5	4	3	3	3	3
## 685	5	4	1	2	4	2	2
## 686	4	3	2	3	4	3	4
## 687	4	4	3	3	3	3	3
## 688	3	5	4	4	5	3	3
## 689	4	5	1	5	3	1	1
## 690	4	4	1	2	4	2	2
## 691	2	4	1	3	3	3	3
## 692	3	4	4	2	4	2	4
## 693	4	5	5	4	4	3	4
## 694	4	3	2	1	4	3	3
## 695	3	5	4	2	3	3	5
## 696	5	4	2	2	5	3	4
## 697	5	3	1	1	3	1	3
## 698	4	5	3	5	3	1	1
## 699	5	3	1	1	5	5	3
## 700	5	3	1	2	3	3	2
## 701	1	4	2	1	4	2	1
## 702	2	2	1	1	2	2	3
## 703	4	5	5	2	1	1	2
## 704	3	4	4	4	3	5	3
## 705	5	5	1	2	4	5	2
## 706	3	5	3	4	3	5	4
## 707	5	4	2	1	4	3	2
## 708	3	4	5	2	2	2	2
## 709	5	3	1	1	5	4	1
## 710	3	5	5	3	4	3	4
## 711	5	4	1	2	4	5	3
## 712	4	4	2	3	2	4	2
## 713	4	3	1	1	1	1	3

## 714	3	4	1	5	4	5	5
## 715	3	5	1	1	4	5	1
## 716	2	5	5	4	1	4	3
## 717	2	3	2	1	4	5	3
## 718	4	4	2	1	1	1	3
## 719	5	5	4	5	2	3	5
## 720	5	3	3	2	2	3	2
## 721	3	2	4	2	4	4	5
## 722	4	4	1	1	1	1	3
## 723	5	5	2	2	4	3	5
## 724	5	4	1	1	2	1	4
## 725	5	3	2	2	3	3	3
## 726	4	2	1	1	4	1	4
## 727	5	2	1	1	5	5	3
## 728	5	5	3	3	2	2	3
## 729	5	2	1	1	5	2	2
## 730	4	5	4	3	4	4	3
## 731	1	5	5	5	3	3	4
## 732	4	4	1	2	4	3	4
## 733	3	3	2	2	4	3	4
## 734	3	4	2	1	1	4	4
## 735	3	2	2	1	1	2	3
## 736	1	1	1	1	1	1	1
## 737	4	5	4	3	2	2	4
## 738	3	4	2	1	1	1	4
## 739	3	5	4	2	5	1	1
## 740	4	5	5	3	1	2	2
## 741	4	4	2	1	5	2	3
## 742	3	3	1	1	1	2	5
## 743	2	4	2	1	3	4	2
## 744	2	4	4	4	3	3	3
## 745	2	5	4	5	1	3	3
## 746	3	4	2	2	1	3	2
## 747	4	5	2	3	1	2	3
## 748	4	2	4	3	5	4	5
## 749	3	4	4	5	3	3	3
## 750	1	5	3	3	1	1	3
## 751	3	3	1	1	5	1	5
## 752	5	5	3	4	1	2	3
## 753	5	3	1	3	4	2	4
## 754	3	4	2	2	1	3	2
## 755	4	3	2	3	4	3	3
## 756	3	5	5	4	1	4	4
## 757	4	5	5	5	2	5	3
## 758	2	3	1	2	5	5	5
## 759	3	1	1	1	3	1	1
## 760	5	4	3	3	3	3	4
## 761	5	5	4	4	2	3	2
## 762	4	1	1	2	5	5	1
## 763	3	3	1	3	4	5	1

## 764	3	5	3	5	1	1	3
## 765	5	3	1	2	2	2	3
## 766	4	5	5	5	2	2	3
## 767	4	4	5	4	4	4	4
## 768	2	2	5	2	2	2	3
## 769	4	3	2	2	5	3	3
## 770	3	3	3	3	3	3	3
## 771	1	1	1	1	1	1	1
## 772	3	5	5	4	2	3	2
## 773	4	2	1	1	4	1	1
## 774	3	5	5	3	4	3	5
## 775	2	2	1	1	2	2	3
## 776	3	4	1	2	4	2	2
## 777	4	5	1	1	3	1	3
## 778	5	3	1	1	5	3	3
## 779	5	2	1	1	3	2	1
## 780	3	3	2	2	4	2	5
## 781	4	4	1	2	3	3	3
## 782	3	3	1	1	1	1	4
## 783	3	5	5	5	2	5	5
## 784	4	5	4	1	2	3	3
## 785	4	3	1	1	3	3	5
## 786	5	2	3	3	4	3	3
## 787	4	5	4	1	2	2	5
## 788	5	2	2	1	5	3	2
## 789	4	3	2	3	4	4	2
## 790	5	4	1	2	4	1	1
## 791	2	5	5	4	2	1	1
## 792	3	2	1	1	4	3	5
## 793	3	4	3	2	4	3	3
## 794	3	2	4	2	5	3	4
## 795	5	2	1	1	5	1	1
## 796	1	5	1	5	1	5	1
## 797	5	1	4	3	4	4	2
## 798	2	2	1	1	5	2	2
## 799	4	5	3	3	3	3	2
## 800	2	4	5	4	1	1	2
## 801	4	3	1	4	4	1	1
## 802	4	5	3	2	1	1	1
## 803	5	4	4	3	5	3	1
## 804	3	5	4	5	1	1	2
## 805	5	5	3	4	4	4	4
## 806	5	5	5	5	3	4	2
## 807	1	1	1	1	1	1	1
## 808	3	2	2	2	1	1	1
## 809	5	5	3	4	3	2	1
## 810	2	2	2	1	4	1	1
## 811	1	5	5	3	1	3	4
## 812	3	5	4	4	3	2	3
## 813	1	1	1	1	2	1	1

## 814	2	2	3	1	2	1	1
## 815	4	3	2	3	5	4	3
## 816	2	5	5	3	5	4	4
## 817	4	5	5	5	4	4	5
## 818	5	5	2	2	5	4	4
## 819	4	4	4	3	2	1	1
## 820	4	2	1	2	3	2	1
## 821	3	5	2	2	4	4	4
## 822	4	5	5	5	1	3	4
## 823	5	4	1	3	5	4	3
## 824	3	2	1	1	5	2	2
## 825	3	5	3	2	1	3	2
## 826	2	5	4	2	1	2	2
## 827	4	5	3	3	3	3	5
## 828	4	5	3	3	2	4	3
## 829	4	5	3	4	5	2	1
## 830	3	5	5	4	3	2	4
## 831	4	3	1	1	5	4	4
## 832	5	4	3	4	5	4	4
## 833	2	5	3	4	1	4	4
## 834	3	4	1	1	1	1	5
## 835	3	5	4	2	2	2	2
## 836	5	4	1	1	1	4	3
## 837	4	5	5	5	4	3	5
## 838	2	5	5	4	2	4	5
## 839	5	4	1	1	4	5	3
## 840	4	3	1	2	3	3	3
## 841	5	5	1	1	4	3	3
## 842	4	4	3	4	5	2	2
## 843	4	5	1	4	1	3	2
## 844	4	4	2	2	5	3	2
## 845	2	3	2	3	2	3	5
## 846	5	1	1	1	4	2	2
## 847	4	2	1	1	4	2	4
## 848	5	5	2	2	1	4	4
## 849	3	5	3	4	1	4	2
## 850	2	2	1	1	1	2	4
## 851	4	2	1	1	4	4	3
## 852	2	2	1	2	5	3	2
## 853	2	2	1	1	5	3	2
## 854	3	3	1	1	2	3	2
## 855	3	3	1	1	5	3	3
## 856	5	4	3	4	5	4	2
## 857	4	5	3	3	3	3	5
## 858	4	3	1	2	2	3	3
## 859	2	3	3	1	1	5	5
## 860	4	3	2	2	5	3	3
## 861	3	4	4	3	4	3	3
## 862	3	5	1	2	1	3	3
## 863	5	4	3	1	4	3	4

## 864	3	2	1	1	2	2	3
## 865	3	5	4	4	4	3	3
## 866	3	4	2	3	4	2	1
## 867	2	5	4	4	3	4	2
## 868	4	3	1	1	1	3	1
## 869	4	4	3	2	5	2	2
## 870	4	5	3	3	2	1	3
## 871	5	3	3	2	3	1	1
## 872	3	5	4	2	2	3	4
## 873	3	5	3	2	2	2	3
## 874	3	4	2	1	3	3	3
## 875	3	2	1	2	3	2	2
## 876	3	2	1	1	4	1	1
## 877	4	1	1	1	5	5	4
## 878	1	5	3	4	3	3	4
## 879	4	4	2	2	5	4	4
## 880	2	4	5	3	2	1	2
## 881	3	2	1	3	4	2	2
## 882	4	5	2	2	1	1	4
## 883	2	4	3	5	3	2	2
## 884	4	3	1	1	2	3	4
## 885	4	5	3	4	3	4	4
## 886	4	4	4	1	5	4	2
## 887	3	4	5	4	1	1	1
## 888	2	5	3	2	4	3	2
## 889	4	4	3	2	2	1	2
## 890	3	4	3	2	2	3	3
## 891	4	3	1	1	4	2	2
## 892	4	4	2	2	2	4	1
## 893	3	5	3	2	3	2	2
## 894	2	4	3	2	4	3	2
## 895	3	5	3	2	2	4	3
## 896	3	3	1	1	4	3	3
## 897	2	5	3	3	1	2	4
## 898	4	3	1	2	3	2	3
## 899	2	5	2	3	1	3	5
## 900	3	3	2	2	5	3	3
## 901	3	3	1	1	2	4	4
## 902	3	3	1	2	1	2	3
## 903	2	3	2	3	5	4	3
## 904	1	5	5	4	2	3	5
## 905	5	3	1	1	2	2	2
## 906	4	4	1	3	5	3	3
## 907	2	1	1	1	2	3	4
## 908	5	3	2	3	3	3	2
## 909	4	4	3	3	2	2	3
## 910	4	3	2	3	4	4	2
## 911	4	5	1	1	4	4	5
## 912	3	5	5	4	1	1	3
## 913	4	3	2	4	3	3	2

## 914	3	4	1	3	1	2	4
## 915	3	5	4	4	2	3	4
## 916	4	4	3	1	4	2	2
## 917	3	5	4	4	1	3	3
## 918	2	5	4	4	2	2	2
## 919	4	5	5	5	3	4	2
## 920	3	4	4	3	3	3	3
## 921	3	4	3	3	2	3	3
## 922	4	3	2	3	4	2	3
## 923	5	3	1	1	4	3	2
## 924	4	4	2	5	3	1	4
## 925	3	2	1	1	2	2	1
## 926	3	2	1	1	3	5	4
## 927	2	4	3	3	1	2	2
## 928	5	3	1	2	4	4	1
## 929	4	3	2	2	4	4	2
## 930	4	2	3	4	2	5	2
## 931	3	2	2	3	5	3	1
## 932	4	3	4	3	2	3	2
## 933	5	3	2	1	4	3	2
## 934	3	4	2	3	1	4	5
## 935	3	4	5	4	2	2	2
## 936	5	2	1	1	2	1	1
## 937	4	3	4	4	2	3	4
## 938	5	5	4	5	4	5	5
## 939	4	5	2	4	4	1	3
## 940	4	4	1	2	1	2	3
## 941	3	3	1	1	4	4	5
## 942	4	4	3	3	4	5	4
## 943	4	2	1	2	1	3	5
## 944	3	4	1	4	4	4	4
## 945	5	4	1	1	2	1	3
## 946	4	4	4	4	5	4	2
## 947	3	5	5	5	2	1	4
## 948	3	3	3	2	4	3	2
## 949	4	3	1	1	2	3	2
## 950	3	4	3	3	2	3	3
## 951	4	5	5	5	4	4	3
## 952	4	3	2	2	4	5	3
## 953	4	5	3	3	1	3	3
## 954	5	4	1	4	4	4	4
## 955	3	3	1	2	4	4	3
## 956	2	5	5	5	1	3	1
## 957	4	4	3	3	3	3	4
## 958	2	2	1	1	5	1	2
## 959	4	1	1	1	3	2	2
## 960	4	3	2	4	2	5	4
## 961	3	5	5	5	3	3	5
## 962	5	3	1	1	5	4	3
## 963	2	1	1	1	1	1	4

## 964	5	4	1	1	3	1	4
## 965	3	5	5	5	3	4	3
## 966	5	5	2	4	1	3	2
## 967	1	1	1	1	1	3	4
## 968	2	5	5	5	1	4	4
## 969	4	3	2	1	5	3	3
## 970	4	5	4	3	2	2	3
## 971	3	4	2	1	4	2	5
## 972	2	5	4	4	1	4	3
## 973	3	5	2	4	1	3	3
## 974	2	5	5	5	1	4	5
## 975	2	5	5	5	1	5	3
## 976	5	5	5	5	5	5	5
## 977	5	5	2	2	3	4	4
## 978	4	4	3	2	4	2	1
## 979	4	5	5	3	2	3	5
## 980	5	5	1	1	3	2	4
## 981	4	4	4	2	1	3	5
## 982	3	4	1	1	1	2	3
## 983	2	4	3	2	2	4	3
## 984	5	3	1	1	4	4	2
## 985	3	4	4	3	1	2	1
## 986	4	5	3	3	1	4	2
## 987	2	4	2	4	3	3	4
## 988	1	5	3	2	1	3	3
## 989	2	5	2	4	3	5	5
## 990	5	5	5	1	5	2	3
## 991	3	4	4	1	1	1	2
## 992	1	5	5	4	5	2	1
## 993	3	4	4	3	2	3	2
## 994	4	4	1	1	4	1	1
## 995	3	5	3	4	2	4	3
## 996	1	4	4	3	3	2	1
## 997	1	4	3	1	4	4	2
## 998	3	4	2	4	2	4	1
## 999	3	5	5	4	3	2	1
## 1000	4	4	3	1	5	5	5
## 1001	4	3	1	1	5	3	2
## 1002	4	3	2	4	4	3	1
## 1003	2	5	5	3	1	4	2
## 1004	4	5	2	3	2	4	4
## 1005	3	3	4	3	5	4	2
## 1006	4	4	3	2	4	1	5
## 1007	4	1	1	4	1	1	2
## 1008	3	4	1	2	3	3	2
## 1009	3	4	1	1	2	2	3
## 1010	4	1	1	2	3	1	1
##	Rock.n.roll Alternative Latino Techno..Trance Opera						
## 1		3	1	1	1	1	
## 2		4	4	2	1	1	

## 3	5	5	5	1	3
## 4	2	5	1	2	1
## 5	1	2	4	2	2
## 6	4	5	3	1	3
## 7	2	3	3	5	2
## 8	3	1	2	3	2
## 9	2	1	1	1	1
## 10	4	4	5	1	2
## 11	3	3	3	4	2
## 12	2	5	2	1	2
## 13	4	3	2	1	2
## 14	2	1	3	1	1
## 15	4	4	1	1	1
## 16	3	3	2	1	2
## 17	3	1	1	4	1
## 18	3	1	2	1	3
## 19	4	4	4	4	3
## 20	4	3	4	3	2
## 21	4	5	3	3	4
## 22	4	3	2	1	2
## 23	3	2	3	3	2
## 24	3	1	4	1	1
## 25	2	3	2	3	4
## 26	1	1	4	2	1
## 27	5	3	5	2	2
## 28	3	4	3	4	2
## 29	4	3	2	3	1
## 30	4	3	4	3	2
## 31	3	3	3	3	3
## 32	1	1	5	1	2
## 33	4	4	2	3	1
## 34	4	3	2	1	5
## 35	4	4	2	1	1
## 36	3	3	5	1	1
## 37	1	1	1	1	4
## 38	2	1	1	1	1
## 39	2	1	3	4	4
## 40	5	2	1	2	2
## 41	1	1	2	3	1
## 42	5	5	5	5	1
## 43	3	4	3	3	1
## 44	2	4	3	3	1
## 45	3	4	5	4	3
## 46	5	1	4	3	4
## 47	5	4	5	2	2
## 48	3	4	3	2	3
## 49	2	2	4	2	1
## 50	4	2	1	2	1
## 51	4	4	5	1	2
## 52	4	3	5	3	2

## 53	5	2	5	2	5
## 54	3	3	5	2	5
## 55	4	3	5	4	5
## 56	4	4	4	5	3
## 57	5	5	1	1	4
## 58	5	5	1	1	2
## 59	2	2	3	3	1
## 60	5	5	1	4	3
## 61	4	4	2	1	3
## 62	3	3	4	4	3
## 63	5	5	4	5	5
## 64	3	1	3	5	1
## 65	2	1	3	2	2
## 66	2	1	2	4	2
## 67	2	2	4	5	1
## 68	4	1	5	1	1
## 69	4	3	2	4	2
## 70	2	1	4	1	2
## 71	1	1	2	3	1
## 72	2	3	1	3	1
## 73	3	3	5	1	1
## 74	2	2	4	3	1
## 75	1	1	1	2	4
## 76	5	4	4	1	2
## 77	2	1	1	1	1
## 78	2	2	5	5	1
## 79	5	3	5	4	2
## 80	3	3	4	4	4
## 81	4	2	5	3	2
## 82	4	3	5	3	3
## 83	2	5	1	1	3
## 84	3	1	5	5	3
## 85	5	4	3	1	5
## 86	3	3	2	4	3
## 87	3	3	2	3	3
## 88	4	4	5	2	1
## 89	5	4	5	5	1
## 90	4	4	2	1	3
## 91	2	3	1	1	1
## 92	3	1	1	1	1
## 93	4	3	3	1	4
## 94	4	1	1	1	4
## 95	3	3	1	4	1
## 96	4	2	3	2	2
## 97	1	4	1	4	1
## 98	1	1	1	2	1
## 99	2	5	5	3	1
## 100	2	1	4	1	1
## 101	3	2	3	2	2
## 102	3	3	1	1	2

## 103	5	5	2	1	4
## 104	3	2	5	4	4
## 105	4	4	3	3	2
## 106	1	1	1	1	2
## 107	5	3	5	3	4
## 108	2	4	2	1	1
## 109	2	3	2	2	3
## 110	3	1	3	1	4
## 111	4	4	4	4	1
## 112	4	5	2	4	4
## 113	2	3	5	4	1
## 114	2	2	2	5	1
## 115	3	3	1	1	4
## 116	2	3	5	3	2
## 117	4	5	2	1	1
## 118	2	1	4	1	1
## 119	4	4	2	1	1
## 120	2	1	2	3	2
## 121	5	3	4	3	2
## 122	4	1	1	3	1
## 123	4	5	3	1	3
## 124	5	3	3	1	3
## 125	5	2	3	1	3
## 126	3	4	3	2	2
## 127	1	2	1	1	1
## 128	4	4	2	3	3
## 129	5	5	5	5	2
## 130	3	4	3	1	1
## 131	3	1	3	3	2
## 132	1	1	1	3	1
## 133	2	2	2	1	1
## 134	1	1	3	1	3
## 135	4	4	4	4	2
## 136	4	5	1	1	3
## 137	1	1	1	1	3
## 138	4	3	4	2	2
## 139	4	2	3	1	2
## 140	4	1	2	3	2
## 141	3	2	4	3	2
## 142	1	5	5	2	1
## 143	1	2	3	2	1
## 144	1	3	3	3	1
## 145	4	3	4	4	2
## 146	1	3	2	3	2
## 147	1	1	2	5	1
## 148	2	4	2	1	1
## 149	4	3	3	3	2
## 150	1	1	1	1	2
## 151	4	3	1	1	4
## 152	4	4	2	2	1

## 153	4	3	2	2	2
## 154	2	1	3	3	3
## 155	3	3	2	1	3
## 156	3	4	2	2	3
## 157	3	3	2	1	2
## 158	1	2	1	1	2
## 159	3	3	2	5	1
## 160	3	4	3	3	3
## 161	4	5	1	3	1
## 162	3	2	2	3	2
## 163	2	1	5	1	3
## 164	1	3	1	5	1
## 165	4	5	2	3	2
## 166	2	1	5	2	1
## 167	1	2	2	1	5
## 168	3	3	3	3	2
## 169	4	2	1	1	1
## 170	3	4	1	1	1
## 171	4	5	4	1	1
## 172	3	2	1	1	1
## 173	4	4	2	1	3
## 174	3	2	1	5	4
## 175	1	1	3	1	5
## 176	4	2	4	2	1
## 177	5	4	1	2	1
## 178	3	5	2	1	3
## 179	4	3	2	1	4
## 180	1	1	1	4	5
## 181	4	4	1	1	1
## 182	3	3	5	3	3
## 183	2	3	4	1	5
## 184	3	4	3	4	3
## 185	5	5	1	1	2
## 186	4	1	5	3	1
## 187	2	2	3	2	4
## 188	1	5	1	5	1
## 189	2	2	2	1	4
## 190	3	2	1	1	4
## 191	3	3	2	2	3
## 192	3	4	3	1	4
## 193	3	2	3	4	1
## 194	5	5	1	1	3
## 195	5	5	1	1	1
## 196	3	3	2	1	2
## 197	3	3	3	3	3
## 198	1	1	3	1	1
## 199	5	2	2	2	2
## 200	1	1	2	4	1
## 201	4	2	2	2	1
## 202	5	5	3	2	1

## 203	1	1	1	4	1
## 204	2	2	4	3	3
## 205	5	4	3	1	2
## 206	5	3	4	1	5
## 207	4	3	1	1	5
## 208	4	2	4	1	4
## 209	5	3	3	1	2
## 210	4	2	4	2	2
## 211	5	3	4	5	1
## 212	5	2	5	4	1
## 213	5	5	1	2	5
## 214	2	4	3	5	2
## 215	5	4	3	1	2
## 216	1	1	5	1	1
## 217	3	1	1	2	1
## 218	4	4	3	2	3
## 219	2	2	1	3	2
## 220	1	1	2	5	1
## 221	2	5	3	1	3
## 222	4	4	3	4	3
## 223	3	3	3	1	1
## 224	2	2	5	2	2
## 225	3	5	2	1	2
## 226	5	5	3	2	2
## 227	5	1	4	3	1
## 228	3	4	4	1	3
## 229	4	4	3	2	3
## 230	3	2	2	3	3
## 231	3	3	5	2	3
## 232	5	1	5	1	1
## 233	3	1	4	3	1
## 234	4	3	4	4	1
## 235	3	4	5	1	1
## 236	4	2	4	1	2
## 237	4	2	4	1	1
## 238	2	2	5	3	2
## 239	3	2	4	1	1
## 240	4	4	2	2	4
## 241	2	2	1	2	1
## 242	3	3	2	1	4
## 243	2	1	4	1	3
## 244	5	4	3	1	2
## 245	4	3	5	2	1
## 246	5	5	3	1	1
## 247	4	1	5	1	4
## 248	3	5	4	2	1
## 249	2	2	2	3	3
## 250	4	4	5	2	4
## 251	2	2	4	2	1
## 252	3	2	4	5	2

## 253	2	5	4	2	4
## 254	1	1	1	1	1
## 255	5	2	5	3	2
## 256	4	4	5	1	4
## 257	2	1	5	1	1
## 258	3	3	2	5	2
## 259	3	5	2	1	1
## 260	5	2	5	1	5
## 261	3	3	3	3	3
## 262	1	1	3	1	1
## 263	3	5	2	3	4
## 264	4	3	5	3	2
## 265	3	3	3	3	3
## 266	2	1	1	1	1
## 267	3	1	4	1	2
## 268	3	2	3	2	3
## 269	3	2	5	1	2
## 270	3	2	4	2	4
## 271	5	5	3	2	1
## 272	5	4	2	1	1
## 273	3	5	2	1	5
## 274	4	4	4	4	3
## 275	4	1	3	2	1
## 276	3	3	5	4	3
## 277	4	3	3	1	1
## 278	5	1	2	2	2
## 279	3	5	4	3	3
## 280	1	1	2	2	1
## 281	2	4	5	5	2
## 282	5	2	5	3	2
## 283	2	2	3	1	1
## 284	3	2	3	3	2
## 285	1	1	1	1	1
## 286	1	1	1	1	4
## 287	3	4	4	1	1
## 288	3	4	2	3	3
## 289	3	1	4	5	1
## 290	4	1	2	2	3
## 291	4	3	4	1	1
## 292	4	3	3	2	3
## 293	3	3	5	2	1
## 294	3	5	2	1	2
## 295	3	4	4	1	2
## 296	5	5	3	1	4
## 297	3	3	1	5	1
## 298	2	4	2	4	2
## 299	5	1	5	2	1
## 300	2	2	3	1	2
## 301	3	5	1	1	5
## 302	1	2	1	1	4

## 303	4	1	5	1	2
## 304	3	1	5	1	1
## 305	2	1	2	1	3
## 306	4	5	1	1	2
## 307	5	5	5	4	1
## 308	5	3	3	1	1
## 309	1	2	3	4	1
## 310	4	2	2	2	1
## 311	1	1	3	5	3
## 312	3	3	5	2	5
## 313	3	2	1	2	1
## 314	4	2	4	2	2
## 315	5	5	5	5	4
## 316	1	2	2	1	2
## 317	1	2	2	4	2
## 318	3	3	4	4	1
## 319	4	3	3	2	1
## 320	3	4	4	3	2
## 321	2	5	2	4	1
## 322	5	3	4	3	1
## 323	5	5	3	1	2
## 324	3	1	3	1	5
## 325	3	3	3	2	2
## 326	4	3	3	4	2
## 327	3	3	3	3	1
## 328	4	2	3	1	2
## 329	2	5	3	1	1
## 330	3	2	2	3	1
## 331	3	4	1	3	2
## 332	5	1	2	4	1
## 333	1	1	5	1	1
## 334	3	2	3	2	2
## 335	1	4	4	1	1
## 336	3	2	2	4	2
## 337	2	3	1	4	2
## 338	1	2	1	5	3
## 339	2	1	1	2	2
## 340	5	5	2	1	3
## 341	2	4	2	1	3
## 342	1	1	1	5	1
## 343	3	3	4	3	2
## 344	5	2	5	1	2
## 345	4	3	3	1	1
## 346	2	2	2	3	1
## 347	3	1	2	4	1
## 348	2	1	1	2	1
## 349	5	3	3	2	5
## 350	3	1	2	4	1
## 351	1	3	1	2	1
## 352	4	5	3	1	3

## 353	5	1	2	1	2
## 354	3	5	2	1	3
## 355	2	3	2	3	4
## 356	2	1	3	2	1
## 357	4	2	3	2	3
## 358	1	1	4	3	2
## 359	4	1	2	2	3
## 360	3	1	3	2	3
## 361	4	3	3	1	2
## 362	1	1	1	1	1
## 363	4	3	4	2	4
## 364	4	4	4	1	5
## 365	4	3	1	2	1
## 366	5	5	1	2	4
## 367	1	1	1	3	1
## 368	5	5	1	3	1
## 369	3	1	5	2	3
## 370	2	3	1	5	1
## 371	3	2	4	1	2
## 372	5	3	5	2	5
## 373	3	4	2	4	2
## 374	1	1	1	1	1
## 375	2	1	2	3	1
## 376	1	1	3	3	1
## 377	1	1	2	1	1
## 378	4	5	3	1	1
## 379	2	2	3	3	1
## 380	3	2	4	2	4
## 381	4	2	5	5	1
## 382	3	3	2	1	4
## 383	2	2	5	4	1
## 384	3	5	1	2	3
## 385	4	5	2	1	1
## 386	5	4	5	3	3
## 387	3	3	2	4	1
## 388	3	2	5	2	1
## 389	4	3	5	3	3
## 390	3	2	5	1	2
## 391	3	4	3	3	3
## 392	3	2	2	1	2
## 393	2	2	5	2	1
## 394	2	2	1	1	1
## 395	3	2	2	1	1
## 396	4	5	1	5	1
## 397	3	1	2	2	5
## 398	2	1	4	1	1
## 399	4	3	4	5	2
## 400	3	4	2	1	5
## 401	2	2	1	4	3
## 402	2	2	3	1	2

## 403	1	2	1	3	3
## 404	4	3	3	1	3
## 405	5	5	1	5	3
## 406	3	3	3	2	3
## 407	4	1	5	4	4
## 408	3	2	2	2	2
## 409	5	3	5	1	5
## 410	4	3	2	4	1
## 411	5	3	1	1	1
## 412	3	1	5	2	2
## 413	1	1	1	5	1
## 414	4	2	2	3	2
## 415	4	4	2	2	2
## 416	5	3	3	3	1
## 417	2	1	3	4	1
## 418	4	4	1	1	2
## 419	2	2	4	1	2
## 420	5	5	3	3	5
## 421	1	1	1	1	3
## 422	3	2	3	2	3
## 423	1	1	5	5	3
## 424	3	3	3	2	3
## 425	1	1	2	5	1
## 426	4	5	1	2	3
## 427	4	4	2	1	1
## 428	3	5	3	2	4
## 429	2	1	2	3	3
## 430	3	5	1	1	2
## 431	3	3	4	3	2
## 432	2	2	4	5	4
## 433	4	5	3	1	1
## 434	3	5	3	2	2
## 435	2	1	5	4	1
## 436	5	3	1	1	1
## 437	3	2	4	3	2
## 438	3	1	1	4	1
## 439	2	1	2	1	2
## 440	3	3	2	4	1
## 441	4	3	3	4	1
## 442	1	1	5	1	1
## 443	4	2	2	2	1
## 444	3	2	3	3	3
## 445	5	5	2	4	2
## 446	2	2	5	1	1
## 447	2	1	1	4	1
## 448	1	1	1	1	2
## 449	4	3	2	3	2
## 450	5	2	5	1	1
## 451	1	1	3	1	4
## 452	2	2	3	3	1

## 453	4	3	1	3	1
## 454	5	2	5	1	1
## 455	4	4	2	1	1
## 456	3	2	2	4	2
## 457	2	3	1	1	1
## 458	3	3	2	4	1
## 459	5	5	5	5	5
## 460	3	5	2	3	3
## 461	1	3	1	1	1
## 462	3	3	4	2	4
## 463	3	4	2	3	1
## 464	1	5	5	1	1
## 465	4	2	5	3	2
## 466	2	3	5	2	2
## 467	3	1	3	5	1
## 468	2	2	2	2	1
## 469	5	2	2	2	2
## 470	5	4	1	4	1
## 471	3	1	3	1	3
## 472	4	5	2	2	1
## 473	2	1	1	1	2
## 474	1	4	1	1	1
## 475	1	3	1	5	1
## 476	5	3	4	1	2
## 477	5	5	5	1	2
## 478	5	5	2	1	1
## 479	4	4	2	3	2
## 480	4	1	4	2	2
## 481	5	4	5	4	4
## 482	4	4	1	5	4
## 483	1	1	1	1	1
## 484	3	1	5	1	1
## 485	2	2	2	2	2
## 486	4	4	4	1	1
## 487	3	3	3	2	1
## 488	2	3	1	1	1
## 489	5	4	3	1	4
## 490	5	5	1	1	1
## 491	2	1	5	4	2
## 492	3	1	5	1	2
## 493	4	5	3	2	2
## 494	3	3	4	2	1
## 495	4	5	2	1	2
## 496	5	5	2	2	1
## 497	4	3	4	2	4
## 498	5	1	4	1	5
## 499	3	5	3	1	1
## 500	3	3	1	3	2
## 501	4	5	4	4	4
## 502	4	2	5	2	2

## 503	5	3	1	3	3
## 504	2	1	4	5	4
## 505	2	2	2	1	1
## 506	4	4	2	1	1
## 507	1	2	1	2	1
## 508	4	4	4	1	2
## 509	5	5	1	1	1
## 510	1	2	3	4	1
## 511	3	3	3	2	4
## 512	3	3	2	1	1
## 513	1	3	4	4	2
## 514	3	3	3	3	1
## 515	5	3	2	1	2
## 516	3	4	2	1	2
## 517	3	3	2	4	3
## 518	1	3	4	4	4
## 519	2	2	5	4	4
## 520	2	2	2	4	1
## 521	2	2	4	2	1
## 522	4	2	5	3	3
## 523	3	3	4	4	3
## 524	4	2	2	3	1
## 525	3	5	2	1	3
## 526	3	3	3	1	3
## 527	4	3	3	1	1
## 528	4	4	4	2	1
## 529	5	1	1	3	2
## 530	3	4	3	1	2
## 531	1	4	3	1	1
## 532	5	5	2	1	1
## 533	3	3	4	4	2
## 534	5	5	3	3	2
## 535	3	2	4	2	2
## 536	5	1	4	4	1
## 537	1	1	3	5	1
## 538	3	5	1	2	3
## 539	3	3	3	3	2
## 540	3	4	1	1	4
## 541	5	3	3	3	5
## 542	2	2	3	1	1
## 543	3	5	4	2	2
## 544	4	4	4	4	2
## 545	4	5	3	1	3
## 546	3	3	1	3	1
## 547	5	4	5	1	5
## 548	4	3	1	1	5
## 549	4	4	1	1	1
## 550	1	2	4	4	2
## 551	5	4	2	1	2
## 552	1	1	2	1	2

## 553	3	5	5	2	2
## 554	1	3	2	3	2
## 555	3	2	3	3	1
## 556	1	2	4	2	1
## 557	2	1	1	2	1
## 558	4	3	3	1	2
## 559	3	2	5	2	2
## 560	2	1	1	1	1
## 561	4	3	4	2	3
## 562	4	2	4	4	3
## 563	2	2	1	1	1
## 564	3	3	1	2	1
## 565	2	1	1	2	1
## 566	2	2	2	3	3
## 567	2	1	3	2	1
## 568	3	2	2	2	1
## 569	1	3	3	3	1
## 570	2	3	3	2	1
## 571	3	2	2	1	1
## 572	1	1	1	4	1
## 573	2	1	1	1	2
## 574	3	4	1	4	1
## 575	1	2	2	5	1
## 576	3	4	5	2	2
## 577	2	2	2	3	2
## 578	1	1	2	2	1
## 579	4	3	4	1	2
## 580	5	3	2	5	1
## 581	2	2	1	3	1
## 582	2	5	2	5	1
## 583	3	3	3	4	2
## 584	4	2	3	1	1
## 585	3	1	4	4	2
## 586	4	3	4	4	2
## 587	1	5	3	5	1
## 588	3	2	1	2	1
## 589	2	1	5	1	2
## 590	5	3	2	2	2
## 591	5	3	4	1	2
## 592	2	2	5	1	2
## 593	2	2	5	4	1
## 594	3	4	4	1	2
## 595	1	5	1	1	3
## 596	2	1	1	1	1
## 597	2	2	2	5	1
## 598	4	3	3	3	2
## 599	3	2	5	3	2
## 600	4	4	2	3	1
## 601	2	4	1	4	1
## 602	5	5	4	1	2

## 603	4	3	3	3	1
## 604	2	4	4	4	2
## 605	2	5	2	1	1
## 606	4	1	1	1	2
## 607	3	2	2	1	2
## 608	4	1	4	1	2
## 609	4	4	4	1	5
## 610	2	3	2	4	3
## 611	5	4	2	3	2
## 612	2	1	1	3	1
## 613	2	3	5	5	3
## 614	3	4	4	3	1
## 615	3	1	2	5	1
## 616	3	5	3	3	2
## 617	5	1	4	4	1
## 618	1	1	5	1	5
## 619	1	3	5	1	5
## 620	3	2	3	2	5
## 621	3	3	2	2	1
## 622	2	5	2	5	1
## 623	5	3	3	4	3
## 624	2	1	1	1	1
## 625	4	1	2	1	1
## 626	4	3	5	2	1
## 627	2	2	3	4	2
## 628	3	4	3	2	1
## 629	3	3	3	2	1
## 630	2	2	5	3	2
## 631	4	2	5	5	1
## 632	2	3	5	3	3
## 633	3	3	2	4	2
## 634	2	1	3	1	1
## 635	3	4	3	2	3
## 636	4	1	4	1	2
## 637	5	5	5	3	4
## 638	2	1	1	2	3
## 639	4	3	3	1	3
## 640	5	5	1	1	1
## 641	1	1	1	1	1
## 642	3	3	3	3	3
## 643	1	3	3	3	5
## 644	4	1	5	2	4
## 645	2	1	3	1	2
## 646	2	4	4	5	3
## 647	3	1	3	2	2
## 648	5	3	5	1	1
## 649	4	1	5	2	2
## 650	4	3	3	2	2
## 651	2	1	2	3	1
## 652	3	3	4	4	3

## 653	2	1	2	1	1
## 654	5	2	4	1	4
## 655	2	2	4	3	2
## 656	3	3	2	4	1
## 657	4	3	1	1	4
## 658	2	2	2	1	1
## 659	2	3	2	4	1
## 660	3	5	2	1	2
## 661	3	3	2	1	2
## 662	1	1	1	2	1
## 663	3	1	1	2	2
## 664	3	4	3	2	2
## 665	4	3	5	1	3
## 666	5	5	3	4	4
## 667	4	5	1	1	1
## 668	1	2	2	1	2
## 669	5	5	4	1	2
## 670	3	4	4	4	2
## 671	2	2	5	2	2
## 672	4	4	4	4	3
## 673	2	3	3	1	5
## 674	4	3	4	1	4
## 675	3	1	3	1	1
## 676	3	1	3	3	2
## 677	1	5	2	2	2
## 678	3	1	4	1	1
## 679	4	4	4	1	5
## 680	5	5	2	3	1
## 681	5	2	5	5	1
## 682	3	4	4	4	4
## 683	4	3	2	5	2
## 684	5	1	5	1	1
## 685	3	2	4	1	1
## 686	4	1	4	3	2
## 687	3	3	3	3	3
## 688	5	3	2	1	1
## 689	2	1	4	1	1
## 690	2	2	4	3	2
## 691	4	4	3	3	2
## 692	5	5	4	2	2
## 693	4	4	2	2	2
## 694	3	3	4	4	1
## 695	5	1	5	4	3
## 696	4	4	4	3	4
## 697	3	1	3	3	1
## 698	2	2	3	1	2
## 699	2	2	5	2	2
## 700	2	1	5	2	1
## 701	2	1	4	1	1
## 702	3	2	3	5	4

## 703	3	3	3	1	4
## 704	3	3	3	1	2
## 705	4	3	5	2	1
## 706	4	5	3	3	2
## 707	1	3	2	3	2
## 708	3	4	2	2	4
## 709	1	4	1	4	1
## 710	4	5	4	2	2
## 711	2	2	2	1	1
## 712	4	1	4	1	1
## 713	2	2	4	1	3
## 714	5	5	4	2	2
## 715	3	3	3	3	1
## 716	3	2	3	1	3
## 717	3	2	2	3	3
## 718	3	3	1	1	1
## 719	3	3	2	2	4
## 720	2	2	2	3	1
## 721	3	5	4	2	4
## 722	3	4	3	1	2
## 723	4	5	5	2	2
## 724	3	2	2	1	2
## 725	4	2	5	2	3
## 726	2	4	3	3	1
## 727	2	1	2	4	1
## 728	3	1	5	5	1
## 729	3	3	2	3	1
## 730	5	4	3	3	3
## 731	2	4	1	1	2
## 732	4	5	3	2	2
## 733	3	2	3	2	2
## 734	4	3	5	1	4
## 735	3	2	4	1	5
## 736	2	1	1	1	3
## 737	5	2	5	2	4
## 738	5	4	4	3	2
## 739	4	1	1	4	2
## 740	5	2	3	3	4
## 741	3	3	3	2	1
## 742	4	4	4	1	5
## 743	3	4	5	5	2
## 744	3	4	2	1	1
## 745	5	5	3	1	3
## 746	3	2	5	5	2
## 747	4	4	4	2	2
## 748	2	5	3	3	5
## 749	3	3	3	3	3
## 750	5	5	1	1	1
## 751	4	5	5	1	4
## 752	3	3	4	2	5

## 753	2	2	5	4	2
## 754	5	5	3	1	2
## 755	3	2	4	3	3
## 756	5	2	3	1	1
## 757	4	4	3	4	2
## 758	3	2	5	5	3
## 759	2	2	1	5	1
## 760	5	4	4	2	5
## 761	4	4	2	3	2
## 762	1	3	1	2	1
## 763	3	5	1	3	1
## 764	3	4	1	3	3
## 765	3	2	4	1	3
## 766	5	4	2	2	1
## 767	5	3	4	4	4
## 768	4	4	3	2	3
## 769	3	3	3	3	1
## 770	3	3	3	3	3
## 771	1	1	1	1	1
## 772	3	2	2	1	4
## 773	4	2	4	1	2
## 774	4	4	4	2	2
## 775	3	2	3	1	4
## 776	3	4	4	5	4
## 777	5	2	5	5	3
## 778	3	3	3	3	2
## 779	2	1	1	1	1
## 780	3	4	2	3	3
## 781	3	2	4	4	2
## 782	4	1	3	2	3
## 783	5	5	4	2	3
## 784	3	2	3	4	3
## 785	2	2	3	4	3
## 786	2	3	3	1	3
## 787	5	4	4	3	2
## 788	3	3	3	3	1
## 789	2	4	3	1	2
## 790	1	3	3	4	4
## 791	5	5	1	4	1
## 792	3	4	3	3	2
## 793	1	1	3	3	1
## 794	3	3	4	4	2
## 795	1	1	1	1	1
## 796	5	1	5	1	5
## 797	4	3	4	2	3
## 798	2	2	1	3	1
## 799	2	3	2	2	2
## 800	4	4	2	2	4
## 801	3	1	1	1	1
## 802	5	3	1	4	1

## 803	3	3	2	4	2
## 804	3	2	1	1	2
## 805	4	2	2	2	2
## 806	5	4	3	3	3
## 807	1	1	1	1	1
## 808	3	1	1	1	4
## 809	2	2	2	3	1
## 810	3	1	1	1	1
## 811	5	4	2	1	5
## 812	4	4	2	1	4
## 813	2	1	1	1	1
## 814	3	1	1	1	1
## 815	2	1	2	5	4
## 816	5	2	4	2	2
## 817	5	5	4	3	2
## 818	5	1	1	1	2
## 819	3	3	1	4	1
## 820	1	2	5	2	1
## 821	4	5	3	1	4
## 822	5	5	2	1	4
## 823	3	3	4	1	2
## 824	1	3	3	3	1
## 825	5	3	2	1	5
## 826	2	4	2	1	2
## 827	5	3	4	1	4
## 828	5	5	2	1	2
## 829	3	3	4	4	1
## 830	4	4	2	1	3
## 831	3	3	5	2	3
## 832	5	3	4	3	4
## 833	5	3	4	1	5
## 834	3	5	2	2	4
## 835	3	2	2	2	3
## 836	3	3	3	1	1
## 837	4	3	1	1	3
## 838	5	4	5	1	3
## 839	4	4	4	2	1
## 840	4	4	4	1	2
## 841	2	2	4	1	2
## 842	2	3	2	5	1
## 843	2	5	2	2	1
## 844	2	1	3	3	2
## 845	4	4	3	4	5
## 846	1	1	3	1	1
## 847	2	2	3	5	3
## 848	5	5	2	1	4
## 849	3	5	1	2	1
## 850	2	1	3	1	5
## 851	3	1	1	1	1
## 852	2	2	2	5	1

## 853	2	2	3	3	1
## 854	2	2	3	1	4
## 855	2	2	2	1	1
## 856	3	2	4	4	2
## 857	3	2	4	3	3
## 858	3	4	2	5	2
## 859	5	3	1	1	1
## 860	3	2	3	4	2
## 861	1	3	2	5	3
## 862	3	4	1	2	1
## 863	2	3	5	4	2
## 864	3	4	1	5	2
## 865	4	4	2	3	3
## 866	2	4	3	2	2
## 867	4	4	1	1	3
## 868	3	3	4	1	1
## 869	3	1	3	2	2
## 870	5	5	2	1	1
## 871	1	2	3	4	1
## 872	5	4	2	3	3
## 873	2	5	1	4	1
## 874	3	3	2	4	3
## 875	2	2	5	3	1
## 876	1	3	1	4	1
## 877	4	1	3	3	1
## 878	5	5	2	1	1
## 879	4	3	2	4	3
## 880	4	4	2	5	2
## 881	2	1	5	4	1
## 882	5	5	2	1	1
## 883	3	2	1	4	1
## 884	3	3	4	3	1
## 885	4	5	1	4	1
## 886	3	1	1	3	1
## 887	3	4	1	2	1
## 888	3	2	1	3	2
## 889	4	2	5	2	2
## 890	5	4	2	2	2
## 891	3	1	1	4	1
## 892	3	2	2	3	1
## 893	3	1	2	1	2
## 894	3	2	2	3	4
## 895	4	2	2	1	1
## 896	2	1	2	3	2
## 897	4	4	3	1	2
## 898	2	4	3	2	3
## 899	5	5	3	1	1
## 900	1	3	1	1	1
## 901	2	1	3	1	3
## 902	3	2	2	1	2

## 903	3	2	2	2	1
## 904	4	4	3	1	1
## 905	3	1	5	1	2
## 906	3	2	2	3	2
## 907	3	5	5	5	4
## 908	2	1	3	1	1
## 909	2	2	2	3	2
## 910	5	3	2	2	3
## 911	5	5	4	1	2
## 912	4	5	4	1	5
## 913	4	2	3	3	2
## 914	4	4	2	3	4
## 915	5	5	5	2	4
## 916	3	3	3	4	1
## 917	5	4	1	1	1
## 918	4	4	2	3	2
## 919	4	2	4	1	3
## 920	3	5	5	1	2
## 921	5	1	3	1	3
## 922	2	3	2	3	2
## 923	1	1	2	4	3
## 924	5	5	2	3	3
## 925	1	1	1	1	1
## 926	3	2	5	2	3
## 927	2	5	2	1	2
## 928	2	3	1	3	1
## 929	4	3	4	3	3
## 930	3	5	3	3	3
## 931	1	1	3	3	2
## 932	3	1	2	2	3
## 933	2	1	3	4	2
## 934	5	4	3	1	2
## 935	2	3	3	4	1
## 936	1	1	3	1	1
## 937	3	2	3	3	2
## 938	5	5	5	2	5
## 939	5	5	1	5	3
## 940	4	3	4	4	2
## 941	2	2	1	5	1
## 942	4	4	3	1	1
## 943	3	3	3	5	2
## 944	3	3	3	2	2
## 945	3	2	3	2	3
## 946	4	3	4	1	3
## 947	5	4	2	2	3
## 948	1	2	1	1	1
## 949	3	2	4	2	2
## 950	3	2	3	2	1
## 951	4	2	2	3	3
## 952	5	4	1	5	1

## 953	3	4	4	4	2
## 954	4	3	5	1	1
## 955	3	2	5	4	3
## 956	3	1	3	1	1
## 957	4	1	1	1	2
## 958	1	1	2	2	1
## 959	2	3	2	4	2
## 960	5	4	3	1	2
## 961	2	5	1	1	4
## 962	2	3	4	4	3
## 963	1	1	3	1	3
## 964	1	1	2	4	4
## 965	4	5	3	2	4
## 966	5	2	5	4	3
## 967	1	5	5	1	5
## 968	4	2	3	2	3
## 969	3	2	2	3	2
## 970	4	3	2	1	1
## 971	4	4	2	1	5
## 972	4	3	2	3	2
## 973	5	5	3	2	2
## 974	2	3	1	1	3
## 975	4	4	2	2	1
## 976	5	5	5	5	5
## 977	4	2	5	2	3
## 978	2	3	2	4	1
## 979	5	3	3	1	2
## 980	4	1	4	2	3
## 981	4	1	4	1	4
## 982	4	5	2	1	2
## 983	4	5	1	1	2
## 984	3	3	4	2	1
## 985	4	3	3	1	1
## 986	3	5	2	1	2
## 987	4	4	2	4	4
## 988	3	4	2	1	1
## 989	5	5	5	4	3
## 990	3	3	5	5	3
## 991	3	1	2	1	2
## 992	4	2	1	2	1
## 993	1	1	2	5	2
## 994	1	4	1	2	1
## 995	5	3	1	1	1
## 996	1	2	2	5	1
## 997	3	3	1	1	1
## 998	1	2	4	1	1
## 999	5	3	3	5	2
## 1000	5	5	5	5	3
## 1001	3	3	3	3	1
## 1002	4	1	2	3	1

```
## 1003      2      4      1      3      1
## 1004      4      2      4      4      2
## 1005      3      2      2      5      3
## 1006      4      4      3      3      2
## 1007      3      1      3      4      1
## 1008      2      5      1      1      1
## 1009      2      5      2      2      1
## 1010      3      2      2      3      1

fit = lm(Music~Dance+Folk+Pop+Rock, data= music_transformed)
summary(fit)

##
## Call:
## lm(formula = Music ~ Dance + Folk + Pop + Rock, data = music_transformed)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.9013  0.0985  0.2135  0.3052  0.7219
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  4.095090   0.106376  38.497 < 2e-16 ***
## Dance        0.048990   0.019599   2.500  0.0126 *
## Folk         0.008519   0.018064   0.472  0.6373
## Pop          0.025551   0.019544   1.307  0.1914
## Rock         0.099906   0.017557   5.690 1.66e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6512 on 1005 degrees of freedom
## Multiple R-squared:  0.04085,    Adjusted R-squared:  0.03704
## F-statistic: 10.7 on 4 and 1005 DF,  p-value: 1.698e-08

coefficients(fit)

## (Intercept)      Dance      Folk      Pop      Rock
## 4.095089990 0.048989937 0.008519444 0.025550694 0.099906283

library(GGally)

## Warning: package 'GGally' was built under R version 3.6.3

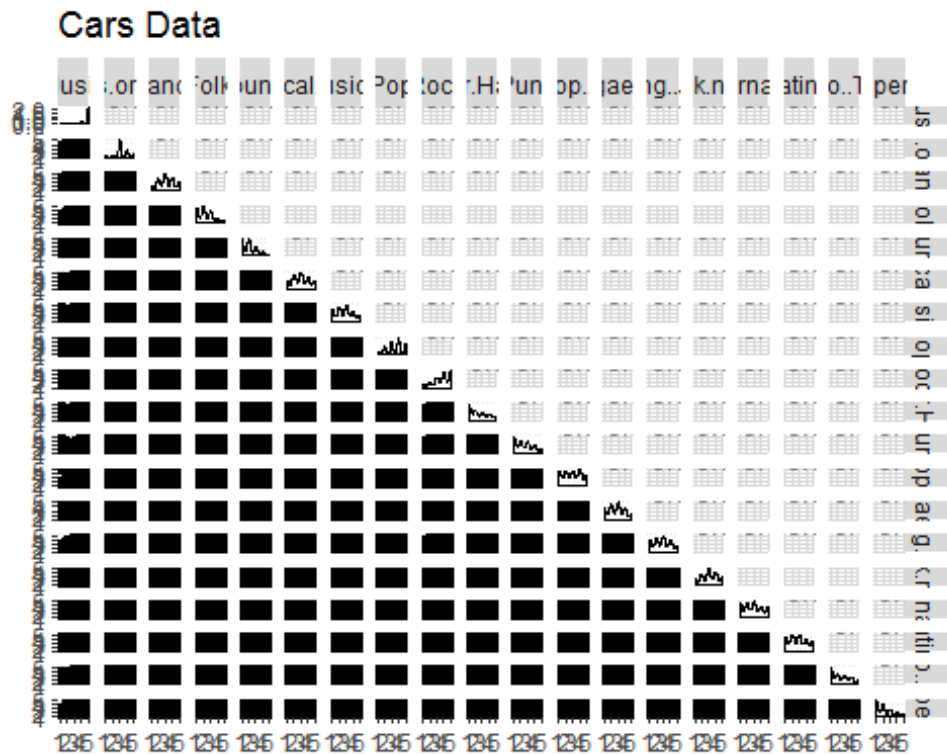
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg      ggplot2

##
## Attaching package: 'GGally'
```



```
## The following object is masked from 'package:dplyr':
##
##      nasa
```

```
ggpairs(data=music_transformed, title="Cars Data")
```



```
confint(fit, level=0.95)
```

```
##              2.5 %      97.5 %
## (Intercept)  3.88634627 4.30383371
## Dance        0.01052971 0.08745016
## Folk         -0.02692841 0.04396730
## Pop          -0.01280006 0.06390144
## Rock         0.06545376 0.13435880
```

Predicted Values

```
fitted(fit)
```

```
##      1      2      3      4      5      6      7      8
## 4.828874 4.777773 4.786292 4.452503 4.744080 4.769261 4.793070 4.860833
##      9     10     11     12     13     14     15     16
## 4.826763 4.811851 4.661020 4.703232 4.737302 4.693164 4.803323 4.786292
##     17     18     19     20     21     22     23     24
## 4.752407 4.769446 4.901496 4.718345 4.809731 4.703232 4.661020 4.909823
##     25     26     27     28     29     30     31     32
## 4.826763 4.535748 4.884465 4.726864 4.824836 4.752415 4.818436 4.727042
##     33     34     35     36     37     38     39     40
## 4.726856 4.612030 4.860833 4.695090 4.671466 4.503420 4.892977 4.894903
```

##	41	42	43	44	45	46	47	48
##	4.527229	4.807813	4.837394	4.777958	4.809917	4.884457	4.943893	4.752407
##	49	50	51	52	53	54	55	56
##	4.527044	4.777773	4.854433	4.794997	5.009922	4.727049	5.009922	4.710010
##	57	58	59	60	61	62	63	64
##	4.762853	4.818251	4.593258	4.677867	4.711937	4.850387	4.901496	4.699379
##	65	66	67	68	69	70	71	72
##	4.852313	4.626950	4.735561	4.544268	4.835282	4.679978	4.784551	4.420737
##	73	74	75	76	77	78	79	80
##	4.837394	4.586665	4.352597	4.801220	4.550483	4.875938	4.735561	4.952412
##	81	82	83	84	85	86	87	88
##	4.909823	4.826948	4.694720	4.975844	4.677681	4.743895	4.918342	4.901303
##	89	90	91	92	93	94	95	96
##	4.975844	4.835282	4.735376	4.762861	4.520458	4.588599	4.750481	4.635470
##	97	98	99	100	101	102	103	104
##	4.603326	4.352597	4.924743	4.601585	4.918342	4.620365	4.686201	4.584738
##	105	106	107	108	109	110	111	112
##	4.718345	4.620365	4.926862	4.603326	4.660835	4.786292	4.835475	4.792885
##	113	114	115	116	117	118	119	120
##	4.684460	4.809917	4.703417	4.984363	4.786292	4.637581	4.637396	4.610104
##	121	122	123	124	125	126	127	128
##	4.850202	4.720456	4.784181	4.843802	4.754341	4.718345	4.801397	4.769446
##	129	130	131	132	133	134	135	136
##	4.975844	4.967332	4.752222	4.552595	4.752407	4.552417	4.692979	4.777773
##	137	138	139	140	141	142	143	144
##	4.718530	4.843987	4.369636	4.892977	4.760927	4.745822	4.801397	4.809917
##	145	146	147	148	149	150	151	152
##	4.852313	4.750296	4.884457	4.835282	4.752600	4.395002	4.786292	4.701306
##	153	154	155	156	157	158	159	160
##	4.858906	4.659094	4.686201	4.692979	4.803331	4.826955	4.835467	4.926862
##	161	162	163	164	165	166	167	168
##	4.784181	4.811843	4.686579	4.652501	4.809917	4.559188	4.486388	4.735376
##	169	170	171	172	173	174	175	176
##	4.801397	4.777773	4.694905	4.752407	4.769261	4.478054	4.312134	4.728783
##	177	178	179	180	181	182	183	184
##	4.860841	4.703240	4.620365	4.286576	4.752222	4.792885	4.918342	4.661020
##	185	186	187	188	189	190	191	192
##	4.760742	4.527044	4.529163	4.563040	4.643989	4.594814	4.660835	4.563233
##	193	194	195	196	197	198	199	200
##	4.826948	4.703240	4.611845	4.560929	4.711937	4.510013	4.852321	4.650389
##	201	202	203	204	205	206	207	208
##	4.752407	4.854433	4.625024	4.909823	4.818251	4.728976	4.833356	4.594999
##	209	210	211	212	213	214	215	216
##	4.760927	4.867241	4.984371	4.975844	4.620365	4.935374	4.786292	4.386667
##	217	218	219	220	221	222	223	224
##	4.577775	4.701491	4.603511	4.525117	4.641878	4.909830	4.886384	4.569633
##	225	226	227	228	229	230	231	232
##	4.811843	4.769261	4.984371	4.677874	4.661028	4.710010	4.663139	4.860833
##	233	234	235	236	237	238	239	240
##	4.511939	4.809917	4.926862	4.728783	4.769446	4.710010	4.503605	4.758815

##	241	242	243	244	245	246	247	248
##	4.552410	4.577960	4.786477	4.828874	4.984363	4.694905	4.860833	4.835282
##	249	250	251	252	253	254	255	256
##	4.901303	4.903422	4.661020	4.984363	4.811843	4.427138	4.793070	4.811851
##	257	258	259	260	261	262	263	264
##	4.603704	4.867426	4.686201	4.743895	4.643989	4.635655	4.826770	4.884457
##	265	266	267	268	269	270	271	272
##	4.794997	4.586665	4.769446	4.767335	4.586665	4.826763	4.860833	4.918342
##	273	274	275	276	277	278	279	280
##	4.777780	4.809917	4.767520	4.743895	4.992883	4.803323	4.760934	4.710010
##	281	282	283	284	285	286	287	288
##	4.858721	4.758815	4.429064	4.809917	4.278056	4.877864	4.760927	4.752407
##	289	290	291	292	293	294	295	296
##	4.716418	4.809917	4.801397	4.843802	4.884457	4.735191	4.686386	4.860833
##	297	298	299	300	301	302	303	304
##	4.776031	4.552410	4.759000	4.750296	4.637404	4.686201	5.001402	4.811843
##	305	306	307	308	309	310	311	312
##	4.711937	4.809731	4.841875	4.728791	4.759000	4.784366	4.801397	5.009922
##	313	314	315	316	317	318	319	320
##	4.677867	4.561114	5.001402	4.480165	4.675940	4.933262	4.395187	4.843987
##	321	322	323	324	325	326	327	328
##	4.835282	4.860833	4.760742	4.728968	4.735561	4.826955	4.786477	4.686571
##	329	330	331	332	333	334	335	336
##	4.818251	4.809917	4.884272	4.809731	4.535563	4.786477	4.569448	4.818436
##	337	338	339	340	341	342	343	344
##	4.678052	4.724930	4.843802	4.760742	4.520458	4.403513	4.635470	4.812036
##	345	346	347	348	349	350	351	352
##	4.654620	4.809917	4.528970	4.760927	4.586672	4.684645	4.809917	4.886384
##	353	354	355	356	357	358	359	360
##	4.752222	4.552595	4.769446	4.603511	4.894903	4.701306	4.941782	4.635655
##	361	362	363	364	365	366	367	368
##	4.926854	4.835290	4.794812	4.745822	4.909823	4.735191	4.703417	4.877864
##	369	370	371	372	373	374	375	376
##	4.784551	4.616512	4.894903	5.009922	4.660835	4.629062	4.784551	4.835467
##	377	378	379	380	381	382	383	384
##	4.452688	4.794812	4.884457	4.875945	4.818436	4.760742	4.544268	4.786292
##	385	386	387	388	389	390	391	392
##	4.826763	4.975852	4.860833	4.684645	4.803516	4.535563	4.403513	4.643989
##	393	394	395	396	397	398	399	400
##	4.718530	4.477869	4.726856	4.726856	4.652509	4.486766	4.618438	4.728976
##	401	402	403	404	405	406	407	408
##	4.601585	4.752222	4.984371	4.694905	4.935381	4.544083	4.861026	4.684460
##	409	410	411	412	413	414	415	416
##	4.452696	4.850387	4.909823	4.886384	4.826763	4.818436	4.744080	4.877864
##	417	418	419	420	421	422	423	424
##	4.750481	4.386482	4.552787	4.984363	4.703232	4.746007	4.527229	4.786477
##	425	426	427	428	429	430	431	432
##	4.642063	4.852313	4.703232	4.618438	4.793070	4.752222	4.769446	4.550483
##	433	434	435	436	437	438	439	440
##	4.735191	4.852506	4.727042	4.728783	4.711937	4.577960	4.754334	4.659094

##	441	442	443	444	445	446	447	448
##	4.801397	4.786477	4.835467	4.586480	4.609919	4.735561	4.675940	4.295095
##	449	450	451	452	453	454	455	456
##	4.809917	4.743895	4.744080	4.760927	4.727042	4.686386	4.803323	4.935374
##	457	458	459	460	461	462	463	464
##	4.527044	4.909823	4.610297	4.560929	4.701306	4.603519	4.826763	4.678052
##	465	466	467	468	469	470	471	472
##	4.792885	4.435657	4.652501	4.593073	4.860833	4.750481	4.644174	4.884272
##	473	474	475	476	477	478	479	480
##	4.612030	4.603326	4.776031	4.835282	4.803323	4.752222	4.858906	4.735376
##	481	482	483	484	485	486	487	488
##	4.892977	4.550491	4.677867	4.860833	4.752407	4.909823	4.610104	4.482536
##	489	490	491	492	493	494	495	496
##	4.803331	4.760742	4.535563	4.760927	4.818251	4.727042	4.760742	4.777773
##	497	498	499	500	501	502	503	504
##	4.635470	4.894903	4.709825	4.728976	4.735384	4.835475	4.867241	4.711937
##	505	506	507	508	509	510	511	512
##	4.576219	4.852321	4.452503	4.527052	4.745822	4.535756	4.867426	4.626950
##	513	514	515	516	517	518	519	520
##	4.352605	4.726856	4.762861	4.918342	4.892977	4.752407	4.835467	4.541971
##	521	522	523	524	525	526	527	528
##	4.552595	4.810109	4.710010	4.682348	4.752222	4.843802	4.752407	4.752407
##	529	530	531	532	533	534	535	536
##	4.877864	4.737302	4.612223	4.786300	4.809917	4.826763	4.669540	4.894903
##	537	538	539	540	541	542	543	544
##	4.503605	4.735376	4.760927	4.860833	4.911942	4.535563	4.858906	4.801397
##	545	546	547	548	549	550	551	552
##	4.769261	4.643989	4.860833	4.603334	4.720271	4.776031	4.811851	4.569633
##	553	554	555	556	557	558	559	560
##	4.669355	4.601592	4.652509	4.593258	4.452688	4.720456	4.552595	4.807805
##	561	562	563	564	565	566	567	568
##	4.718530	4.818436	4.767520	4.901303	4.873641	4.659094	4.510013	4.684460
##	569	570	571	572	573	574	575	576
##	4.784551	4.701498	4.626950	4.510198	4.626950	4.701306	4.741969	4.726864
##	577	578	579	580	581	582	583	584
##	4.635470	4.684460	4.586665	4.943893	4.278056	4.686386	4.667428	4.728968
##	585	586	587	588	589	590	591	592
##	4.744080	4.743895	4.716418	4.652316	4.450577	4.677681	4.835282	4.469727
##	593	594	595	596	597	598	599	600
##	4.469727	4.769261	4.694905	4.577775	4.701491	4.935374	4.784366	4.892977
##	601	602	603	604	605	606	607	608
##	4.703417	4.628884	4.835467	4.760927	4.760927	4.762861	4.786477	4.652501
##	609	610	611	612	613	614	615	616
##	4.454807	4.635470	4.860833	4.686571	4.824836	4.735376	4.801397	4.869352
##	617	618	619	620	621	622	623	624
##	4.875753	4.735376	5.001402	4.643989	4.703417	4.624839	4.901496	4.443991
##	625	626	627	628	629	630	631	632
##	4.877864	4.693164	4.684460	4.476135	4.826763	4.867426	4.826948	4.958813
##	633	634	635	636	637	638	639	640
##	4.718530	4.686579	4.678059	4.826955	4.786485	4.845913	4.894903	4.726671

##	641	642	643	644	645	646	647	648
##	4.984363	4.669540	4.701498	4.909823	4.794997	4.584553	4.752407	4.678052
##	649	650	651	652	653	654	655	656
##	4.784559	4.733449	4.601585	4.684460	4.786477	4.835282	4.744080	4.835282
##	657	658	659	660	661	662	663	664
##	4.760742	4.727042	4.607993	4.803323	4.811843	4.427138	4.760927	4.669540
##	665	666	667	668	669	670	671	672
##	4.501501	4.711752	4.752222	4.426953	4.711752	4.684460	4.635470	4.643989
##	673	674	675	676	677	678	679	680
##	4.728976	4.737487	4.843802	4.794997	4.435472	4.661020	4.769261	4.735191
##	681	682	683	684	685	686	687	688
##	4.943893	4.892792	4.809917	4.862952	4.875938	4.661020	4.826955	4.826763
##	689	690	691	692	693	694	695	696
##	4.918342	4.752407	4.750296	4.784366	4.820362	4.661020	4.843802	4.835467
##	697	698	699	700	701	702	703	704
##	4.712129	4.852313	4.801590	4.744080	4.692794	4.625031	4.771372	4.743895
##	705	706	707	708	709	710	711	712
##	4.935374	4.924743	4.835467	4.686386	4.629062	4.835282	4.843987	4.769446
##	713	714	715	716	717	718	719	720
##	4.612030	4.752415	4.941782	4.769261	4.577968	4.654427	4.886384	4.678052
##	721	722	723	724	725	726	727	728
##	4.584553	4.786485	4.894903	4.835467	4.793070	4.610104	4.554714	4.828874
##	729	730	731	732	733	734	735	736
##	4.676125	4.811843	4.686201	4.760927	4.577960	4.760934	4.552602	4.295095
##	737	738	739	740	741	742	743	744
##	4.958813	4.735376	4.875753	4.869352	4.858906	4.661028	4.620365	4.660835
##	745	746	747	748	749	750	751	752
##	4.769261	4.752415	4.852313	4.618623	4.743895	4.752230	4.759008	4.854433
##	753	754	755	756	757	758	759	760
##	4.784551	4.735376	4.603511	4.786292	4.869352	4.716418	4.476128	4.901496
##	761	762	763	764	765	766	767	768
##	4.984363	4.452688	4.675940	4.835282	4.678052	4.803323	4.884465	4.469542
##	769	770	771	772	773	774	775	776
##	4.652501	4.643989	4.278056	4.803331	4.552595	4.884272	4.452503	4.677867
##	777	778	779	780	781	782	783	784
##	4.984371	4.678052	4.529155	4.643989	4.752407	4.675940	4.794812	4.837401
##	785	786	787	788	789	790	791	792
##	4.718530	4.595184	4.860833	4.537675	4.603511	4.843987	4.809731	4.527044
##	793	794	795	796	797	798	799	800
##	4.735376	4.527044	4.578145	4.873641	4.486758	4.599473	4.860833	4.611845
##	801	802	803	804	805	806	807	808
##	4.701491	4.950293	4.892977	4.777773	4.926854	4.943893	4.278056	4.446103
##	809	810	811	812	813	814	815	816
##	4.877864	4.550483	4.743710	4.794812	4.278056	4.452503	4.718530	4.769261
##	817	818	819	820	821	822	823	824
##	4.869352	4.779884	4.769446	4.552595	4.786292	4.811843	4.777958	4.535563
##	825	826	827	828	829	830	831	832
##	4.728783	4.720271	4.869352	4.877872	4.901303	4.737302	4.710010	4.835467
##	833	834	835	836	837	838	839	840
##	4.826770	4.677867	4.892792	4.786477	4.803323	4.867241	4.826948	4.710010

```

##      841      842      843      844      845      846      847      848
## 4.845913 4.818436 4.909823 4.809917 4.586487 4.478239 4.659094 4.903422
##      849      850      851      852      853      854      855      856
## 4.777773 4.429072 4.601585 4.501493 4.452503 4.701498 4.684460 4.892977
##      857      858      859      860      861      862      863      864
## 4.860833 4.710010 4.618438 4.727049 4.792885 4.835282 4.835467 4.535563
##      865      866      867      868      869      870      871      872
## 4.835282 4.792885 4.769261 4.710010 4.777965 4.803323 4.735561 4.835282
##      873      874      875      876      877      878      879      880
## 4.794812 4.784366 4.625024 4.527044 4.452688 4.694720 4.711937 4.799286
##      881      882      883      884      885      886      887      888
## 4.625024 4.754334 4.750296 4.652501 4.909823 4.760927 4.735376 4.809731
##      889      890      891      892      893      894      895      896
## 4.760927 4.743895 4.750481 4.818436 4.843802 4.669355 4.826763 4.684460
##      897      898      899      900      901      902      903      904
## 4.769261 4.612030 4.760742 4.577960 4.577960 4.537490 4.511939 4.752230
##      905      906      907      908      909      910      911      912
## 4.629062 4.818436 4.516606 4.744080 4.760927 4.718530 4.803323 4.786292
##      913      914      915      916      917      918      919      920
## 4.710010 4.801405 4.794812 4.858906 4.786292 4.760742 4.811843 4.735376
##      921      922      923      924      925      926      927      928
## 4.743895 4.710010 4.776031 4.711937 4.527044 4.593073 4.709825 4.776031
##      929      930      931      932      933      934      935      936
## 4.710010 4.586672 4.535563 4.710010 4.735561 4.686386 4.735376 4.578145
##      937      938      939      940      941      942      943      944
## 4.620550 4.926854 4.837401 4.801397 4.577960 4.760927 4.667613 4.735376
##      945      946      947      948      949      950      951      952
## 4.794997 4.858906 4.777773 4.626950 4.718530 4.735376 4.820362 4.701491
##      953      954      955      956      957      958      959      960
## 4.869352 4.777958 4.741969 4.752222 4.752407 4.452503 4.567707 4.661020
##      961      962      963      964      965      966      967      968
## 4.901311 4.752600 4.427145 4.843987 4.835282 4.992883 4.278056 4.760742
##      969      970      971      972      973      974      975      976
## 4.661020 4.803323 4.824836 4.777780 4.843802 4.786300 4.711752 5.009922
##      977      978      979      980      981      982      983      984
## 4.935374 4.809917 4.803323 4.935374 4.711937 4.637396 4.652316 4.678052
##      985      986      987      988      989      990      991      992
## 4.645915 4.771372 4.686394 4.735191 4.809731 4.886384 4.677867 4.726671
##      993      994      995      996      997      998      999     1000
## 4.775846 4.752407 4.835282 4.626765 4.577775 4.743895 4.892792 4.867426
##     1001     1002     1003     1004     1005     1006     1007     1008
## 4.669540 4.750481 4.801212 4.918342 4.675940 4.858906 4.550668 4.628877
##     1009     1010
## 4.743895 4.518717

```

residuals(fit)

```

##      1      2      3      4      5
6
## 0.171125809 -0.777772803 0.213707753 0.547496738 0.255919611

```

0.230739003					
##	7	8	9	10	11
12					
##	0.206929674	0.139167122	0.173237259	0.188149421	0.338979687
0.296767828					
##	13	14	15	16	17
18					
##	0.262697690	0.306835957	0.196676503	-3.786292247	0.247592848
0.230553960					
##	19	20	21	22	23
24					
##	0.098503948	0.281655348	0.190268510	0.296767828	0.338979687
0.090177184					
##	25	26	27	28	29
30					
##	0.173237259	0.464251620	0.115535198	-0.726864096	0.175163668
0.247585210					
##	31	32	33	34	35
36					
##	-0.818435977	-0.727041501	0.273143542	0.387969624	0.139167122
0.304909549					
##	37	38	39	40	41
42					
##	0.328533835	0.496580393	0.107023392	0.105096984	-0.527228936
0.192187280					
##	43	44	45	46	47
48					
##	0.162606365	0.222042154	-0.809916533	0.115542836	0.056107046
0.247592848					
##	49	50	51	52	53
54					
##	0.472956107	0.222227197	-0.854432523	0.205003266	-0.009921779
0.272950862					
##	55	56	57	58	59
60					
##	-0.009921779	0.289989749	0.237146996	0.181749066	0.406742239
0.322133479					
##	61	62	63	64	65
66					
##	0.288063341	0.149612974	0.098503948	0.300620644	0.147686565 -
0.626950176					
##	67	68	69	70	71
72					
##	-0.735560945	-1.544267824	0.164717816	0.320022028	0.215449118 -
0.420737255					
##	73	74	75	76	77
78					
##	0.162606365	0.413335275	0.647403021	0.198780316	-0.550483136
0.124062280					
##	79	80	81	82	83

84					
##	-0.735560945	0.047587603	0.090177184	0.173052217	0.305279634
	0.024155997				
##	85	86	87	88	89
90					
##	0.322318522	0.256104654	-0.918342260	0.098696628	0.024155997
	0.164717816				
##	91	92	93	94	95
96					
##	-0.735375902	0.237139358	0.479541505	0.411401229	0.249519256
	0.364530381				
##	97	98	99	100	101
102					
##	0.396674110	0.647403021	-1.924742615	0.398415476	0.081657740
	0.379635223				
##	103	104	105	106	107
108					
##	0.313799078	0.415261683	-0.718344652	0.379635223	0.073138297
	0.396674110				
##	109	110	111	112	113
114					
##	-0.660835271	0.213707753	0.164525135	0.207114717	0.315540443 -
	1.809916533				
##	115	116	117	118	119
120					
##	0.296582785	0.015636553	0.213707753	0.362418930	0.362603973 -
	0.610103968				
##	121	122	123	124	125
126					
##	0.149798016	-0.720456103	0.215819204	0.156198372	-0.754341198
	0.281655348				
##	127	128	129	130	131
132					
##	-1.801397089	-0.769446040	0.024155997	0.032667803	-0.752222109
	0.447405413				
##	133	134	135	136	137
138					
##	0.247592848	0.447582818	0.307021000	0.222227197	0.281470305
	0.156013329				
##	139	140	141	142	143
144					
##	0.630364133	0.107023392	0.239073404	-1.745821754	0.198602911
	0.190083467				
##	145	146	147	148	149
150					
##	0.147686565	-3.750295701	0.115542836	0.164717816	-0.752599832 -
	2.395001518				
##	151	152	153	154	155
156					
##	0.213707753	0.298694236	0.141093530	-2.659093905	0.313799078

0.307021000					
##	157	158	159	160	161
162					
##	0.196668865	0.173044579	0.164532773	0.073138297	0.215819204
0.188157059					
##	163	164	165	166	167
168					
##	-0.686578645	0.347499130	0.190083467	0.440812377	0.513611643 -
1.735375902					
##	169	170	171	172	173
174					
##	0.198602911	0.222227197	-0.694905409	0.247592848	0.230739003
0.521946044					
##	175	176	177	178	179
180					
##	0.687865876	0.271217134	0.139159484	0.296760190	-0.620364777 -
0.286575792					
##	181	182	183	184	185
186					
##	-0.752222109	0.207114717	0.081657740	0.338979687	0.239258447 -
1.527043893					
##	187	188	189	190	191
192					
##	-0.529162981	0.436959561	-1.643989063	0.405185917	-0.660835271
0.436766881					
##	193	194	195	196	197
198					
##	0.173052217	0.296760190	0.388154667	0.439071012	0.288063341
0.489987357					
##	199	200	201	202	203
204					
##	0.147678928	0.349610581	-0.752407152	0.145567477	0.374976233
0.090177184					
##	205	206	207	208	209
210					
##	0.181749066	0.271024454	0.166644224	0.405000874	0.239073404
0.132759129					
##	211	212	213	214	215
216					
##	0.015628915	0.024155997	0.379635223	0.064626490	-0.786292247 -
3.386667117					
##	217	218	219	220	221
222					
##	0.422224804	0.298509193	0.396489068	0.474882515	0.358122388
0.090169547					
##	223	224	225	226	227
228					
##	0.113616428	0.430366525	0.188157059	0.230739003	0.015628915
0.322125842					
##	229	230	231	232	233

234					
##	-0.661027951	-0.710010251	0.336860598	0.139167122	0.488060949 -
	0.809916533				
##	235	236	237	238	239
240					
##	-0.926861703	0.271217134	-3.769446040	0.289989749	0.496395350
	0.241184855				
##	241	242	243	244	245
246					
##	-1.552409544	0.422039762	-1.786477290	0.171125809	0.015636553
	0.305094591				
##	247	248	249	250	251
252					
##	0.139167122	0.164717816	0.098696628	0.096577540	0.338979687
	0.015636553				
##	253	254	255	256	257
258					
##	0.188157059	0.572862389	0.206929674	0.188149421	0.396296387
	0.132574086				
##	259	260	261	262	263
264					
##	0.313799078	-2.743895346	-1.643989063	0.364345338	0.173229622
	0.115542836				
##	265	266	267	268	269
270					
##	-1.794996734	0.413335275	0.230553960	0.232665411	0.413335275
	0.173237259				
##	271	272	273	274	275
276					
##	0.139167122	0.081657740	0.222219559	0.190083467	0.232480368
	0.256104654				
##	277	278	279	280	281
282					
##	0.007117109	0.196676503	0.239065766	0.289989749	0.141278572
	0.241184855				
##	283	284	285	286	287
288					
##	0.570935981	0.190083467	-3.278056348	0.122135871	0.239073404
	0.247592848				
##	289	290	291	292	293
294					
##	0.283581756	0.190083467	-0.801397089	-0.843801628	0.115542836
	0.264809141				
##	295	296	297	298	299
300					
##	0.313614035	0.139167122	0.223968562	0.447590456	0.240999812
	0.249704299				
##	301	302	303	304	305
306					
##	0.362596335	-0.686200922	-0.001402335	-0.811842941	0.288063341

0.190268510					
##	307	308	309	310	311
312					
##	0.158124780	0.271209496	0.240999812	0.215634161	0.198602911 -
0.009921779					
##	313	314	315	316	317
318					
##	-2.677866521	0.438885969	-0.001402335	0.519834593	0.324059887
0.066737941					
##	319	320	321	322	323
324					
##	0.604813439	0.156013329	0.164717816	0.139167122	0.239258447
0.271032091					
##	325	326	327	328	329
330					
##	0.264439055	0.173044579	0.213522710	0.313428993	0.181749066
0.190083467					
##	331	332	333	334	335
336					
##	0.115727878	0.190268510	-0.535563337	0.213522710	0.430551568
0.181564023					
##	337	338	339	340	341
342					
##	0.321948436	0.275069950	0.156198372	0.239258447	0.479541505
0.596486675					
##	343	344	345	346	347
348					
##	0.364530381	0.187964378	0.345380042	-0.809916533	0.471029699
0.239073404					
##	349	350	351	352	353
354					
##	0.413327637	0.315355401	-2.809916533	0.113616428	0.247777891
0.447405413					
##	355	356	357	358	359
360					
##	0.230553960	0.396489068	-0.894903016	0.298694236	-0.941781503
0.364345338					
##	361	362	363	364	365
366					
##	0.073145934	0.164710178	0.205188309	0.254178246	-2.909822816
0.264809141					
##	367	368	369	370	371
372					
##	0.296582785	0.122135871	0.215449118	0.383488039	0.105096984 -
0.009921779					
##	373	374	375	376	377
378					
##	-0.660835271	0.370938374	0.215449118	0.164532773	0.547311695
0.205188309					
##	379	380	381	382	383

```

384
## 0.115542836 0.124054642 0.181564023 0.239258447 0.455732176
0.213707753
## 385 386 387 388 389
390
## 0.173237259 0.024148359 0.139167122 0.315355401 0.196483822
0.464436663
## 391 392 393 394 395
396
## -0.403513325 -0.643989063 0.281470305 0.522131087 0.273143542
0.273143542
## 397 398 399 400 401
402
## 0.347491493 0.513233920 0.381561631 0.271024454 0.398415476
0.247777891
## 403 404 405 406 407
408
## 0.015628915 -2.694905409 0.064618853 -0.544082781 0.138974441
0.315540443
## 409 410 411 412 413
414
## 0.547304058 0.149612974 0.090177184 0.113616428 0.173237259
0.181564023
## 415 416 417 418 419
420
## 0.255919611 0.122135871 -0.750480744 0.613517926 0.447212733
0.015636553
## 421 422 423 424 425
426
## 0.296767828 0.253993203 0.472771064 0.213522710 0.357937345
0.147686565
## 427 428 429 430 431
432
## 0.296767828 0.381561631 0.206929674 0.247777891 0.230553960 -
0.550483136
## 433 434 435 436 437
438
## 0.264809141 0.147493885 0.272958499 0.271217134 -0.711936659
0.422039762
## 439 440 441 442 443
444
## 0.245666440 0.340906095 0.198602911 0.213522710 0.164532773 -
0.586479682
## 445 446 447 448 449
450
## 0.390081075 0.264439055 -0.675940113 -1.295095236 0.190083467
0.256104654
## 451 452 453 454 455
456
## 0.255919611 0.239073404 0.272958499 0.313614035 -0.803323497

```

0.064626490					
##	457	458	459	460	461
462					
##	0.472956107	0.090177184	0.389703351	-0.560928988	0.298694236
0.396481430					
##	463	464	465	466	467
468					
##	-0.826762741	0.321948436	0.207114717	0.564342946	0.347499130 -
0.593072718					
##	469	470	471	472	473
474					
##	0.139167122	0.249519256	-0.644174106	0.115727878	-1.612030376
0.396674110					
##	475	476	477	478	479
480					
##	0.223968562	0.164717816	0.196676503	0.247777891	0.141093530
0.264624098					
##	481	482	483	484	485
486					
##	0.107023392	0.449509226	-1.677866521	0.139167122	0.247592848
0.090177184					
##	487	488	489	490	491
492					
##	-1.610103968	0.517464459	0.196668865	0.239258447	-0.535563337
0.239073404					
##	493	494	495	496	497
498					
##	0.181749066	0.272958499	0.239258447	0.222227197	-1.635469619
0.105096984					
##	499	500	501	502	503
504					
##	0.290174792	0.271024454	0.264616460	0.164525135	0.132759129
0.288063341					
##	505	506	507	508	509
510					
##	0.423781127	0.147678928	0.547496738	0.472948469	0.254178246 -
0.535756017					
##	511	512	513	514	515
516					
##	0.132574086	0.373049824	0.647395383	0.273143542	0.237139358
0.081657740					
##	517	518	519	520	521
522					
##	0.107023392	0.247592848	0.164532773	0.458028670	0.447405413
0.189890786					
##	523	524	525	526	527
528					
##	0.289989749	0.317651894	0.247777891	-1.843801628	0.247592848 -
0.752407152					
##	529	530	531	532	533

534
0.122135871 0.262697690 0.387776943 0.213700115 0.190083467
0.173237259
535 536 537 538 539
540
0.330460243 0.105096984 0.496395350 0.264624098 0.239073404
0.139167122
541 542 543 544 545
546
0.088058096 0.464436663 0.141093530 0.198602911 0.230739003
0.356010937
547 548 549 550 551
552
0.139167122 0.396666473 -0.720271060 0.223968562 0.188149421
0.430366525
553 554 555 556 557
558
0.330645285 -1.601592162 -0.652508507 0.406742239 0.547311695
0.279543897
559 560 561 562 563
564
-0.552594587 0.192194918 0.281470305 0.181564023 0.232480368
0.098696628
565 566 567 568 569
570
0.126358773 0.340906095 0.489987357 0.315540443 0.215449118
0.298501556
571 572 573 574 575
576
0.373049824 -1.510197686 0.373049824 -0.701305764 0.258031062
0.273135904
577 578 579 580 581
582
0.364530381 0.315540443 0.413335275 0.056107046 0.721943652
0.313614035
583 584 585 586 587
588
-1.667428306 0.271032091 0.255919611 0.256104654 0.283581756
0.347684173
589 590 591 592 593
594
0.549423146 0.322318522 0.164717816 -0.469727192 0.530272808
0.230739003
595 596 597 598 599
600
0.305094591 0.422224804 0.298509193 0.064626490 -0.784365839
0.107023392
601 602 603 604 605
606
0.296582785 0.371115779 -0.835467227 0.239073404 0.239073404

```

0.237139358
##          607          608          609          610          611
612
## -0.786477290 -1.652500870 -1.454807393 -0.635469619  0.139167122
0.313428993
##          613          614          615          616          617
618
##  0.175163668  0.264624098  0.198602911  0.130647678 -1.875752678
0.264624098
##          619          620          621          622          623
624
## -0.001402335  0.356010937  0.296582785 -0.624838725  0.098503948
0.556008544
##          625          626          627          628          629
630
##  0.122135871  0.306835957  0.315540443  0.523864815 -0.826762741
0.132574086
##          631          632          633          634          635
636
##  0.173052217  0.041187247  0.281470305  0.313421355  0.321940799 -
0.826955421
##          637          638          639          640          641
642
##  0.213515072  0.154086921  0.105096984  0.273328585  0.015636553
0.330460243
##          643          644          645          646          647
648
## -0.701498444  0.090177184 -0.794996734  0.415446726 -0.752407152
0.321948436
##          649          650          651          652          653
654
##  0.215441481  0.266550506  0.398415476  0.315540443 -0.786477290
0.164717816
##          655          656          657          658          659
660
## -0.744080389  0.164717816  0.239258447  0.272958499  0.392007483
0.196676503
##          661          662          663          664          665
666
##  0.188157059  0.572862389  0.239073404  0.330460243  0.498499163
0.288248384
##          667          668          669          670          671
672
##  0.247777891  0.573047432  0.288248384 -0.684459557  0.364530381
0.356010937
##          673          674          675          676          677
678
## -1.728975546 -0.737487353  0.156198372  0.205003266  0.564527988 -
0.661020313
##          679          680          681          682          683

```

```

684
## 0.230739003 0.264809141 0.056107046 0.107208434 -0.809916533
0.137048033
## 685 686 687 688 689
690
## 0.124062280 0.338979687 -2.826955421 0.173237259 0.081657740
0.247592848
## 691 692 693 694 695
696
## 0.249704299 0.215634161 0.179637615 0.338979687 0.156198372
0.164532773
## 697 698 699 700 701
702
## 0.287870661 0.147686565 0.198410230 0.255919611 0.307206042
0.374968595
## 703 704 705 706 707
708
## 0.228627552 -0.743895346 0.064626490 0.075257385 0.164532773
0.313614035
## 709 710 711 712 713
714
## 0.370938374 0.164717816 -0.843986671 -0.769446040 0.387969624
0.247585210
## 715 716 717 718 719
720
## 0.058218497 -0.769260997 0.422032124 0.345572722 0.113616428 -
0.678051564
## 721 722 723 724 725
726
## -0.584553274 0.213515072 0.105096984 0.164532773 -0.793070326
0.389896032
## 727 728 729 730 731
732
## 0.445286325 0.171125809 0.323874845 0.188157059 0.313799078
0.239073404
## 733 734 735 736 737
738
## 0.422039762 -0.760934234 0.447397775 -2.295095236 -0.958812753
0.264624098
## 739 740 741 742 743
744
## 0.124247322 0.130647678 -0.858906470 0.338972049 0.379635223 -
2.660835271
## 745 746 747 748 749
750
## 0.230739003 0.247585210 0.147686565 0.381376588 0.256104654
0.247770253
## 751 752 753 754 755
756
## 0.240992175 0.145567477 0.215449118 0.264624098 -0.603510932

```



```

0.213707753
##          757          758          759          760          761
762
##  0.130647678  0.283581756  0.523872452  0.098503948  0.015636553
0.547311695
##          763          764          765          766          767
768
##  0.324059887  0.164717816  0.321948436  0.196676503  0.115535198 -
3.469542150
##          769          770          771          772          773
774
## -0.652500870 -1.643989063 -3.278056348  0.196668865  0.447405413
0.115727878
##          775          776          777          778          779
780
## -1.452503262  0.322133479  0.015628915  0.321948436  0.470844656
0.356010937
##          781          782          783          784          785
786
##  0.247592848 -0.675940113  0.205188309  0.162598727 -0.718529695 -
0.595184169
##          787          788          789          790          791
792
##  0.139167122  0.462325212  0.396489068  0.156013329  0.190268510
0.472956107
##          793          794          795          796          797
798
##  0.264624098 -2.527043893 -0.578145281  0.126358773 -1.486758442
0.400526927
##          799          800          801          802          803
804
##  0.139167122  0.388154667  0.298509193 -0.950293309  0.107023392
0.222227197
##          805          806          807          808          809
810
##  0.073145934  0.056107046 -3.278056348 -1.446102906  0.122135871 -
0.550483136
##          811          812          813          814          815
816
##  0.256289697  0.205188309  0.721943652  0.547496738  0.281470305
0.230739003
##          817          818          819          820          821
822
##  0.130647678 -1.779884254 -0.769446040  0.447405413  0.213707753
0.188157059
##          823          824          825          826          827
828
##  0.222042154  0.464436663  0.271217134 -0.720271060  0.130647678
0.122128234
##          829          830          831          832          833

```

834
 ## -3.901303372 0.262697690 0.289989749 0.164532773 0.173229622 -
 1.677866521
 ## 835 836 837 838 839
 840
 ## -0.892791566 -0.786477290 0.196676503 0.132759129 0.173052217 -
 0.710010251
 ## 841 842 843 844 845
 846
 ## 0.154086921 0.181564023 0.090177184 0.190083467 0.413512680 -
 0.478238999
 ## 847 848 849 850 851
 852
 ## 0.340906095 0.096577540 0.222227197 -1.429071656 -0.601584524
 0.498506801
 ## 853 854 855 856 857
 858
 ## 0.547496738 0.298501556 0.315540443 0.107023392 0.139167122
 0.289989749
 ## 859 860 861 862 863
 864
 ## -1.618438369 0.272950862 0.207114717 0.164717816 0.164532773
 0.464436663
 ## 865 866 867 868 869
 870
 ## 0.164717816 -0.792885283 -0.769260997 0.289989749 0.222034516
 0.196676503
 ## 871 872 873 874 875
 876
 ## 0.264439055 0.164717816 0.205188309 -0.784365839 0.374976233
 0.472956107
 ## 877 878 879 880 881
 882
 ## 0.547311695 0.305279634 -0.711936659 -0.799285638 0.374976233
 0.245666440
 ## 883 884 885 886 887
 888
 ## 0.249704299 0.347499130 0.090177184 -1.760926596 0.264624098 -
 0.809731490
 ## 889 890 891 892 893
 894
 ## 0.239073404 0.256104654 0.249519256 0.181564023 0.156198372
 0.330645285
 ## 895 896 897 898 899
 900
 ## 0.173237259 -0.684459557 0.230739003 0.387969624 0.239258447
 0.422039762
 ## 901 902 903 904 905
 906
 ## 0.422039762 -0.537489745 0.488060949 0.247770253 -1.629061626

0.181564023					
##	907	908	909	910	911
912					
##	0.483394321	0.255919611	0.239073404	0.281470305	0.196676503
0.213707753					
##	913	914	915	916	917
918					
##	0.289989749	0.198595273	0.205188309	-0.858906470	-0.786292247
0.239258447					
##	919	920	921	922	923
924					
##	-0.811842941	0.264624098	-0.743895346	0.289989749	0.223968562
0.288063341					
##	925	926	927	928	929
930					
##	0.472956107	0.406927282	0.290174792	0.223968562	0.289989749 -
1.586672363					
##	931	932	933	934	935
936					
##	0.464436663	0.289989749	0.264439055	0.313614035	0.264624098
0.421854719					
##	937	938	939	940	941
942					
##	-0.620549820	0.073145934	0.162598727	-0.801397089	0.422039762
0.239073404					
##	943	944	945	946	947
948					
##	0.332386651	-0.735375902	0.205003266	0.141093530	0.222227197
0.373049824					
##	949	950	951	952	953
954					
##	0.281470305	0.264624098	0.179637615	-0.701490807	0.130647678
0.222042154					
##	955	956	957	958	959
960					
##	0.258031062	0.247777891	0.247592848	0.547496738	0.432292933 -
0.661020313					
##	961	962	963	964	965
966					
##	0.098688991	0.247400168	0.572854752	-0.843986671	0.164717816
0.007117109					
##	967	968	969	970	971
972					
##	0.721943652	0.239258447	0.338979687	0.196676503	0.175163668
0.222219559					
##	973	974	975	976	977
978					
##	0.156198372	0.213700115	0.288248384	-0.009921779	0.064626490
0.190083467					
##	979	980	981	982	983

```

984
## 0.196676503 0.064626490 0.288063341 0.362603973 0.347684173
0.321948436
##          985          986          987          988          989
990
## 0.354084529 0.228627552 -0.686393602 -0.735190859 0.190268510
0.113616428
##          991          992          993          994          995
996
## 0.322133479 0.273328585 -0.775846395 0.247592848 0.164717816
0.373234867
##          997          998          999          1000          1001
1002
## 0.422224804 0.256104654 0.107208434 0.132574086 0.330460243
0.249519256
##          1003          1004          1005          1006          1007
1008
## 0.198787953 -0.918342260 0.324059887 0.141093530 -0.550668179 -
0.628876584
##          1009          1010
## 0.256104654 0.481282870

```

#Anova Table

```
anova(fit)
```

```
## Analysis of Variance Table
```

```
##
```

```
## Response: Music
```

```
##          Df Sum Sq Mean Sq F value    Pr(>F)
## Dance      1   3.02   3.0206    7.1237 0.00773 **
## Folk       1   0.33   0.3264    0.7698 0.38049
## Pop        1   1.07   1.0742    2.5334 0.11177
## Rock       1  13.73  13.7299   32.3807 1.662e-08 ***
## Residuals 1005 426.14   0.4240
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
vcov(fit)
```

```
##          (Intercept)          Dance          Folk          Pop
## (Intercept) 0.0113157661 -7.590845e-04 -5.928360e-04 -7.606637e-04
## Dance      -0.0007590845  3.841322e-04 -2.628509e-05 -1.638440e-04
## Folk       -0.0005928360 -2.628509e-05  3.263151e-04  4.148151e-06
## Pop        -0.0007606637 -1.638440e-04  4.148151e-06  3.819485e-04
## Rock       -0.0012050029  5.073407e-05 -2.320344e-05 -1.702447e-05
##          Rock
## (Intercept) -1.205003e-03
## Dance       5.073407e-05
## Folk       -2.320344e-05
## Pop        -1.702447e-05
## Rock       3.082471e-04

```

```
cov2cor(vcov(fit))
```

```
##              (Intercept)      Dance      Folk      Pop      Rock
## (Intercept)   1.0000000 -0.36408918 -0.30851341 -0.36588812 -0.64520332
## Dance         -0.3640892  1.00000000 -0.07424215 -0.42774787  0.14743812
## Folk          -0.3085134 -0.07424215  1.00000000  0.01174988 -0.07316177
## Pop           -0.3658881 -0.42774787  0.01174988  1.00000000 -0.04961600
## Rock          -0.6452033  0.14743812 -0.07316177 -0.04961600  1.00000000
```

```
temp <- influence.measures(fit)
```

```
temp
```

```
## Influence measures of
```

```
##   lm(formula = Music ~ Dance + Folk + Pop + Rock, data =
music_transformed) :
```

```
##
##          dfb.1_  dfb.Danc  dfb.Folk  dfb.Pop  dfb.Rock  dffit cov.r
cook.d
## 1    -2.38e-03 -1.21e-02 -9.32e-03  1.54e-02  7.62e-03  0.022794 1.012
1.04e-04
## 2    -1.55e-02  2.40e-02  4.31e-02  2.21e-03 -3.81e-02 -0.076217 1.002
1.16e-03
## 3     1.45e-03 -7.25e-03 -2.69e-03 -5.00e-04  9.79e-03  0.017448 1.007
6.09e-05
## 4     6.44e-02 -1.61e-02 -2.57e-02 -2.36e-02 -4.03e-02  0.066651 1.008
8.89e-04
## 5    -5.22e-03  9.75e-04  7.78e-03  1.41e-02 -8.00e-03  0.023326 1.008
1.09e-04
## 6     2.43e-03 -4.00e-03  6.83e-03 -1.11e-02  1.04e-02  0.022775 1.008
1.04e-04
## 7    -7.72e-03  1.04e-02  5.58e-03  7.30e-03 -5.06e-03  0.021537 1.009
9.29e-05
## 8    -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 9     5.34e-04  2.70e-03 -1.02e-02 -3.93e-03  9.67e-03  0.016325 1.008
5.33e-05
## 10   -6.20e-03 -8.22e-03  2.19e-02 -1.58e-04  6.89e-03  0.026655 1.013
1.42e-04
## 11    9.00e-03 -6.64e-03 -3.19e-03  9.54e-03 -1.11e-02  0.022177 1.005
9.84e-05
## 12    1.60e-02 -1.71e-02 -1.56e-02 -8.70e-03  1.32e-02  0.036635 1.010
2.69e-04
## 13    6.23e-03 -2.11e-02 -2.41e-03  4.60e-03  1.03e-02  0.028790 1.009
1.66e-04
## 14   -3.23e-03  1.36e-02  9.23e-03  1.15e-02 -2.03e-02  0.037130 1.010
2.76e-04
## 15    6.00e-04 -9.96e-03 -1.08e-02  8.55e-03  9.19e-03  0.021077 1.009
8.89e-05
## 16   -2.61e-02  1.31e-01  4.86e-02  9.01e-03 -1.76e-01 -0.314471 0.849
1.91e-02
```

## 17	3.21e-03	-2.55e-03	-1.37e-02	6.34e-03	2.96e-03	0.019473	1.007
	7.59e-05						
## 18	-3.08e-03	-3.83e-03	6.96e-03	6.13e-03	1.32e-03	0.014671	1.006
	4.31e-05						
## 19	-7.63e-03	5.25e-03	6.58e-03	3.33e-03	1.38e-03	0.011840	1.011
	2.81e-05						
## 20	5.75e-03	6.45e-03	8.21e-03	-1.85e-02	2.90e-03	0.024694	1.007
	1.22e-04						
## 21	1.30e-03	6.13e-03	-3.16e-03	-1.30e-02	1.05e-02	0.018910	1.009
	7.16e-05						
## 22	1.60e-02	-1.71e-02	-1.56e-02	-8.70e-03	1.32e-02	0.036635	1.010
	2.69e-04						
## 23	9.00e-03	-6.64e-03	-3.19e-03	9.54e-03	-1.11e-02	0.022177	1.005
	9.84e-05						
## 24	-3.96e-03	3.52e-03	-1.71e-03	3.81e-04	5.16e-03	0.007665	1.008
	1.18e-05						
## 25	5.34e-04	2.70e-03	-1.02e-02	-3.93e-03	9.67e-03	0.016325	1.008
	5.33e-05						
## 26	2.16e-02	-2.46e-03	-2.92e-03	2.74e-02	-5.19e-02	0.064486	1.011
	8.32e-04						
## 27	-8.54e-03	8.10e-03	1.26e-02	-1.40e-03	1.53e-03	0.016781	1.014
	5.64e-05						
## 28	-5.28e-03	-1.44e-02	-5.24e-02	4.76e-02	-5.23e-03	-0.079826	1.004
	1.27e-03						
## 29	-6.82e-04	1.80e-02	-1.10e-02	-1.06e-02	4.91e-03	0.022453	1.012
	1.01e-04						
## 30	-2.39e-03	-1.27e-05	1.79e-02	-4.73e-03	1.21e-03	0.022288	1.008
	9.94e-05						
## 31	2.48e-02	-2.43e-02	-2.19e-02	-5.55e-03	-1.03e-02	-0.055880	0.999
	6.24e-04						
## 32	-4.34e-03	-7.39e-03	4.01e-02	-3.94e-02	1.82e-02	-0.074309	1.003
	1.10e-03						
## 33	8.15e-03	2.58e-03	-1.52e-02	-5.63e-03	3.89e-03	0.021076	1.007
	8.89e-05						
## 34	1.69e-02	-2.56e-02	-2.33e-03	1.86e-02	-1.53e-02	0.035268	1.007
	2.49e-04						
## 35	-3.76e-03	-1.02e-03	-2.16e-03	3.34e-03	7.00e-03	0.010554	1.007
	2.23e-05						
## 36	-1.07e-03	-1.30e-02	1.03e-02	2.29e-02	-1.16e-02	0.030673	1.008
	1.88e-04						
## 37	6.71e-03	-3.61e-02	1.22e-02	2.18e-02	-2.62e-03	0.041366	1.010
	3.42e-04						
## 38	5.35e-02	-3.47e-02	-2.31e-02	-1.25e-02	-1.92e-02	0.060321	1.008
	7.28e-04						
## 39	-6.86e-03	6.03e-03	2.56e-03	3.56e-03	1.83e-03	0.010979	1.009
	2.41e-05						
## 40	-6.01e-03	-3.19e-03	2.92e-03	7.45e-03	4.73e-03	0.010868	1.009
	2.36e-05						
## 41	-3.16e-02	1.11e-03	2.60e-02	-3.09e-02	5.73e-02	-0.077710	1.011
	1.21e-03						

```
## 42  -4.44e-03  2.52e-02  2.09e-02 -2.94e-02  3.91e-03  0.040665 1.023
3.31e-04
## 43  -4.41e-03 -1.20e-02 -1.88e-03  1.47e-02  6.73e-03  0.019831 1.011
7.87e-05
## 44  -8.78e-04 -6.69e-03 -1.22e-02  1.60e-02  2.15e-03  0.022995 1.009
1.06e-04
## 45   1.38e-02 -2.66e-02  1.29e-02 -5.09e-03 -1.27e-02 -0.052459 0.999
5.50e-04
## 46  -5.89e-03  6.88e-03 -2.18e-03  3.78e-03  2.34e-03  0.011729 1.009
2.75e-05
## 47  -4.15e-03  9.02e-04  1.37e-03  2.86e-03  2.91e-03  0.005618 1.009
6.32e-06
## 48   3.21e-03 -2.55e-03 -1.37e-02  6.34e-03  2.96e-03  0.019473 1.007
7.59e-05
## 49   3.95e-02 -1.32e-03 -2.35e-02 -7.81e-03 -3.26e-02  0.048506 1.007
4.71e-04
## 50   4.44e-03 -6.84e-03 -1.23e-02 -6.32e-04  1.09e-02  0.021763 1.008
9.48e-05
## 51   4.59e-02  6.86e-02 -6.35e-02 -7.83e-02 -3.01e-02 -0.121923 1.005
2.97e-03
## 52  -6.22e-03 -7.47e-03  6.31e-03  1.49e-02  7.03e-04  0.019084 1.008
7.29e-05
## 53   1.17e-03 -5.60e-04 -1.06e-03 -3.21e-04 -5.23e-04 -0.001564 1.015
4.90e-07
## 54  -4.55e-03  5.58e-03  1.98e-02  2.55e-03 -8.77e-03  0.026939 1.008
1.45e-04
## 55   1.17e-03 -5.60e-04 -1.06e-03 -3.21e-04 -5.23e-04 -0.001564 1.015
4.90e-07
## 56   2.81e-03  7.75e-03 -3.73e-03  2.42e-03 -7.48e-03  0.019693 1.006
7.76e-05
## 57   1.60e-03 -2.38e-02 -2.05e-03  1.52e-02  8.73e-03  0.029835 1.011
1.78e-04
## 58  -1.16e-03  5.28e-03  4.75e-03 -1.24e-02  9.43e-03  0.018435 1.009
6.80e-05
## 59   6.67e-03  1.55e-02  1.35e-02  1.61e-02 -4.40e-02  0.060364 1.012
7.29e-04
## 60   1.51e-02 -1.19e-02 -1.68e-02 -2.52e-04  2.39e-03  0.027394 1.007
1.50e-04
## 61   4.80e-03 -1.72e-02 -2.60e-03  1.32e-02  5.80e-04  0.023571 1.007
1.11e-04
## 62  -3.12e-03  1.24e-02 -9.31e-03 -2.11e-03  3.84e-03  0.017014 1.010
5.80e-05
## 63  -7.63e-03  5.25e-03  6.58e-03  3.33e-03  1.38e-03  0.011840 1.011
2.81e-05
## 64   1.21e-02  3.50e-02 -1.82e-02 -3.16e-02 -3.42e-03  0.046127 1.014
4.26e-04
## 65  -2.04e-03 -6.18e-04 -8.60e-03  3.48e-03  7.90e-03  0.013949 1.009
3.90e-05
## 66  -3.55e-02 -2.10e-03  3.30e-02  1.16e-02  1.71e-02 -0.050548 1.003
5.11e-04
```

```
## 67    5.31e-03 -5.14e-03  9.08e-03 -4.02e-02  2.07e-02 -0.063868 1.002
8.16e-04
## 68   -5.17e-02  1.31e-02 -5.68e-02 -9.22e-02  1.78e-01 -0.222325 0.985
9.84e-03
## 69   -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 70    9.61e-03 -3.96e-02 -1.54e-02  3.59e-02 -1.29e-03  0.050840 1.014
5.17e-04
## 71   -5.20e-03  1.15e-02 -3.40e-03  7.49e-03 -4.59e-03  0.021919 1.009
9.62e-05
## 72   -3.55e-02  3.45e-02 -1.81e-02 -2.23e-02  5.32e-02 -0.065010 1.013
8.46e-04
## 73   -4.41e-03 -1.20e-02 -1.88e-03  1.47e-02  6.73e-03  0.019831 1.011
7.87e-05
## 74    1.51e-02 -1.89e-02 -2.43e-03  3.17e-02 -3.17e-02  0.048440 1.009
4.70e-04
## 75    9.39e-02 -2.31e-02 -2.85e-02 -2.66e-02 -7.49e-02  0.097846 1.010
1.91e-03
## 76   -5.27e-04  9.12e-03  1.37e-02 -2.27e-02  1.02e-02  0.030133 1.014
1.82e-04
## 77   -4.62e-02 -3.50e-02  2.97e-02  4.56e-02  3.30e-02 -0.073936 1.009
1.09e-03
## 78   -4.69e-03  7.79e-03 -7.65e-03  4.00e-03  2.90e-03  0.014566 1.011
4.25e-05
## 79    5.31e-03 -5.14e-03  9.08e-03 -4.02e-02  2.07e-02 -0.063868 1.002
8.16e-04
## 80   -4.16e-03  6.15e-04  3.20e-03  2.45e-03  2.32e-03  0.005627 1.011
6.34e-06
## 81   -3.96e-03  3.52e-03 -1.71e-03  3.81e-04  5.16e-03  0.007665 1.008
1.18e-05
## 82   -3.61e-03  2.82e-03 -1.01e-02  9.01e-03  2.86e-03  0.017372 1.009
6.04e-05
## 83    1.36e-02 -1.35e-02  9.96e-03 -2.28e-02  1.24e-02  0.041403 1.012
3.43e-04
## 84   -1.56e-03  1.67e-03 -1.57e-03  7.30e-04  1.57e-03  0.003197 1.012
2.05e-06
## 85    2.29e-02 -1.22e-02 -1.72e-02 -2.44e-02  1.51e-02  0.045802 1.012
4.20e-04
## 86    8.98e-04  7.98e-04  7.59e-03 -5.01e-03  2.05e-03  0.015632 1.006
4.89e-05
## 87    5.24e-02 -3.29e-02 -2.18e-02 -4.35e-03 -4.97e-02 -0.079244 0.998
1.25e-03
## 88   -3.03e-03  4.17e-03 -6.09e-03  3.68e-04  5.96e-03  0.010209 1.009
2.09e-05
## 89   -1.56e-03  1.67e-03 -1.57e-03  7.30e-04  1.57e-03  0.003197 1.012
2.05e-06
## 90   -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 91   -1.23e-02 -4.62e-03  9.56e-03  1.48e-02 -8.18e-03 -0.040388 1.000
3.26e-04
```


## 92	-3.80e-03	-2.15e-02	2.84e-02	4.54e-03	7.08e-03	0.038569	1.015
	2.98e-04						
## 93	3.89e-02	-3.65e-02	1.88e-02	-1.16e-02	-2.16e-02	0.056986	1.008
	6.50e-04						
## 94	8.64e-03	-5.07e-02	5.22e-02	2.88e-02	-2.32e-02	0.074718	1.017
	1.12e-03						
## 95	1.50e-03	1.91e-02	-1.48e-02	-3.00e-03	-3.97e-03	0.027923	1.010
	1.56e-04						
## 96	1.58e-02	6.20e-05	-3.63e-03	-6.57e-03	-1.11e-02	0.022507	1.005
	1.01e-04						
## 97	3.20e-02	-2.52e-02	-1.96e-02	-1.08e-02	1.15e-03	0.045648	1.009
	4.17e-04						
## 98	9.39e-02	-2.31e-02	-2.85e-02	-2.66e-02	-7.49e-02	0.097846	1.010
	1.91e-03						
## 99	5.96e-02	-2.10e-01	1.28e-01	1.21e-01	-1.35e-01	-0.277291	0.970
	1.53e-02						
## 100	1.98e-02	9.50e-03	-2.10e-02	3.95e-03	-2.56e-02	0.042155	1.008
	3.56e-04						
## 101	-4.66e-03	2.92e-03	1.94e-03	3.86e-04	4.42e-03	0.007039	1.008
	9.92e-06						
## 102	2.06e-02	-2.66e-02	1.37e-02	-9.95e-03	-1.28e-03	0.041732	1.008
	3.49e-04						
## 103	1.81e-02	-1.28e-02	-3.23e-03	-2.36e-02	1.37e-02	0.041419	1.011
	3.43e-04						
## 104	1.23e-02	1.72e-02	-4.05e-03	1.62e-02	-4.36e-02	0.060176	1.012
	7.25e-04						
## 105	-1.47e-02	-1.65e-02	-2.10e-02	4.73e-02	-7.41e-03	-0.063014	1.002
	7.94e-04						
## 106	2.06e-02	-2.66e-02	1.37e-02	-9.95e-03	-1.28e-03	0.041732	1.008
	3.49e-04						
## 107	-5.15e-03	2.39e-03	4.87e-03	3.83e-04	3.73e-03	0.007783	1.010
	1.21e-05						
## 108	3.20e-02	-2.52e-02	-1.96e-02	-1.08e-02	1.15e-03	0.045648	1.009
	4.17e-04						
## 109	-3.34e-02	1.34e-02	6.69e-03	3.07e-02	-4.36e-03	-0.054306	1.003
	5.90e-04						
## 110	1.45e-03	-7.25e-03	-2.69e-03	-5.00e-04	9.79e-03	0.017448	1.007
	6.09e-05						
## 111	-9.35e-03	3.86e-03	1.85e-02	1.29e-03	1.04e-03	0.021244	1.012
	9.03e-05						
## 112	-2.77e-03	1.02e-02	5.44e-03	-8.16e-03	3.07e-03	0.016266	1.007
	5.30e-05						
## 113	8.39e-03	1.47e-02	-4.23e-03	-1.19e-02	-7.43e-03	0.024401	1.006
	1.19e-04						
## 114	3.10e-02	-5.96e-02	2.89e-02	-1.14e-02	-2.84e-02	-0.117592	0.969
	2.75e-03						
## 115	8.86e-03	-1.68e-02	-1.54e-02	1.35e-02	1.53e-03	0.028619	1.008
	1.64e-04						
## 116	-1.22e-03	1.03e-03	-3.43e-04	4.80e-04	9.68e-04	0.001834	1.011
	6.73e-07						

## 117	1.45e-03	-7.25e-03	-2.69e-03	-5.00e-04	9.79e-03	0.017448	1.007
6.09e-05							
## 118	9.65e-03	-3.12e-02	-1.98e-03	3.43e-02	-1.52e-02	0.044275	1.010
3.92e-04							
## 119	1.83e-02	-3.14e-02	-2.23e-03	7.10e-03	-9.18e-04	0.037119	1.008
2.76e-04							
## 120	-2.23e-02	-1.26e-02	6.01e-03	-6.35e-03	4.11e-02	-0.056268	1.004
6.33e-04							
## 121	4.69e-04	1.23e-02	-9.44e-03	-1.34e-02	9.77e-03	0.020484	1.013
8.40e-05							
## 122	-2.51e-03	4.54e-02	-2.43e-02	-3.35e-02	8.02e-04	-0.063478	1.002
8.06e-04							
## 123	5.14e-03	1.13e-02	-3.72e-03	-2.48e-02	1.24e-02	0.029342	1.012
1.72e-04							
## 124	-3.63e-03	1.44e-03	4.16e-03	-3.38e-03	7.73e-03	0.012219	1.007
2.99e-05							
## 125	2.05e-03	6.57e-02	-5.78e-02	-1.40e-02	-2.48e-02	-0.100848	1.006
2.03e-03							
## 126	5.75e-03	6.45e-03	8.21e-03	-1.85e-02	2.90e-03	0.024694	1.007
1.22e-04							
## 127	7.08e-03	-6.52e-02	1.06e-01	-1.05e-02	-3.40e-02	-0.155389	0.970
4.80e-03							
## 128	1.03e-02	1.28e-02	-2.33e-02	-2.05e-02	-4.40e-03	-0.048995	1.000
4.80e-04							
## 129	-1.56e-03	1.67e-03	-1.57e-03	7.30e-04	1.57e-03	0.003197	1.012
2.05e-06							
## 130	-2.42e-03	2.69e-03	6.65e-04	-4.94e-04	1.99e-03	0.003719	1.010
2.77e-06							
## 131	-2.78e-02	8.29e-03	4.21e-02	3.70e-02	-3.86e-02	-0.082512	1.003
1.36e-03							
## 132	2.98e-02	-1.01e-02	-2.20e-02	1.33e-02	-3.18e-02	0.047217	1.007
4.46e-04							
## 133	3.21e-03	-2.55e-03	-1.37e-02	6.34e-03	2.96e-03	0.019473	1.007
7.59e-05							
## 134	3.05e-02	-5.84e-03	3.50e-02	-4.03e-02	-1.75e-02	0.063916	1.011
8.17e-04							
## 135	4.12e-03	1.33e-02	8.99e-03	-1.15e-02	-8.19e-03	0.025059	1.007
1.26e-04							
## 136	4.44e-03	-6.84e-03	-1.23e-02	-6.32e-04	1.09e-02	0.021763	1.008
9.48e-05							
## 137	-9.80e-04	6.63e-03	8.39e-03	2.49e-03	-8.15e-03	0.020565	1.006
8.47e-05							
## 138	-7.36e-03	1.55e-03	4.27e-03	8.27e-03	1.60e-03	0.013447	1.008
3.62e-05							
## 139	7.47e-02	-2.65e-02	2.65e-02	-2.53e-02	-7.68e-02	0.094898	1.010
1.80e-03							
## 140	-6.86e-03	6.03e-03	2.56e-03	3.56e-03	1.83e-03	0.010979	1.009
2.41e-05							
## 141	-5.21e-05	-3.22e-03	-2.98e-03	6.23e-03	2.11e-03	0.013714	1.006
3.76e-05							

```
## 142 -1.84e-02  1.47e-01 -5.89e-02 -3.16e-02 -6.30e-02 -0.200277 0.975
7.97e-03
## 143 -7.77e-04  7.16e-03 -1.16e-02  1.15e-03  3.73e-03  0.017067 1.008
5.83e-05
## 144 -3.24e-03  6.24e-03 -3.02e-03  1.19e-03  2.98e-03  0.012303 1.006
3.03e-05
## 145 -2.04e-03 -6.18e-04 -8.60e-03  3.48e-03  7.90e-03  0.013949 1.009
3.90e-05
## 146 -1.14e-01 -2.89e-01  2.28e-01  3.32e-01 -8.95e-02 -0.466385 0.854
4.21e-02
## 147 -5.89e-03  6.88e-03 -2.18e-03  3.78e-03  2.34e-03  0.011729 1.009
2.75e-05
## 148 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 149  2.53e-02 -4.81e-04 -5.52e-02 -4.19e-02  2.59e-02 -0.085128 1.004
1.45e-03
## 150 -3.03e-01  1.51e-01 -1.01e-01  1.66e-01  2.04e-01 -0.373473 0.948
2.75e-02
## 151  1.45e-03 -7.25e-03 -2.69e-03 -5.00e-04  9.79e-03  0.017448 1.007
6.09e-05
## 152  1.40e-02  8.74e-03 -1.68e-02 -2.00e-02  4.95e-03  0.029906 1.008
1.79e-04
## 153 -4.80e-03  1.12e-02 -2.73e-03 -1.91e-03  3.18e-03  0.013687 1.009
3.75e-05
## 154 -5.27e-02 -1.80e-01  3.57e-02  2.53e-02  1.63e-01 -0.301064 0.929
1.78e-02
## 155  1.81e-02 -1.28e-02 -3.23e-03 -2.36e-02  1.37e-02  0.041419 1.011
3.43e-04
## 156  4.12e-03  1.33e-02  8.99e-03 -1.15e-02 -8.19e-03  0.025059 1.007
1.26e-04
## 157 -3.86e-03 -7.94e-03  1.43e-02 -2.63e-04  7.80e-03  0.021416 1.010
9.18e-05
## 158 -7.52e-03  4.59e-03  1.20e-02  1.26e-03  1.63e-03  0.016224 1.008
5.27e-05
## 159 -5.59e-03  2.16e-03 -2.53e-03  8.64e-03  2.20e-03  0.013681 1.008
3.75e-05
## 160 -5.15e-03  2.39e-03  4.87e-03  3.83e-04  3.73e-03  0.007783 1.010
1.21e-05
## 161  5.14e-03  1.13e-02 -3.72e-03 -2.48e-02  1.24e-02  0.029342 1.012
1.72e-04
## 162 -1.91e-03 -1.01e-02 -2.27e-03  8.26e-03  8.19e-03  0.017447 1.008
6.09e-05
## 163  8.95e-03  2.01e-02 -8.19e-02 -2.05e-02  2.90e-02 -0.093344 1.007
1.74e-03
## 164  1.38e-02 -5.71e-03 -1.81e-02  9.61e-03 -1.03e-02  0.028908 1.007
1.67e-04
## 165 -3.24e-03  6.24e-03 -3.02e-03  1.19e-03  2.98e-03  0.012303 1.006
3.03e-05
## 166  2.06e-02  2.70e-02 -4.54e-03 -3.26e-03 -4.52e-02  0.061561 1.011
7.58e-04
```

```
## 167  5.73e-02 -2.73e-02 -2.16e-03 -3.65e-02 -2.04e-02  0.067122 1.009
9.01e-04
## 168 -2.90e-02 -1.09e-02  2.26e-02  3.49e-02 -1.94e-02 -0.095589 0.971
1.82e-03
## 169 -7.77e-04  7.16e-03 -1.16e-02  1.15e-03  3.73e-03  0.017067 1.008
5.83e-05
## 170  4.44e-03 -6.84e-03 -1.23e-02 -6.32e-04  1.09e-02  0.021763 1.008
9.48e-05
## 171 -1.42e-02  3.00e-02 -2.30e-02 -1.55e-04 -8.21e-04 -0.051969 1.002
5.40e-04
## 172  3.21e-03 -2.55e-03 -1.37e-02  6.34e-03  2.96e-03  0.019473 1.007
7.59e-05
## 173  2.43e-03 -4.00e-03  6.83e-03 -1.11e-02  1.04e-02  0.022775 1.008
1.04e-04
## 174  5.25e-02 -2.57e-02 -2.42e-02  1.75e-03 -3.96e-02  0.059418 1.007
7.06e-04
## 175  8.76e-02 -5.23e-02  9.10e-02 -4.56e-02 -9.23e-02  0.152228 1.020
4.63e-03
## 176  1.00e-02 -2.10e-02 -1.41e-02  4.62e-03  1.15e-02  0.032841 1.010
2.16e-04
## 177 -6.94e-03  4.05e-04  1.57e-02 -2.89e-03  6.05e-03  0.018744 1.012
7.03e-05
## 178  9.29e-03 -1.41e-02  2.25e-02 -2.21e-02  1.12e-02  0.045127 1.014
4.08e-04
## 179 -3.37e-02  4.34e-02 -2.24e-02  1.63e-02  2.09e-03 -0.068213 1.006
9.31e-04
## 180 -4.76e-02  1.89e-02 -5.48e-04  1.93e-02  3.54e-02 -0.050443 1.017
5.09e-04
## 181 -2.78e-02  8.29e-03  4.21e-02  3.70e-02 -3.86e-02 -0.082512 1.003
1.36e-03
## 182 -2.77e-03  1.02e-02  5.44e-03 -8.16e-03  3.07e-03  0.016266 1.007
5.30e-05
## 183 -4.66e-03  2.92e-03  1.94e-03  3.86e-04  4.42e-03  0.007039 1.008
9.92e-06
## 184  9.00e-03 -6.64e-03 -3.19e-03  9.54e-03 -1.11e-02  0.022177 1.005
9.84e-05
## 185  5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02  1.15e-02  0.022742 1.008
1.04e-04
## 186 -1.28e-01  4.26e-03  7.61e-02  2.53e-02  1.05e-01 -0.157005 0.982
4.91e-03
## 187 -2.33e-02  4.17e-02 -4.39e-02 -2.72e-02  4.64e-02 -0.075359 1.010
1.14e-03
## 188  2.65e-02 -4.93e-02 -1.12e-03  2.98e-02 -2.03e-02  0.056383 1.010
6.36e-04
## 189 -4.99e-02  4.94e-03 -5.39e-02  2.89e-02  5.52e-02 -0.114072 0.975
2.59e-03
## 190  2.89e-02 -2.04e-02  1.44e-02 -2.94e-02 -4.34e-04  0.052397 1.010
5.49e-04
## 191 -3.34e-02  1.34e-02  6.69e-03  3.07e-02 -4.36e-03 -0.054306 1.003
5.90e-04
```

## 192	6.10e-03	-4.48e-02	5.56e-02	4.32e-02	-4.10e-02	0.083691	1.0181.40e-03
## 193	-3.61e-03	2.82e-03	-1.01e-02	9.01e-03	2.86e-03	0.017372	1.0096.04e-05
## 194	9.29e-03	-1.41e-02	2.25e-02	-2.21e-02	1.12e-02	0.045127	1.0144.08e-04
## 195	2.62e-02	-2.59e-02	-2.60e-03	-1.04e-02	-9.09e-05	0.040362	1.0083.26e-04
## 196	3.39e-02	-1.16e-02	-3.11e-03	-1.95e-02	-1.53e-02	0.039106	1.0063.06e-04
## 197	4.80e-03	-1.72e-02	-2.60e-03	1.32e-02	5.80e-04	0.023571	1.0071.11e-04
## 198	4.28e-02	6.78e-03	-3.67e-03	-3.05e-02	-3.42e-02	0.053068	1.0075.63e-04
## 199	-5.39e-03	8.97e-04	1.03e-02	-3.13e-03	6.86e-03	0.014953	1.0094.48e-05
## 200	1.99e-02	2.44e-02	-1.99e-02	-2.97e-02	-6.36e-03	0.042436	1.0103.60e-04
## 201	-9.75e-03	7.75e-03	4.15e-02	-1.93e-02	-9.01e-03	-0.059213	1.0017.01e-04
## 202	-7.81e-03	-1.17e-02	1.08e-02	1.33e-02	5.12e-03	0.020754	1.0138.62e-05
## 203	1.87e-02	3.39e-02	-2.13e-02	-2.12e-02	-2.08e-02	0.051338	1.0115.27e-04
## 204	-3.96e-03	3.52e-03	-1.71e-03	3.81e-04	5.16e-03	0.007665	1.0081.18e-05
## 205	-1.16e-03	5.28e-03	4.75e-03	-1.24e-02	9.43e-03	0.018435	1.0096.80e-05
## 206	-2.64e-03	-1.80e-02	2.08e-02	1.27e-02	-1.15e-03	0.030312	1.0091.84e-04
## 207	-2.85e-03	1.65e-02	-3.32e-03	-9.98e-03	4.14e-03	0.018884	1.0107.14e-05
## 208	1.91e-02	-2.00e-02	1.47e-02	9.25e-04	-1.63e-02	0.034418	1.0062.37e-04
## 209	-5.21e-05	-3.22e-03	-2.98e-03	6.23e-03	2.11e-03	0.013714	1.0063.76e-05
## 210	-3.10e-03	1.00e-02	3.02e-03	-1.17e-02	7.81e-03	0.016367	1.0115.36e-05
## 211	-1.58e-03	1.19e-03	1.66e-03	-2.22e-04	8.60e-04	0.002421	1.0151.17e-06
## 212	-1.56e-03	1.67e-03	-1.57e-03	7.30e-04	1.57e-03	0.003197	1.0122.05e-06
## 213	2.06e-02	-2.66e-02	1.37e-02	-9.95e-03	-1.28e-03	0.041732	1.0083.49e-04
## 214	-3.93e-03	1.24e-03	-1.19e-03	3.26e-03	3.55e-03	0.006388	1.0098.17e-06
## 215	-5.33e-03	2.67e-02	9.92e-03	1.84e-03	-3.60e-02	-0.064241	1.0018.25e-04
## 216	-3.93e-01	2.02e-01	1.60e-03	-2.04e-02	4.15e-01	-0.475970	0.8834.41e-02

## 217	4.13e-02	-1.85e-02	-2.12e-02	-3.11e-02	2.20e-03	0.056625	1.010
6.42e-04							
## 218	6.83e-03	8.93e-03	-1.66e-02	2.34e-03	-6.78e-03	0.025936	1.007
1.35e-04							
## 219	2.25e-02	-2.49e-02	-1.93e-02	1.89e-02	-1.44e-02	0.040867	1.008
3.34e-04							
## 220	3.66e-02	4.01e-02	-2.56e-02	-2.59e-02	-4.62e-02	0.075453	1.013
1.14e-03							
## 221	1.70e-02	2.99e-02	1.02e-02	-4.68e-02	-7.96e-03	0.053597	1.013
5.75e-04							
## 222	-6.03e-03	4.46e-03	9.85e-03	-3.67e-03	4.54e-03	0.012949	1.014
3.36e-05							
## 223	-5.00e-03	-3.09e-03	-1.70e-03	7.99e-03	5.47e-03	0.011442	1.009
2.62e-05							
## 224	1.73e-02	-1.24e-02	1.57e-02	1.32e-02	-3.33e-02	0.043103	1.007
3.72e-04							
## 225	-1.91e-03	-1.01e-02	-2.27e-03	8.26e-03	8.19e-03	0.017447	1.008
6.09e-05							
## 226	2.43e-03	-4.00e-03	6.83e-03	-1.11e-02	1.04e-02	0.022775	1.008
1.04e-04							
## 227	-1.58e-03	1.19e-03	1.66e-03	-2.22e-04	8.60e-04	0.002421	1.015
1.17e-06							
## 228	7.79e-03	-8.60e-03	2.43e-02	-1.47e-02	1.13e-04	0.035833	1.009
2.57e-04							
## 229	-2.62e-03	6.21e-03	-7.85e-02	1.10e-02	2.64e-02	-0.088340	1.007
1.56e-03							
## 230	-6.88e-03	-1.90e-02	9.14e-03	-5.92e-03	1.83e-02	-0.048241	1.001
4.65e-04							
## 231	-4.42e-03	-3.24e-02	4.17e-02	3.26e-02	-1.74e-02	0.058766	1.016
6.91e-04							
## 232	-3.76e-03	-1.02e-03	-2.16e-03	3.34e-03	7.00e-03	0.010554	1.007
2.23e-05							
## 233	4.61e-02	-3.56e-02	-1.78e-03	-1.20e-02	-2.04e-02	0.054747	1.007
6.00e-04							
## 234	1.38e-02	-2.66e-02	1.29e-02	-5.09e-03	-1.27e-02	-0.052459	0.999
5.50e-04							
## 235	6.53e-02	-3.03e-02	-6.18e-02	-4.86e-03	-4.73e-02	-0.098727	1.000
1.95e-03							
## 236	1.00e-02	-2.10e-02	-1.41e-02	4.62e-03	1.15e-02	0.032841	1.010
2.16e-04							
## 237	5.13e-02	6.37e-02	-1.16e-01	-1.02e-01	-2.19e-02	-0.243964	0.849
1.15e-02							
## 238	2.81e-03	7.75e-03	-3.73e-03	2.42e-03	-7.48e-03	0.019693	1.006
7.76e-05							
## 239	4.16e-02	-3.43e-02	-2.28e-02	2.47e-02	-3.88e-02	0.061696	1.009
7.62e-04							
## 240	4.04e-03	1.75e-02	-4.11e-03	-2.08e-02	4.90e-03	0.026003	1.009
1.35e-04							
## 241	-1.41e-01	3.62e-02	7.76e-02	7.00e-02	4.96e-02	-0.158621	0.981
5.01e-03							

```
## 242  3.11e-02 -1.82e-02 -2.08e-02  5.40e-04 -1.44e-02  0.038560 1.006
2.98e-04
## 243  3.07e-02  5.96e-02  2.14e-02 -1.30e-01 -1.18e-02 -0.158913 0.971
5.02e-03
## 244 -2.38e-03 -1.21e-02 -9.32e-03  1.54e-02  7.62e-03  0.022794 1.012
1.04e-04
## 245 -1.22e-03  1.03e-03 -3.43e-04  4.80e-04  9.68e-04  0.001834 1.011
6.73e-07
## 246  6.22e-03 -1.32e-02  1.01e-02  6.79e-05  3.60e-04  0.022806 1.006
1.04e-04
## 247 -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 248 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 249 -3.03e-03  4.17e-03 -6.09e-03  3.68e-04  5.96e-03  0.010209 1.009
2.09e-05
## 250 -6.81e-03 -3.24e-03  6.83e-03  6.90e-03  4.05e-03  0.011810 1.011
2.79e-05
## 251  9.00e-03 -6.64e-03 -3.19e-03  9.54e-03 -1.11e-02  0.022177 1.005
9.84e-05
## 252 -1.22e-03  1.03e-03 -3.43e-04  4.80e-04  9.68e-04  0.001834 1.011
6.73e-07
## 253 -1.91e-03 -1.01e-02 -2.27e-03  8.26e-03  8.19e-03  0.017447 1.008
6.09e-05
## 254  6.35e-02 -5.12e-03 -2.68e-02 -8.30e-03 -6.35e-02  0.077057 1.009
1.19e-03
## 255 -7.72e-03  1.04e-02  5.58e-03  7.30e-03 -5.06e-03  0.021537 1.009
9.29e-05
## 256 -6.20e-03 -8.22e-03  2.19e-02 -1.58e-04  6.89e-03  0.026655 1.013
1.42e-04
## 257  4.02e-03 -2.07e-02  3.17e-02  3.09e-02 -3.30e-02  0.056290 1.012
6.34e-04
## 258 -6.26e-03  1.01e-02  3.10e-03 -1.73e-03  2.57e-03  0.012978 1.009
3.37e-05
## 259  1.81e-02 -1.28e-02 -3.23e-03 -2.36e-02  1.37e-02  0.041419 1.011
3.43e-04
## 260 -9.71e-03 -8.62e-03 -8.21e-02  5.42e-02 -2.22e-02 -0.168966 0.921
5.61e-03
## 261 -4.99e-02  4.94e-03 -5.39e-02  2.89e-02  5.52e-02 -0.114072 0.975
2.59e-03
## 262  7.14e-03  3.14e-04 -3.39e-03  2.07e-02 -2.54e-02  0.039296 1.008
3.09e-04
## 263 -3.40e-03  4.49e-03  1.20e-02 -1.17e-02  8.46e-03  0.020791 1.011
8.65e-05
## 264 -5.89e-03  6.88e-03 -2.18e-03  3.78e-03  2.34e-03  0.011729 1.009
2.75e-05
## 265  5.46e-02  6.56e-02 -5.55e-02 -1.31e-01 -6.18e-03 -0.167725 0.971
5.59e-03
## 266  1.51e-02 -1.89e-02 -2.43e-03  3.17e-02 -3.17e-02  0.048440 1.009
4.70e-04
```

```
## 267 -3.08e-03 -3.83e-03 6.96e-03 6.13e-03 1.32e-03 0.014671 1.006
4.31e-05
## 268 8.27e-04 1.61e-02 6.00e-03 -2.00e-02 4.00e-03 0.025488 1.009
1.30e-04
## 269 1.51e-02 -1.89e-02 -2.43e-03 3.17e-02 -3.17e-02 0.048440 1.009
4.70e-04
## 270 5.34e-04 2.70e-03 -1.02e-02 -3.93e-03 9.67e-03 0.016325 1.008
5.33e-05
## 271 -3.76e-03 -1.02e-03 -2.16e-03 3.34e-03 7.00e-03 0.010554 1.007
2.23e-05
## 272 -4.66e-03 2.92e-03 1.94e-03 3.86e-04 4.42e-03 0.007039 1.008
9.92e-06
## 273 -5.95e-04 -4.57e-03 1.61e-02 -1.06e-02 9.33e-03 0.026437 1.010
1.40e-04
## 274 -3.24e-03 6.24e-03 -3.02e-03 1.19e-03 2.98e-03 0.012303 1.006
3.03e-05
## 275 -4.74e-03 1.63e-02 6.14e-03 -2.55e-03 -5.15e-03 0.022896 1.008
1.05e-04
## 276 8.98e-04 7.98e-04 7.59e-03 -5.01e-03 2.05e-03 0.015632 1.006
4.89e-05
## 277 -6.48e-04 4.45e-04 1.49e-04 2.22e-04 4.18e-04 0.000833 1.011
1.39e-07
## 278 6.00e-04 -9.96e-03 -1.08e-02 8.55e-03 9.19e-03 0.021077 1.009
8.89e-05
## 279 -5.48e-03 -7.73e-04 2.76e-02 -4.46e-03 4.23e-04 0.030457 1.011
1.86e-04
## 280 2.81e-03 7.75e-03 -3.73e-03 2.42e-03 -7.48e-03 0.019693 1.006
7.76e-05
## 281 -1.43e-03 1.11e-02 -2.84e-03 -1.25e-02 8.76e-03 0.017352 1.011
6.03e-05
## 282 4.04e-03 1.75e-02 -4.11e-03 -2.08e-02 4.90e-03 0.026003 1.009
1.35e-04
## 283 6.73e-02 -5.48e-02 -2.46e-02 1.33e-02 -4.73e-02 0.080361 1.009
1.29e-03
## 284 -3.24e-03 6.24e-03 -3.02e-03 1.19e-03 2.98e-03 0.012303 1.006
3.03e-05
## 285 -5.97e-01 2.08e-01 1.37e-01 2.26e-01 4.01e-01 -0.600675 0.895
7.04e-02
## 286 -3.76e-03 -2.93e-03 -7.06e-03 8.54e-03 6.27e-03 0.014078 1.010
3.97e-05
## 287 -5.21e-05 -3.22e-03 -2.98e-03 6.23e-03 2.11e-03 0.013714 1.006
3.76e-05
## 288 3.21e-03 -2.55e-03 -1.37e-02 6.34e-03 2.96e-03 0.019473 1.007
7.59e-05
## 289 3.84e-03 3.12e-02 7.22e-03 -2.95e-02 -5.00e-03 0.040580 1.013
3.30e-04
## 290 -3.24e-03 6.24e-03 -3.02e-03 1.19e-03 2.98e-03 0.012303 1.006
3.03e-05
## 291 3.14e-03 -2.89e-02 4.70e-02 -4.64e-03 -1.51e-02 -0.068916 1.001
9.49e-04
```



```
## 292  1.96e-02 -7.80e-03 -2.25e-02  1.83e-02 -4.18e-02 -0.066060 0.999
8.72e-04
## 293 -5.89e-03  6.88e-03 -2.18e-03  3.78e-03  2.34e-03  0.011729 1.009
2.75e-05
## 294  1.08e-02  1.49e-03 -3.64e-03 -2.52e-02  1.34e-02  0.033240 1.011
2.21e-04
## 295  1.05e-02 -1.25e-02 -3.00e-03 -8.75e-05  1.35e-03  0.021221 1.006
9.01e-05
## 296 -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 297 -2.45e-03  1.27e-02 -1.31e-02  7.69e-03 -4.08e-03  0.026087 1.010
1.36e-04
## 298  4.05e-02 -1.04e-02 -2.23e-02 -2.01e-02 -1.43e-02  0.045614 1.007
4.16e-04
## 299 -1.73e-03  1.76e-02 -3.94e-03 -2.77e-03 -4.58e-03  0.023197 1.008
1.08e-04
## 300  7.49e-03  1.89e-02 -1.50e-02 -2.17e-02  5.86e-03  0.030535 1.011
1.87e-04
## 301  1.02e-02 -2.78e-02  4.44e-02 -9.20e-03 -3.51e-03  0.058344 1.014
6.81e-04
## 302 -3.96e-02  2.81e-02  7.07e-03  5.17e-02 -3.00e-02 -0.090614 1.007
1.64e-03
## 303  1.46e-04 -8.34e-05 -8.95e-05 -4.45e-05 -7.81e-05 -0.000185 1.012
6.85e-09
## 304  8.24e-03  4.37e-02  9.81e-03 -3.57e-02 -3.54e-02 -0.075335 1.001
1.13e-03
## 305  4.80e-03 -1.72e-02 -2.60e-03  1.32e-02  5.80e-04  0.023571 1.007
1.11e-04
## 306  1.30e-03  6.13e-03 -3.16e-03 -1.30e-02  1.05e-02  0.018910 1.009
7.16e-05
## 307 -4.79e-03  1.52e-02  3.62e-03 -9.39e-03  3.44e-03  0.018006 1.010
6.49e-05
## 308  3.87e-03 -1.82e-02  2.06e-02 -7.55e-03  9.54e-03  0.036678 1.012
2.69e-04
## 309 -1.73e-03  1.76e-02 -3.94e-03 -2.77e-03 -4.58e-03  0.023197 1.008
1.08e-04
## 310 -3.95e-05  1.13e-02 -3.55e-03 -8.60e-03  3.87e-03  0.016348 1.007
5.35e-05
## 311 -7.77e-04  7.16e-03 -1.16e-02  1.15e-03  3.73e-03  0.017067 1.008
5.83e-05
## 312  1.17e-03 -5.60e-04 -1.06e-03 -3.21e-04 -5.23e-04 -0.001564 1.015
4.90e-07
## 313 -1.26e-01  9.96e-02  1.41e-01  2.11e-03 -2.01e-02 -0.229643 0.926
1.04e-02
## 314  2.34e-02 -1.13e-02 -2.81e-03  1.33e-02 -3.26e-02  0.041031 1.006
3.37e-04
## 315  1.46e-04 -8.34e-05 -8.95e-05 -4.45e-05 -7.81e-05 -0.000185 1.012
6.85e-09
## 316  4.38e-02 -7.10e-02 -2.19e-02  6.07e-02 -4.57e-02  0.094625 1.016
1.79e-03
```

```
## 317  1.29e-02  1.61e-02 -1.82e-02 -1.24e-02 -6.62e-03  0.030693 1.008
1.89e-04
## 318 -2.94e-03  7.04e-03 -1.54e-03 -4.14e-03  4.44e-03  0.008623 1.012
1.49e-05
## 319  6.13e-02 -3.75e-02  2.57e-02  3.90e-03 -7.51e-02  0.087790 1.010
1.54e-03
## 320 -7.36e-03  1.55e-03  4.27e-03  8.27e-03  1.60e-03  0.013447 1.008
3.62e-05
## 321 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 322 -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 323  5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02  1.15e-02  0.022742 1.008
1.04e-04
## 324  3.52e-03 -2.08e-02 -1.39e-02  2.49e-02  7.74e-04  0.034005 1.011
2.31e-04
## 325 -1.91e-03  1.85e-03 -3.26e-03  1.44e-02 -7.44e-03  0.022948 1.007
1.05e-04
## 326 -7.52e-03  4.59e-03  1.20e-02  1.26e-03  1.63e-03  0.016224 1.008
5.27e-05
## 327 -3.66e-03 -7.10e-03 -2.55e-03  1.54e-02  1.40e-03  0.018923 1.008
7.17e-05
## 328  3.03e-03 -1.23e-02 -2.79e-03  2.33e-02 -1.10e-02  0.029807 1.008
1.78e-04
## 329 -1.16e-03  5.28e-03  4.75e-03 -1.24e-02  9.43e-03  0.018435 1.009
6.80e-05
## 330 -3.24e-03  6.24e-03 -3.02e-03  1.19e-03  2.98e-03  0.012303 1.006
3.03e-05
## 331 -3.12e-03  6.80e-03 -2.26e-03 -4.86e-03  6.89e-03  0.010968 1.009
2.41e-05
## 332  1.30e-03  6.13e-03 -3.16e-03 -1.30e-02  1.05e-02  0.018910 1.009
7.16e-05
## 333 -3.77e-02  3.19e-03  3.72e-03  8.57e-03  3.85e-02 -0.048136 1.005
4.64e-04
## 334 -3.66e-03 -7.10e-03 -2.55e-03  1.54e-02  1.40e-03  0.018923 1.008
7.17e-05
## 335  2.76e-02 -1.27e-02  1.54e-02 -1.89e-02 -1.64e-02  0.041213 1.007
3.40e-04
## 336 -5.49e-03  5.39e-03  4.86e-03  1.23e-03  2.28e-03  0.012387 1.007
3.07e-05
## 337  7.37e-03 -1.17e-02 -1.66e-02  2.38e-02 -1.03e-02  0.034762 1.009
2.42e-04
## 338  6.32e-03  2.65e-02 -1.64e-02 -1.61e-02 -3.75e-03  0.034602 1.011
2.40e-04
## 339 -3.63e-03  1.44e-03  4.16e-03 -3.38e-03  7.73e-03  0.012219 1.007
2.99e-05
## 340  5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02  1.15e-02  0.022742 1.008
1.04e-04
## 341  3.89e-02 -3.65e-02  1.88e-02 -1.16e-02 -2.16e-02  0.056986 1.008
6.50e-04
```

```
## 342  8.04e-02 -4.54e-02 -2.60e-02 -1.38e-02 -4.81e-02  0.083949 1.009
1.41e-03
## 343  1.58e-02  6.20e-05 -3.63e-03 -6.57e-03 -1.11e-02  0.022507 1.005
1.01e-04
## 344 -1.07e-02 -8.08e-03  2.20e-02  1.40e-02 -5.34e-04  0.027539 1.014
1.52e-04
## 345  6.12e-05 -3.20e-02  2.78e-02  3.31e-02 -1.67e-02  0.050582 1.013
5.12e-04
## 346  1.38e-02 -2.66e-02  1.29e-02 -5.09e-03 -1.27e-02 -0.052459 0.999
5.50e-04
## 347  4.27e-02 -4.22e-02 -2.16e-02  9.97e-03 -1.93e-02  0.056848 1.009
6.47e-04
## 348 -5.21e-05 -3.22e-03 -2.98e-03  6.23e-03  2.11e-03  0.013714 1.006
3.76e-05
## 349  5.75e-03 -1.47e-02  5.07e-02  1.32e-02 -3.48e-02  0.063820 1.013
8.15e-04
## 350  8.53e-04  1.49e-02 -4.03e-03  1.16e-02 -1.99e-02  0.037172 1.010
2.77e-04
## 351  4.84e-02 -9.31e-02  4.51e-02 -1.78e-02 -4.44e-02 -0.183571 0.917
6.62e-03
## 352 -5.00e-03 -3.09e-03 -1.70e-03  7.99e-03  5.47e-03  0.011442 1.009
2.62e-05
## 353  9.15e-03 -2.73e-03 -1.39e-02 -1.22e-02  1.27e-02  0.027163 1.009
1.48e-04
## 354  2.98e-02 -1.01e-02 -2.20e-02  1.33e-02 -3.18e-02  0.047217 1.007
4.46e-04
## 355 -3.08e-03 -3.83e-03  6.96e-03  6.13e-03  1.32e-03  0.014671 1.006
4.31e-05
## 356  2.25e-02 -2.49e-02 -1.93e-02  1.89e-02 -1.44e-02  0.040867 1.008
3.34e-04
## 357  5.12e-02  2.72e-02 -2.49e-02 -6.35e-02 -4.03e-02 -0.092628 1.000
1.71e-03
## 358  1.40e-02  8.74e-03 -1.68e-02 -2.00e-02  4.95e-03  0.029906 1.008
1.79e-04
## 359  5.40e-02 -9.65e-02 -1.87e-02  5.80e-02 -5.98e-02 -0.121307 1.001
2.94e-03
## 360  7.14e-03  3.14e-04 -3.39e-03  2.07e-02 -2.54e-02  0.039296 1.008
3.09e-04
## 361 -3.49e-03  1.64e-03 -4.48e-03  3.66e-03  4.25e-03  0.008408 1.011
1.42e-05
## 362 -5.42e-03  3.76e-03  1.85e-02 -1.11e-02  7.55e-03  0.024597 1.014
1.21e-04
## 363 -1.31e-03 -7.61e-03  6.18e-03 -3.77e-04  8.76e-03  0.017672 1.008
6.25e-05
## 364  2.67e-03 -2.13e-02  8.55e-03  4.58e-03  9.14e-03  0.029056 1.010
1.69e-04
## 365  1.29e-01 -1.15e-01  5.57e-02 -1.24e-02 -1.68e-01 -0.249827 0.912
1.22e-02
## 366  1.08e-02  1.49e-03 -3.64e-03 -2.52e-02  1.34e-02  0.033240 1.011
2.21e-04
```

```
## 367  8.86e-03 -1.68e-02 -1.54e-02  1.35e-02  1.53e-03  0.028619 1.008
1.64e-04
## 368 -3.76e-03 -2.93e-03 -7.06e-03  8.54e-03  6.27e-03  0.014078 1.010
3.97e-05
## 369 -5.20e-03  1.15e-02 -3.40e-03  7.49e-03 -4.59e-03  0.021919 1.009
9.62e-05
## 370  1.55e-02  3.99e-02  1.09e-02 -3.91e-02 -2.28e-02  0.059112 1.013
6.99e-04
## 371 -6.01e-03 -3.19e-03  2.92e-03  7.45e-03  4.73e-03  0.010868 1.009
2.36e-05
## 372  1.17e-03 -5.60e-04 -1.06e-03 -3.21e-04 -5.23e-04 -0.001564 1.015
4.90e-07
## 373 -3.34e-02  1.34e-02  6.69e-03  3.07e-02 -4.36e-03 -0.054306 1.003
5.90e-04
## 374  1.48e-02 -3.07e-02 -1.79e-02  3.49e-02 -1.44e-02  0.048738 1.011
4.75e-04
## 375 -5.20e-03  1.15e-02 -3.40e-03  7.49e-03 -4.59e-03  0.021919 1.009
9.62e-05
## 376 -5.59e-03  2.16e-03 -2.53e-03  8.64e-03  2.20e-03  0.013681 1.008
3.75e-05
## 377  5.13e-02 -1.58e-02 -2.53e-02  1.75e-02 -6.19e-02  0.075273 1.009
1.13e-03
## 378 -1.31e-03 -7.61e-03  6.18e-03 -3.77e-04  8.76e-03  0.017672 1.008
6.25e-05
## 379 -5.89e-03  6.88e-03 -2.18e-03  3.78e-03  2.34e-03  0.011729 1.009
2.75e-05
## 380 -7.50e-03  9.06e-03  8.22e-03 -1.56e-03  2.02e-03  0.014390 1.011
4.15e-05
## 381 -5.49e-03  5.39e-03  4.86e-03  1.23e-03  2.28e-03  0.012387 1.007
3.07e-05
## 382  5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02  1.15e-02  0.022742 1.008
1.04e-04
## 383  1.52e-02 -3.87e-03  1.67e-02  2.71e-02 -5.24e-02  0.065441 1.011
8.57e-04
## 384  1.45e-03 -7.25e-03 -2.69e-03 -5.00e-04  9.79e-03  0.017448 1.007
6.09e-05
## 385  5.34e-04  2.70e-03 -1.02e-02 -3.93e-03  9.67e-03  0.016325 1.008
5.33e-05
## 386 -2.11e-03  1.91e-03  1.53e-03 -3.54e-04  1.40e-03  0.003110 1.012
1.94e-06
## 387 -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 388  8.53e-04  1.49e-02 -4.03e-03  1.16e-02 -1.99e-02  0.037172 1.010
2.77e-04
## 389 -8.56e-03 -7.80e-03  1.45e-02  1.44e-02  5.97e-05  0.022553 1.010
1.02e-04
## 390  3.26e-02 -2.77e-03 -3.23e-03 -7.43e-03 -3.34e-02  0.041739 1.006
3.49e-04
## 391 -5.44e-02  3.07e-02  1.76e-02  9.35e-03  3.25e-02 -0.056777 1.011
6.45e-04
```

```
## 392 -1.95e-02  1.93e-03 -2.11e-02  1.13e-02  2.16e-02 -0.044564 1.002
3.97e-04
## 393 -9.80e-04  6.63e-03  8.39e-03  2.49e-03 -8.15e-03  0.020565 1.006
8.47e-05
## 394  6.52e-02 -2.61e-02 -2.46e-02 -3.74e-02 -1.91e-02  0.072567 1.010
1.05e-03
## 395  8.15e-03  2.58e-03 -1.52e-02 -5.63e-03  3.89e-03  0.021076 1.007
8.89e-05
## 396  8.15e-03  2.58e-03 -1.52e-02 -5.63e-03  3.89e-03  0.021076 1.007
8.89e-05
## 397  5.95e-03 -2.15e-03  2.62e-02 -5.93e-03 -1.27e-02  0.033752 1.008
2.28e-04
## 398  2.11e-02 -2.15e-02  6.47e-02  1.75e-02 -6.49e-02  0.093057 1.016
1.73e-03
## 399  1.80e-02  6.40e-03  1.23e-02 -2.43e-02 -1.19e-02  0.035308 1.007
2.49e-04
## 400 -2.64e-03 -1.80e-02  2.08e-02  1.27e-02 -1.15e-03  0.030312 1.009
1.84e-04
## 401  1.98e-02  9.50e-03 -2.10e-02  3.95e-03 -2.56e-02  0.042155 1.008
3.56e-04
## 402  9.15e-03 -2.73e-03 -1.39e-02 -1.22e-02  1.27e-02  0.027163 1.009
1.48e-04
## 403 -1.58e-03  1.19e-03  1.66e-03 -2.22e-04  8.60e-04  0.002421 1.015
1.17e-06
## 404 -5.54e-02  1.17e-01 -9.00e-02 -6.05e-04 -3.21e-03 -0.203168 0.924
8.12e-03
## 405 -5.42e-03  1.91e-03  7.09e-03  3.72e-04  3.11e-03  0.008901 1.013
1.59e-05
## 406 -3.11e-02  4.97e-03 -1.95e-02  8.43e-03  4.09e-02 -0.052529 1.005
5.52e-04
## 407 -1.03e-02  5.01e-04  1.58e-02  7.54e-03  5.60e-04  0.019455 1.013
7.58e-05
## 408  8.39e-03  1.47e-02 -4.23e-03 -1.19e-02 -7.43e-03  0.024401 1.006
1.19e-04
## 409  3.90e-02 -1.01e-02  4.49e-02 -7.12e-03 -6.59e-02  0.082451 1.011
1.36e-03
## 410 -3.12e-03  1.24e-02 -9.31e-03 -2.11e-03  3.84e-03  0.017014 1.010
5.80e-05
## 411 -3.96e-03  3.52e-03 -1.71e-03  3.81e-04  5.16e-03  0.007665 1.008
1.18e-05
## 412 -5.00e-03 -3.09e-03 -1.70e-03  7.99e-03  5.47e-03  0.011442 1.009
2.62e-05
## 413  5.34e-04  2.70e-03 -1.02e-02 -3.93e-03  9.67e-03  0.016325 1.008
5.33e-05
## 414 -5.49e-03  5.39e-03  4.86e-03  1.23e-03  2.28e-03  0.012387 1.007
3.07e-05
## 415 -5.22e-03  9.75e-04  7.78e-03  1.41e-02 -8.00e-03  0.023326 1.008
1.09e-04
## 416 -3.76e-03 -2.93e-03 -7.06e-03  8.54e-03  6.27e-03  0.014078 1.010
3.97e-05
```

```
## 417 -4.51e-03 -5.74e-02 4.44e-02 9.02e-03 1.19e-02 -0.084032 1.004
1.41e-03
## 418 8.51e-02 -3.65e-02 -7.07e-04 -4.25e-02 -5.00e-02 0.091459 1.010
1.67e-03
## 419 9.02e-03 -5.23e-03 3.57e-02 2.69e-02 -5.29e-02 0.071727 1.013
1.03e-03
## 420 -1.22e-03 1.03e-03 -3.43e-04 4.80e-04 9.68e-04 0.001834 1.011
6.73e-07
## 421 1.60e-02 -1.71e-02 -1.56e-02 -8.70e-03 1.32e-02 0.036635 1.010
2.69e-04
## 422 -3.42e-03 -2.11e-02 8.72e-03 2.36e-02 -8.67e-04 0.030333 1.010
1.84e-04
## 423 2.83e-02 -9.94e-04 -2.33e-02 2.77e-02 -5.14e-02 0.069679 1.011
9.71e-04
## 424 -3.66e-03 -7.10e-03 -2.55e-03 1.54e-02 1.40e-03 0.018923 1.008
7.17e-05
## 425 8.39e-03 3.00e-02 1.04e-02 -1.98e-02 -2.20e-02 0.045735 1.010
4.19e-04
## 426 -2.04e-03 -6.18e-04 -8.60e-03 3.48e-03 7.90e-03 0.013949 1.009
3.90e-05
## 427 1.60e-02 -1.71e-02 -1.56e-02 -8.70e-03 1.32e-02 0.036635 1.010
2.69e-04
## 428 1.80e-02 6.40e-03 1.23e-02 -2.43e-02 -1.19e-02 0.035308 1.007
2.49e-04
## 429 -7.72e-03 1.04e-02 5.58e-03 7.30e-03 -5.06e-03 0.021537 1.009
9.29e-05
## 430 9.15e-03 -2.73e-03 -1.39e-02 -1.22e-02 1.27e-02 0.027163 1.009
1.48e-04
## 431 -3.08e-03 -3.83e-03 6.96e-03 6.13e-03 1.32e-03 0.014671 1.006
4.31e-05
## 432 -4.62e-02 -3.50e-02 2.97e-02 4.56e-02 3.30e-02 -0.073936 1.009
1.09e-03
## 433 1.08e-02 1.49e-03 -3.64e-03 -2.52e-02 1.34e-02 0.033240 1.011
2.21e-04
## 434 -8.92e-03 9.99e-04 1.04e-02 7.91e-03 1.05e-03 0.015906 1.010
5.07e-05
## 435 1.63e-03 2.77e-03 -1.50e-02 1.48e-02 -6.83e-03 0.027884 1.009
1.56e-04
## 436 1.00e-02 -2.10e-02 -1.41e-02 4.62e-03 1.15e-02 0.032841 1.010
2.16e-04
## 437 -1.19e-02 4.26e-02 6.43e-03 -3.27e-02 -1.43e-03 -0.058285 1.002
6.79e-04
## 438 3.11e-02 -1.82e-02 -2.08e-02 5.40e-04 -1.44e-02 0.038560 1.006
2.98e-04
## 439 4.92e-03 -2.39e-02 -1.27e-02 1.56e-02 9.83e-03 0.033367 1.012
2.23e-04
## 440 6.70e-03 2.29e-02 -4.54e-03 -3.22e-03 -2.07e-02 0.038280 1.009
2.93e-04
## 441 -7.77e-04 7.16e-03 -1.16e-02 1.15e-03 3.73e-03 0.017067 1.008
5.83e-05
```

```
## 442 -3.66e-03 -7.10e-03 -2.55e-03 1.54e-02 1.40e-03 0.018923 1.008
7.17e-05
## 443 -5.59e-03 2.16e-03 -2.53e-03 8.64e-03 2.20e-03 0.013681 1.008
3.75e-05
## 444 -3.54e-02 2.71e-02 3.83e-03 -1.04e-03 2.18e-02 -0.045246 1.003
4.10e-04
## 445 2.36e-02 7.78e-03 -4.11e-03 -2.51e-02 -1.10e-02 0.034073 1.006
2.32e-04
## 446 -1.91e-03 1.85e-03 -3.26e-03 1.44e-02 -7.44e-03 0.022948 1.007
1.05e-04
## 447 -2.69e-02 -3.36e-02 3.80e-02 2.60e-02 1.38e-02 -0.064048 1.003
8.20e-04
## 448 -1.99e-01 8.97e-02 -5.85e-02 8.68e-02 1.65e-01 -0.235944 0.999
1.11e-02
## 449 -3.24e-03 6.24e-03 -3.02e-03 1.19e-03 2.98e-03 0.012303 1.006
3.03e-05
## 450 8.98e-04 7.98e-04 7.59e-03 -5.01e-03 2.05e-03 0.015632 1.006
4.89e-05
## 451 -5.22e-03 9.75e-04 7.78e-03 1.41e-02 -8.00e-03 0.023326 1.008
1.09e-04
## 452 -5.21e-05 -3.22e-03 -2.98e-03 6.23e-03 2.11e-03 0.013714 1.006
3.76e-05
## 453 1.63e-03 2.77e-03 -1.50e-02 1.48e-02 -6.83e-03 0.027884 1.009
1.56e-04
## 454 1.05e-02 -1.25e-02 -3.00e-03 -8.75e-05 1.35e-03 0.021221 1.006
9.01e-05
## 455 -2.45e-03 4.07e-02 4.41e-02 -3.49e-02 -3.76e-02 -0.086152 1.002
1.48e-03
## 456 -3.93e-03 1.24e-03 -1.19e-03 3.26e-03 3.55e-03 0.006388 1.009
8.17e-06
## 457 3.95e-02 -1.32e-03 -2.35e-02 -7.81e-03 -3.26e-02 0.048506 1.007
4.71e-04
## 458 -3.96e-03 3.52e-03 -1.71e-03 3.81e-04 5.16e-03 0.007665 1.008
1.18e-05
## 459 -3.96e-03 1.24e-02 4.67e-02 1.59e-02 -4.48e-02 0.073444 1.018
1.08e-03
## 460 -4.34e-02 1.48e-02 3.97e-03 2.49e-02 1.96e-02 -0.049966 1.005
4.99e-04
## 461 1.40e-02 8.74e-03 -1.68e-02 -2.00e-02 4.95e-03 0.029906 1.008
1.79e-04
## 462 1.35e-02 -2.09e-02 3.13e-02 1.11e-03 -1.73e-02 0.043773 1.008
3.83e-04
## 463 -2.55e-03 -1.29e-02 4.87e-02 1.88e-02 -4.62e-02 -0.077968 1.001
1.22e-03
## 464 7.37e-03 -1.17e-02 -1.66e-02 2.38e-02 -1.03e-02 0.034762 1.009
2.42e-04
## 465 -2.77e-03 1.02e-02 5.44e-03 -8.16e-03 3.07e-03 0.016266 1.007
5.30e-05
## 466 5.50e-02 -6.84e-03 -2.21e-03 -7.89e-03 -6.43e-02 0.071127 1.008
1.01e-03
```

```
## 467  1.38e-02 -5.71e-03 -1.81e-02  9.61e-03 -1.03e-02  0.028908 1.007
1.67e-04
## 468  -2.39e-02 -2.21e-02 -1.92e-02  2.10e-02  4.05e-02 -0.061175 1.005
7.49e-04
## 469  -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 470  1.50e-03  1.91e-02 -1.48e-02 -3.00e-03 -3.97e-03  0.027923 1.010
1.56e-04
## 471  -4.13e-03  1.49e-03 -2.16e-02 -3.69e-02  4.70e-02 -0.072556 1.005
1.05e-03
## 472  -3.12e-03  6.80e-03 -2.26e-03 -4.86e-03  6.89e-03  0.010968 1.009
2.41e-05
## 473  -7.03e-02  1.07e-01  9.70e-03 -7.76e-02  6.39e-02 -0.146965 0.978
4.30e-03
## 474  3.20e-02 -2.52e-02 -1.96e-02 -1.08e-02  1.15e-03  0.045648 1.009
4.17e-04
## 475  -2.45e-03  1.27e-02 -1.31e-02  7.69e-03 -4.08e-03  0.026087 1.010
1.36e-04
## 476  -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 477  6.00e-04 -9.96e-03 -1.08e-02  8.55e-03  9.19e-03  0.021077 1.009
8.89e-05
## 478  9.15e-03 -2.73e-03 -1.39e-02 -1.22e-02  1.27e-02  0.027163 1.009
1.48e-04
## 479  -4.80e-03  1.12e-02 -2.73e-03 -1.91e-03  3.18e-03  0.013687 1.009
3.75e-05
## 480  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 481  -6.86e-03  6.03e-03  2.56e-03  3.56e-03  1.83e-03  0.010979 1.009
2.41e-05
## 482  2.76e-02  3.34e-02  3.36e-02 -5.78e-02 -3.03e-02  0.078849 1.015
1.24e-03
## 483  -7.87e-02  6.21e-02  8.80e-02  1.31e-03 -1.25e-02 -0.143143 0.975
4.07e-03
## 484  -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 485  3.21e-03 -2.55e-03 -1.37e-02  6.34e-03  2.96e-03  0.019473 1.007
7.59e-05
## 486  -3.96e-03  3.52e-03 -1.71e-03  3.81e-04  5.16e-03  0.007665 1.008
1.18e-05
## 487  -5.89e-02 -3.33e-02  1.59e-02 -1.68e-02  1.09e-01 -0.148885 0.978
4.41e-03
## 488  5.10e-02  6.31e-02 -6.23e-03 -7.66e-02 -5.00e-02  0.105731 1.019
2.24e-03
## 489  -3.86e-03 -7.94e-03  1.43e-02 -2.63e-04  7.80e-03  0.021416 1.010
9.18e-05
## 490  5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02  1.15e-02  0.022742 1.008
1.04e-04
## 491  -3.77e-02  3.19e-03  3.72e-03  8.57e-03  3.85e-02 -0.048136 1.005
4.64e-04
```



```
## 492 -5.21e-05 -3.22e-03 -2.98e-03 6.23e-03 2.11e-03 0.013714 1.006
3.76e-05
## 493 -1.16e-03 5.28e-03 4.75e-03 -1.24e-02 9.43e-03 0.018435 1.009
6.80e-05
## 494 1.63e-03 2.77e-03 -1.50e-02 1.48e-02 -6.83e-03 0.027884 1.009
1.56e-04
## 495 5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02 1.15e-02 0.022742 1.008
1.04e-04
## 496 4.44e-03 -6.84e-03 -1.23e-02 -6.32e-04 1.09e-02 0.021763 1.008
9.48e-05
## 497 -7.12e-02 -2.79e-04 1.63e-02 2.96e-02 4.98e-02 -0.101280 0.975
2.04e-03
## 498 -6.01e-03 -3.19e-03 2.92e-03 7.45e-03 4.73e-03 0.010868 1.009
2.36e-05
## 499 9.75e-03 7.56e-03 -3.93e-03 -1.92e-02 3.90e-03 0.024306 1.007
1.18e-04
## 500 -2.64e-03 -1.80e-02 2.08e-02 1.27e-02 -1.15e-03 0.030312 1.009
1.84e-04
## 501 -1.58e-03 4.40e-03 3.05e-02 -1.72e-02 1.08e-03 0.037591 1.013
2.83e-04
## 502 -9.35e-03 3.86e-03 1.85e-02 1.29e-03 1.04e-03 0.021244 1.012
9.03e-05
## 503 -3.10e-03 1.00e-02 3.02e-03 -1.17e-02 7.81e-03 0.016367 1.011
5.36e-05
## 504 4.80e-03 -1.72e-02 -2.60e-03 1.32e-02 5.80e-04 0.023571 1.007
1.11e-04
## 505 1.82e-02 1.89e-02 -2.24e-02 1.64e-02 -4.32e-02 0.065292 1.013
8.53e-04
## 506 -5.39e-03 8.97e-04 1.03e-02 -3.13e-03 6.86e-03 0.014953 1.009
4.48e-05
## 507 6.44e-02 -1.61e-02 -2.57e-02 -2.36e-02 -4.03e-02 0.066651 1.008
8.89e-04
## 508 2.89e-02 3.55e-03 3.70e-02 -2.91e-02 -3.60e-02 0.063215 1.010
8.00e-04
## 509 2.67e-03 -2.13e-02 8.55e-03 4.58e-03 9.14e-03 0.029056 1.010
1.69e-04
## 510 -1.28e-02 -2.70e-03 -6.57e-02 -7.56e-03 6.40e-02 -0.094496 1.015
1.79e-03
## 511 -6.26e-03 1.01e-02 3.10e-03 -1.73e-03 2.57e-03 0.012978 1.009
3.37e-05
## 512 2.11e-02 1.25e-03 -1.97e-02 -6.92e-03 -1.02e-02 0.030068 1.006
1.81e-04
## 513 7.95e-02 -1.65e-02 5.49e-02 -5.60e-02 -7.98e-02 0.119900 1.014
2.88e-03
## 514 8.15e-03 2.58e-03 -1.52e-02 -5.63e-03 3.89e-03 0.021076 1.007
8.89e-05
## 515 -3.80e-03 -2.15e-02 2.84e-02 4.54e-03 7.08e-03 0.038569 1.015
2.98e-04
## 516 -4.66e-03 2.92e-03 1.94e-03 3.86e-04 4.42e-03 0.007039 1.008
9.92e-06
```

```
## 517 -6.86e-03  6.03e-03  2.56e-03  3.56e-03  1.83e-03  0.010979 1.009
2.41e-05
## 518  3.21e-03 -2.55e-03 -1.37e-02  6.34e-03  2.96e-03  0.019473 1.007
7.59e-05
## 519 -5.59e-03  2.16e-03 -2.53e-03  8.64e-03  2.20e-03  0.013681 1.008
3.75e-05
## 520  3.42e-02  3.54e-02  1.44e-02 -5.90e-02 -2.94e-02  0.073976 1.013
1.10e-03
## 521  2.98e-02 -1.01e-02 -2.20e-02  1.33e-02 -3.18e-02  0.047217 1.007
4.46e-04
## 522 -1.22e-02  8.37e-03  2.15e-02  6.93e-03 -5.86e-03  0.028799 1.014
1.66e-04
## 523  2.81e-03  7.75e-03 -3.73e-03  2.42e-03 -7.48e-03  0.019693 1.006
7.76e-05
## 524  1.40e-02  4.25e-02 -5.76e-03 -4.82e-02 -3.89e-03  0.057106 1.017
6.53e-04
## 525  9.15e-03 -2.73e-03 -1.39e-02 -1.22e-02  1.27e-02  0.027163 1.009
1.48e-04
## 526  4.31e-02 -1.71e-02 -4.93e-02  4.01e-02 -9.16e-02 -0.144807 0.968
4.16e-03
## 527  3.21e-03 -2.55e-03 -1.37e-02  6.34e-03  2.96e-03  0.019473 1.007
7.59e-05
## 528 -9.75e-03  7.75e-03  4.15e-02 -1.93e-02 -9.01e-03 -0.059213 1.001
7.01e-04
## 529 -3.76e-03 -2.93e-03 -7.06e-03  8.54e-03  6.27e-03  0.014078 1.010
3.97e-05
## 530  6.23e-03 -2.11e-02 -2.41e-03  4.60e-03  1.03e-02  0.028790 1.009
1.66e-04
## 531 -1.21e-03 -2.15e-02  4.79e-02  3.05e-02 -3.36e-02  0.066157 1.015
8.76e-04
## 532 -3.41e-03 -5.09e-03  2.47e-02 -1.01e-02  8.33e-03  0.031948 1.014
2.04e-04
## 533 -3.24e-03  6.24e-03 -3.02e-03  1.19e-03  2.98e-03  0.012303 1.006
3.03e-05
## 534  5.34e-04  2.70e-03 -1.02e-02 -3.93e-03  9.67e-03  0.016325 1.008
5.33e-05
## 535  4.42e-03 -7.52e-03  1.10e-02  9.47e-03 -1.18e-02  0.024060 1.006
1.16e-04
## 536 -6.01e-03 -3.19e-03  2.92e-03  7.45e-03  4.73e-03  0.010868 1.009
2.36e-05
## 537  4.16e-02 -3.43e-02 -2.28e-02  2.47e-02 -3.88e-02  0.061696 1.009
7.62e-04
## 538  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 539 -5.21e-05 -3.22e-03 -2.98e-03  6.23e-03  2.11e-03  0.013714 1.006
3.76e-05
## 540 -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 541 -7.40e-03 -3.25e-03  1.00e-02  6.36e-03  3.43e-03  0.013355 1.015
3.57e-05
```

```
## 542  3.26e-02 -2.77e-03 -3.23e-03 -7.43e-03 -3.34e-02  0.041739 1.006
3.49e-04
## 543  -4.80e-03  1.12e-02 -2.73e-03 -1.91e-03  3.18e-03  0.013687 1.009
3.75e-05
## 544  -7.77e-04  7.16e-03 -1.16e-02  1.15e-03  3.73e-03  0.017067 1.008
5.83e-05
## 545  2.43e-03 -4.00e-03  6.83e-03 -1.11e-02  1.04e-02  0.022775 1.008
1.04e-04
## 546  1.08e-02 -1.07e-03  1.16e-02 -6.24e-03 -1.19e-02  0.024628 1.006
1.21e-04
## 547  -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 548  2.31e-02 -2.12e-02  3.12e-02 -2.87e-02 -1.67e-03  0.058444 1.012
6.84e-04
## 549  -1.98e-02  4.60e-02 -2.38e-02  2.04e-02 -2.76e-02 -0.083883 1.005
1.41e-03
## 550  -2.45e-03  1.27e-02 -1.31e-02  7.69e-03 -4.08e-03  0.026087 1.010
1.36e-04
## 551  -6.20e-03 -8.22e-03  2.19e-02 -1.58e-04  6.89e-03  0.026655 1.013
1.42e-04
## 552  1.73e-02 -1.24e-02  1.57e-02  1.32e-02 -3.33e-02  0.043103 1.007
3.72e-04
## 553  1.23e-02 -7.76e-03  1.08e-02 -1.52e-02  1.15e-03  0.029041 1.007
1.69e-04
## 554  -4.36e-02 -5.49e-02 -1.21e-01  5.61e-02  1.15e-01 -0.198640 0.981
7.85e-03
## 555  -1.12e-02  4.03e-03 -4.93e-02  1.11e-02  2.39e-02 -0.063402 1.004
8.04e-04
## 556  6.67e-03  1.55e-02  1.35e-02  1.61e-02 -4.40e-02  0.060364 1.012
7.29e-04
## 557  5.13e-02 -1.58e-02 -2.53e-02  1.75e-02 -6.19e-02  0.075273 1.009
1.13e-03
## 558  9.72e-04 -1.76e-02  9.42e-03  1.30e-02 -3.11e-04  0.024617 1.007
1.21e-04
## 559  -3.68e-02  1.25e-02  2.72e-02 -1.65e-02  3.93e-02 -0.058325 1.006
6.81e-04
## 560  -2.86e-05  2.30e-02 -3.95e-03 -2.05e-02  5.24e-03  0.027631 1.013
1.53e-04
## 561  -9.80e-04  6.63e-03  8.39e-03  2.49e-03 -8.15e-03  0.020565 1.006
8.47e-05
## 562  -5.49e-03  5.39e-03  4.86e-03  1.23e-03  2.28e-03  0.012387 1.007
3.07e-05
## 563  -4.74e-03  1.63e-02  6.14e-03 -2.55e-03 -5.15e-03  0.022896 1.008
1.05e-04
## 564  -3.03e-03  4.17e-03 -6.09e-03  3.68e-04  5.96e-03  0.010209 1.009
2.09e-05
## 565  4.04e-04  1.89e-02 -8.55e-03 -1.98e-02  9.49e-03  0.025761 1.022
1.33e-04
## 566  6.70e-03  2.29e-02 -4.54e-03 -3.22e-03 -2.07e-02  0.038280 1.009
2.93e-04
```

## 567	4.28e-02	6.78e-03	-3.67e-03	-3.05e-02	-3.42e-02	0.053068	1.0075.63e-04
## 568	8.39e-03	1.47e-02	-4.23e-03	-1.19e-02	-7.43e-03	0.024401	1.0061.19e-04
## 569	-5.20e-03	1.15e-02	-3.40e-03	7.49e-03	-4.59e-03	0.021919	1.0099.62e-05
## 570	7.37e-05	1.20e-02	2.15e-02	-1.10e-02	-8.91e-03	0.031346	1.0091.97e-04
## 571	2.11e-02	1.25e-03	-1.97e-02	-6.92e-03	-1.02e-02	0.030068	1.0061.81e-04
## 572	-9.61e-02	-2.20e-02	1.03e-02	-1.89e-02	1.65e-01	-0.191060	0.9857.27e-03
## 573	2.11e-02	1.25e-03	-1.97e-02	-6.92e-03	-1.02e-02	0.030068	1.0061.81e-04
## 574	-3.29e-02	-2.05e-02	3.95e-02	4.69e-02	-1.16e-02	-0.070250	1.0039.87e-04
## 575	-8.92e-04	2.32e-02	6.69e-03	-1.48e-02	-5.13e-03	0.029296	1.0101.72e-04
## 576	1.98e-03	5.40e-03	1.97e-02	-1.79e-02	1.97e-03	0.029980	1.0091.80e-04
## 577	1.58e-02	6.20e-05	-3.63e-03	-6.57e-03	-1.11e-02	0.022507	1.0051.01e-04
## 578	8.39e-03	1.47e-02	-4.23e-03	-1.19e-02	-7.43e-03	0.024401	1.0061.19e-04
## 579	1.51e-02	-1.89e-02	-2.43e-03	3.17e-02	-3.17e-02	0.048440	1.0094.70e-04
## 580	-4.15e-03	9.02e-04	1.37e-03	2.86e-03	2.91e-03	0.005618	1.0096.32e-06
## 581	1.30e-01	-4.53e-02	-2.98e-02	-4.91e-02	-8.71e-02	0.130669	1.0123.41e-03
## 582	1.05e-02	-1.25e-02	-3.00e-03	-8.75e-05	1.35e-03	0.021221	1.0069.01e-05
## 583	-5.08e-02	-1.06e-01	-4.82e-02	1.40e-01	4.09e-02	-0.185565	0.9786.85e-03
## 584	3.52e-03	-2.08e-02	-1.39e-02	2.49e-02	7.74e-04	0.034005	1.0112.31e-04
## 585	-5.22e-03	9.75e-04	7.78e-03	1.41e-02	-8.00e-03	0.023326	1.0081.09e-04
## 586	8.98e-04	7.98e-04	7.59e-03	-5.01e-03	2.05e-03	0.015632	1.0064.89e-05
## 587	3.84e-03	3.12e-02	7.22e-03	-2.95e-02	-5.00e-03	0.040580	1.0133.30e-04
## 588	2.22e-02	-5.96e-03	-1.84e-02	-1.64e-02	3.38e-03	0.033813	1.0082.29e-04
## 589	6.10e-02	3.17e-02	-2.80e-02	-4.45e-02	-5.60e-02	0.086734	1.0121.50e-03
## 590	2.29e-02	-1.22e-02	-1.72e-02	-2.44e-02	1.51e-02	0.045802	1.0124.20e-04
## 591	-1.66e-03	2.04e-03	-2.64e-03	-3.65e-03	8.67e-03	0.012397	1.0073.08e-05

```
## 592 -3.16e-02  1.65e-02 -1.86e-02 -1.55e-02  5.61e-02 -0.063583 1.010
8.09e-04
## 593  3.57e-02 -1.87e-02  2.10e-02  1.75e-02 -6.33e-02  0.071784 1.009
1.03e-03
## 594  2.43e-03 -4.00e-03  6.83e-03 -1.11e-02  1.04e-02  0.022775 1.008
1.04e-04
## 595  6.22e-03 -1.32e-02  1.01e-02  6.79e-05  3.60e-04  0.022806 1.006
1.04e-04
## 596  4.13e-02 -1.85e-02 -2.12e-02 -3.11e-02  2.20e-03  0.056625 1.010
6.42e-04
## 597  6.83e-03  8.93e-03 -1.66e-02  2.34e-03 -6.78e-03  0.025936 1.007
1.35e-04
## 598 -3.93e-03  1.24e-03 -1.19e-03  3.26e-03  3.55e-03  0.006388 1.009
8.17e-06
## 599  1.44e-04 -4.13e-02  1.29e-02  3.13e-02 -1.41e-02 -0.059504 1.000
7.08e-04
## 600 -6.86e-03  6.03e-03  2.56e-03  3.56e-03  1.83e-03  0.010979 1.009
2.41e-05
## 601  8.86e-03 -1.68e-02 -1.54e-02  1.35e-02  1.53e-03  0.028619 1.008
1.64e-04
## 602  1.53e-02 -2.72e-02  2.93e-02 -9.56e-03 -2.42e-03  0.048499 1.011
4.71e-04
## 603  2.84e-02 -1.10e-02  1.28e-02 -4.39e-02 -1.12e-02 -0.069526 1.000
9.66e-04
## 604 -5.21e-05 -3.22e-03 -2.98e-03  6.23e-03  2.11e-03  0.013714 1.006
3.76e-05
## 605 -5.21e-05 -3.22e-03 -2.98e-03  6.23e-03  2.11e-03  0.013714 1.006
3.76e-05
## 606 -3.80e-03 -2.15e-02  2.84e-02  4.54e-03  7.08e-03  0.038569 1.015
2.98e-04
## 607  1.35e-02  2.62e-02  9.39e-03 -5.69e-02 -5.16e-03 -0.069747 1.001
9.72e-04
## 608 -6.59e-02  2.72e-02  8.64e-02 -4.59e-02  4.90e-02 -0.137891 0.976
3.78e-03
## 609 -7.94e-02  1.54e-01 -1.27e-01 -1.47e-01  1.94e-01 -0.280381 0.995
1.57e-02
## 610 -2.76e-02 -1.08e-04  6.33e-03  1.15e-02  1.93e-02 -0.039248 1.002
3.08e-04
## 611 -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 612  3.03e-03 -1.23e-02 -2.79e-03  2.33e-02 -1.10e-02  0.029807 1.008
1.78e-04
## 613 -6.82e-04  1.80e-02 -1.10e-02 -1.06e-02  4.91e-03  0.022453 1.012
1.01e-04
## 614  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 615 -7.77e-04  7.16e-03 -1.16e-02  1.15e-03  3.73e-03  0.017067 1.008
5.83e-05
## 616 -5.25e-03 -1.37e-03  3.55e-03  3.21e-03  6.17e-03  0.010331 1.007
2.14e-05
```

```
## 617 2.60e-02 -1.17e-01 1.17e-01 8.02e-02 -1.18e-01 -0.210709 0.969
8.81e-03
## 618 4.41e-03 1.66e-03 -3.44e-03 -5.31e-03 2.94e-03 0.014526 1.005
4.22e-05
## 619 1.46e-04 -8.34e-05 -8.95e-05 -4.45e-05 -7.81e-05 -0.000185 1.012
6.85e-09
## 620 1.08e-02 -1.07e-03 1.16e-02 -6.24e-03 -1.19e-02 0.024628 1.006
1.21e-04
## 621 8.86e-03 -1.68e-02 -1.54e-02 1.35e-02 1.53e-03 0.028619 1.008
1.64e-04
## 622 -4.63e-02 -5.62e-02 3.60e-02 8.24e-02 9.97e-03 -0.098750 1.011
1.95e-03
## 623 -7.63e-03 5.25e-03 6.58e-03 3.33e-03 1.38e-03 0.011840 1.011
2.81e-05
## 624 6.03e-02 -8.91e-03 2.13e-02 -4.93e-02 -4.32e-02 0.079148 1.010
1.25e-03
## 625 -3.76e-03 -2.93e-03 -7.06e-03 8.54e-03 6.27e-03 0.014078 1.010
3.97e-05
## 626 -3.23e-03 1.36e-02 9.23e-03 1.15e-02 -2.03e-02 0.037130 1.010
2.76e-04
## 627 8.39e-03 1.47e-02 -4.23e-03 -1.19e-02 -7.43e-03 0.024401 1.006
1.19e-04
## 628 3.74e-02 2.52e-02 4.10e-02 -4.17e-02 -5.84e-02 0.088451 1.014
1.57e-03
## 629 -2.55e-03 -1.29e-02 4.87e-02 1.88e-02 -4.62e-02 -0.077968 1.001
1.22e-03
## 630 -6.26e-03 1.01e-02 3.10e-03 -1.73e-03 2.57e-03 0.012978 1.009
3.37e-05
## 631 -3.61e-03 2.82e-03 -1.01e-02 9.01e-03 2.86e-03 0.017372 1.009
6.04e-05
## 632 -2.51e-03 3.52e-03 -9.24e-04 -6.44e-04 2.64e-03 0.004705 1.011
4.43e-06
## 633 -9.80e-04 6.63e-03 8.39e-03 2.49e-03 -8.15e-03 0.020565 1.006
8.47e-05
## 634 -4.08e-03 -9.17e-03 3.74e-02 9.35e-03 -1.32e-02 0.042592 1.012
3.63e-04
## 635 6.81e-05 -8.36e-03 2.45e-02 9.40e-03 -1.25e-02 0.032195 1.008
2.07e-04
## 636 3.60e-02 -2.20e-02 -5.76e-02 -6.04e-03 -7.81e-03 -0.077592 1.001
1.20e-03
## 637 -8.52e-03 -4.93e-03 2.48e-02 5.92e-03 -1.13e-04 0.027556 1.011
1.52e-04
## 638 -6.22e-03 -1.19e-02 4.82e-03 1.40e-02 5.89e-03 0.019325 1.011
7.48e-05
## 639 -6.01e-03 -3.19e-03 2.92e-03 7.45e-03 4.73e-03 0.010868 1.009
2.36e-05
## 640 1.48e-02 2.41e-03 -1.55e-02 -2.62e-02 1.47e-02 0.037498 1.012
2.81e-04
## 641 -1.22e-03 1.03e-03 -3.43e-04 4.80e-04 9.68e-04 0.001834 1.011
6.73e-07
```

```
## 642  4.42e-03 -7.52e-03  1.10e-02  9.47e-03 -1.18e-02  0.024060 1.006
1.16e-04
## 643 -1.73e-04 -2.82e-02 -5.06e-02  2.59e-02  2.09e-02 -0.073700 1.004
1.09e-03
## 644 -3.96e-03  3.52e-03 -1.71e-03  3.81e-04  5.16e-03  0.007665 1.008
1.18e-05
## 645  2.41e-02  2.90e-02 -2.45e-02 -5.80e-02 -2.73e-03 -0.074057 1.001
1.10e-03
## 646  2.22e-02  1.68e-02 -4.32e-03 -1.49e-02 -2.71e-02  0.040889 1.007
3.35e-04
## 647 -9.75e-03  7.75e-03  4.15e-02 -1.93e-02 -9.01e-03 -0.059213 1.001
7.01e-04
## 648  7.37e-03 -1.17e-02 -1.66e-02  2.38e-02 -1.03e-02  0.034762 1.009
2.42e-04
## 649 -1.01e-02  1.38e-02  2.42e-02 -2.16e-03 -6.15e-03  0.031772 1.014
2.02e-04
## 650  2.60e-03  2.48e-02 -4.50e-03 -1.54e-02 -4.46e-03  0.029802 1.009
1.78e-04
## 651  1.98e-02  9.50e-03 -2.10e-02  3.95e-03 -2.56e-02  0.042155 1.008
3.56e-04
## 652  8.39e-03  1.47e-02 -4.23e-03 -1.19e-02 -7.43e-03  0.024401 1.006
1.19e-04
## 653  1.35e-02  2.62e-02  9.39e-03 -5.69e-02 -5.16e-03 -0.069747 1.001
9.72e-04
## 654 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 655  1.52e-02 -2.84e-03 -2.26e-02 -4.10e-02  2.33e-02 -0.067858 1.002
9.21e-04
## 656 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 657  5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02  1.15e-02  0.022742 1.008
1.04e-04
## 658  1.63e-03  2.77e-03 -1.50e-02  1.48e-02 -6.83e-03  0.027884 1.009
1.56e-04
## 659  2.11e-02  4.20e-02 -5.67e-03 -4.02e-02 -2.21e-02  0.059636 1.013
7.12e-04
## 660  6.00e-04 -9.96e-03 -1.08e-02  8.55e-03  9.19e-03  0.021077 1.009
8.89e-05
## 661 -1.91e-03 -1.01e-02 -2.27e-03  8.26e-03  8.19e-03  0.017447 1.008
6.09e-05
## 662  6.35e-02 -5.12e-03 -2.68e-02 -8.30e-03 -6.35e-02  0.077057 1.009
1.19e-03
## 663 -5.21e-05 -3.22e-03 -2.98e-03  6.23e-03  2.11e-03  0.013714 1.006
3.76e-05
## 664  4.42e-03 -7.52e-03  1.10e-02  9.47e-03 -1.18e-02  0.024060 1.006
1.16e-04
## 665  3.91e-02  1.37e-02  3.89e-02 -5.40e-02 -3.70e-02  0.080229 1.013
1.29e-03
## 666  1.17e-02 -1.75e-02 -2.81e-03 -8.30e-03  1.19e-02  0.032277 1.009
2.09e-04
```

## 667	9.15e-03	-2.73e-03	-1.39e-02	-1.22e-02	1.27e-02	0.027163	1.009
	1.48e-04						
## 668	7.73e-02	-5.53e-03	-2.73e-02	-5.14e-02	-4.09e-02	0.083183	1.010
	1.38e-03						
## 669	1.17e-02	-1.75e-02	-2.81e-03	-8.30e-03	1.19e-02	0.032277	1.009
	2.09e-04						
## 670	-1.82e-02	-3.18e-02	9.18e-03	2.59e-02	1.61e-02	-0.052954	1.002
	5.61e-04						
## 671	1.58e-02	6.20e-05	-3.63e-03	-6.57e-03	-1.11e-02	0.022507	1.005
	1.01e-04						
## 672	1.08e-02	-1.07e-03	1.16e-02	-6.24e-03	-1.19e-02	0.024628	1.006
	1.21e-04						
## 673	1.69e-02	1.15e-01	-1.33e-01	-8.16e-02	7.37e-03	-0.194043	0.975
	7.48e-03						
## 674	1.88e-04	5.89e-02	6.28e-03	-6.82e-02	2.07e-04	-0.084600	1.004
	1.43e-03						
## 675	-3.63e-03	1.44e-03	4.16e-03	-3.38e-03	7.73e-03	0.012219	1.007
	2.99e-05						
## 676	-6.22e-03	-7.47e-03	6.31e-03	1.49e-02	7.03e-04	0.019084	1.008
	7.29e-05						
## 677	6.86e-02	-7.24e-03	-2.60e-03	-5.03e-02	-4.21e-02	0.077387	1.009
	1.20e-03						
## 678	-1.75e-02	1.29e-02	6.23e-03	-1.86e-02	2.16e-02	-0.043263	1.002
	3.74e-04						
## 679	2.43e-03	-4.00e-03	6.83e-03	-1.11e-02	1.04e-02	0.022775	1.008
	1.04e-04						
## 680	1.08e-02	1.49e-03	-3.64e-03	-2.52e-02	1.34e-02	0.033240	1.011
	2.21e-04						
## 681	-4.15e-03	9.02e-04	1.37e-03	2.86e-03	2.91e-03	0.005618	1.009
	6.32e-06						
## 682	-4.31e-03	5.96e-03	2.49e-03	-4.45e-03	6.05e-03	0.010251	1.009
	2.10e-05						
## 683	1.38e-02	-2.66e-02	1.29e-02	-5.09e-03	-1.27e-02	-0.052459	0.999
	5.50e-04						
## 684	-9.21e-03	-1.15e-02	1.61e-02	1.27e-02	4.41e-03	0.023239	1.017
	1.08e-04						
## 685	-4.69e-03	7.79e-03	-7.65e-03	4.00e-03	2.90e-03	0.014566	1.011
	4.25e-05						
## 686	9.00e-03	-6.64e-03	-3.19e-03	9.54e-03	-1.11e-02	0.022177	1.005
	9.84e-05						
## 687	1.24e-01	-7.57e-02	-1.99e-01	-2.08e-02	-2.69e-02	-0.267566	0.917
	1.41e-02						
## 688	5.34e-04	2.70e-03	-1.02e-02	-3.93e-03	9.67e-03	0.016325	1.008
	5.33e-05						
## 689	-4.66e-03	2.92e-03	1.94e-03	3.86e-04	4.42e-03	0.007039	1.008
	9.92e-06						
## 690	3.21e-03	-2.55e-03	-1.37e-02	6.34e-03	2.96e-03	0.019473	1.007
	7.59e-05						
## 691	7.49e-03	1.89e-02	-1.50e-02	-2.17e-02	5.86e-03	0.030535	1.011
	1.87e-04						


```
## 692 -3.95e-05 1.13e-02 -3.55e-03 -8.60e-03 3.87e-03 0.016348 1.007
5.35e-05
## 693 -4.19e-03 -1.02e-02 5.51e-03 7.98e-03 7.26e-03 0.017416 1.009
6.07e-05
## 694 9.00e-03 -6.64e-03 -3.19e-03 9.54e-03 -1.11e-02 0.022177 1.005
9.84e-05
## 695 -3.63e-03 1.44e-03 4.16e-03 -3.38e-03 7.73e-03 0.012219 1.007
2.99e-05
## 696 -5.59e-03 2.16e-03 -2.53e-03 8.64e-03 2.20e-03 0.013681 1.008
3.75e-05
## 697 -8.66e-03 -1.42e-02 3.46e-02 2.20e-02 -1.29e-02 0.044119 1.014
3.90e-04
## 698 -2.04e-03 -6.18e-04 -8.60e-03 3.48e-03 7.90e-03 0.013949 1.009
3.90e-05
## 699 -1.00e-02 9.35e-03 1.39e-02 7.11e-03 -5.48e-03 0.024319 1.011
1.18e-04
## 700 -5.22e-03 9.75e-04 7.78e-03 1.41e-02 -8.00e-03 0.023326 1.008
1.09e-04
## 701 1.15e-02 1.32e-02 8.82e-03 -3.45e-02 3.89e-03 0.038884 1.011
3.03e-04
## 702 1.02e-02 3.79e-02 2.69e-02 -3.81e-02 -2.35e-02 0.062932 1.015
7.93e-04
## 703 -1.48e-03 -2.37e-02 7.82e-03 1.47e-02 7.71e-03 0.029755 1.012
1.77e-04
## 704 -2.61e-03 -2.32e-03 -2.21e-02 1.46e-02 -5.96e-03 -0.045431 1.000
4.13e-04
## 705 -3.93e-03 1.24e-03 -1.19e-03 3.26e-03 3.55e-03 0.006388 1.009
8.17e-06
## 706 -2.32e-03 8.19e-03 -4.97e-03 -4.72e-03 5.26e-03 0.010795 1.014
2.33e-05
## 707 -5.59e-03 2.16e-03 -2.53e-03 8.64e-03 2.20e-03 0.013681 1.008
3.75e-05
## 708 1.05e-02 -1.25e-02 -3.00e-03 -8.75e-05 1.35e-03 0.021221 1.006
9.01e-05
## 709 1.48e-02 -3.07e-02 -1.79e-02 3.49e-02 -1.44e-02 0.048738 1.011
4.75e-04
## 710 -1.66e-03 2.04e-03 -2.64e-03 -3.65e-03 8.67e-03 0.012397 1.007
3.08e-05
## 711 3.99e-02 -8.39e-03 -2.31e-02 -4.48e-02 -8.67e-03 -0.072803 1.000
1.06e-03
## 712 1.03e-02 1.28e-02 -2.33e-02 -2.05e-02 -4.40e-03 -0.048995 1.000
4.80e-04
## 713 1.69e-02 -2.56e-02 -2.33e-03 1.86e-02 -1.53e-02 0.035268 1.007
2.49e-04
## 714 -2.39e-03 -1.27e-05 1.79e-02 -4.73e-03 1.21e-03 0.022288 1.008
9.94e-05
## 715 -3.33e-03 5.96e-03 1.16e-03 -3.58e-03 3.69e-03 0.007491 1.012
1.12e-05
## 716 -8.10e-03 1.34e-02 -2.28e-02 3.70e-02 -3.47e-02 -0.075977 1.002
1.15e-03
```

```
## 717  2.15e-02 -1.39e-02  3.32e-02 -1.84e-02 -1.74e-02  0.050111 1.009
5.03e-04
## 718  1.62e-02 -3.57e-02 -1.68e-02  2.26e-02 -5.88e-04  0.044831 1.011
4.02e-04
## 719  -5.00e-03 -3.09e-03 -1.70e-03  7.99e-03  5.47e-03  0.011442 1.009
2.62e-05
## 720  -1.55e-02  2.46e-02  3.51e-02 -5.02e-02  2.16e-02 -0.073242 1.004
1.07e-03
## 721  -3.13e-02 -2.36e-02  6.08e-03  2.10e-02  3.81e-02 -0.057544 1.005
6.62e-04
## 722  -8.52e-03 -4.93e-03  2.48e-02  5.92e-03 -1.13e-04  0.027556 1.011
1.52e-04
## 723  -6.01e-03 -3.19e-03  2.92e-03  7.45e-03  4.73e-03  0.010868 1.009
2.36e-05
## 724  -5.59e-03  2.16e-03 -2.53e-03  8.64e-03  2.20e-03  0.013681 1.008
3.75e-05
## 725  2.96e-02 -3.99e-02 -2.14e-02 -2.80e-02  1.94e-02 -0.082601 1.002
1.36e-03
## 726  1.42e-02  8.05e-03 -3.84e-03  4.06e-03 -2.63e-02  0.035950 1.007
2.59e-04
## 727  1.21e-02 -4.41e-02  3.73e-02  4.37e-02 -4.02e-02  0.073665 1.014
1.09e-03
## 728  -2.38e-03 -1.21e-02 -9.32e-03  1.54e-02  7.62e-03  0.022794 1.012
1.04e-04
## 729  5.16e-03  1.64e-02 -1.80e-02  1.18e-02 -1.94e-02  0.042060 1.011
3.54e-04
## 730  -1.91e-03 -1.01e-02 -2.27e-03  8.26e-03  8.19e-03  0.017447 1.008
6.09e-05
## 731  1.81e-02 -1.28e-02 -3.23e-03 -2.36e-02  1.37e-02  0.041419 1.011
3.43e-04
## 732  -5.21e-05 -3.22e-03 -2.98e-03  6.23e-03  2.11e-03  0.013714 1.006
3.76e-05
## 733  3.11e-02 -1.82e-02 -2.08e-02  5.40e-04 -1.44e-02  0.038560 1.006
2.98e-04
## 734  1.75e-02  2.46e-03 -8.80e-02  1.42e-02 -1.35e-03 -0.097002 1.005
1.88e-03
## 735  1.97e-02 -5.52e-03  3.52e-02 -6.72e-03 -3.51e-02  0.053443 1.009
5.72e-04
## 736  -3.53e-01  1.60e-01 -1.04e-01  1.55e-01  2.93e-01 -0.419932 0.957
3.49e-02
## 737  5.85e-02 -8.21e-02  2.15e-02  1.50e-02 -6.16e-02 -0.109646 1.000
2.40e-03
## 738  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 739  -1.72e-03  7.71e-03 -7.75e-03 -5.29e-03  7.80e-03  0.013899 1.010
3.87e-05
## 740  -5.25e-03 -1.37e-03  3.55e-03  3.21e-03  6.17e-03  0.010331 1.007
2.14e-05
## 741  2.92e-02 -6.82e-02  1.67e-02  1.16e-02 -1.94e-02 -0.083393 1.000
1.39e-03
```

```
## 742  1.34e-03 -3.18e-03  4.02e-02 -5.63e-03 -1.35e-02  0.045283 1.011
4.10e-04
## 743  2.06e-02 -2.66e-02  1.37e-02 -9.95e-03 -1.28e-03  0.041732 1.008
3.49e-04
## 744 -1.35e-01  5.44e-02  2.71e-02  1.25e-01 -1.77e-02 -0.220392 0.927
9.56e-03
## 745  2.43e-03 -4.00e-03  6.83e-03 -1.11e-02  1.04e-02  0.022775 1.008
1.04e-04
## 746 -2.39e-03 -1.27e-05  1.79e-02 -4.73e-03  1.21e-03  0.022288 1.008
9.94e-05
## 747 -2.04e-03 -6.18e-04 -8.60e-03  3.48e-03  7.90e-03  0.013949 1.009
3.90e-05
## 748  8.90e-03  6.66e-03  1.26e-02  4.16e-03 -2.69e-02  0.037161 1.007
2.76e-04
## 749  8.98e-04  7.98e-04  7.59e-03 -5.01e-03  2.05e-03  0.015632 1.006
4.89e-05
## 750  3.55e-03 -1.84e-04  1.79e-02 -2.34e-02  1.10e-02  0.035766 1.013
2.56e-04
## 751 -7.24e-03  2.02e-02  2.70e-02 -1.36e-02 -6.33e-03  0.038035 1.015
2.90e-04
## 752 -7.81e-03 -1.17e-02  1.08e-02  1.33e-02  5.12e-03  0.020754 1.013
8.62e-05
## 753 -5.20e-03  1.15e-02 -3.40e-03  7.49e-03 -4.59e-03  0.021919 1.009
9.62e-05
## 754  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 755 -3.42e-02  3.80e-02  2.94e-02 -2.87e-02  2.20e-02 -0.062220 1.005
7.74e-04
## 756  1.45e-03 -7.25e-03 -2.69e-03 -5.00e-04  9.79e-03  0.017448 1.007
6.09e-05
## 757 -5.25e-03 -1.37e-03  3.55e-03  3.21e-03  6.17e-03  0.010331 1.007
2.14e-05
## 758  3.84e-03  3.12e-02  7.22e-03 -2.95e-02 -5.00e-03  0.040580 1.013
3.30e-04
## 759  4.92e-02  1.97e-02 -2.64e-02 -1.80e-02 -5.45e-02  0.073058 1.010
1.07e-03
## 760 -7.63e-03  5.25e-03  6.58e-03  3.33e-03  1.38e-03  0.011840 1.011
2.81e-05
## 761 -1.22e-03  1.03e-03 -3.43e-04  4.80e-04  9.68e-04  0.001834 1.011
6.73e-07
## 762  5.13e-02 -1.58e-02 -2.53e-02  1.75e-02 -6.19e-02  0.075273 1.009
1.13e-03
## 763  1.29e-02  1.61e-02 -1.82e-02 -1.24e-02 -6.62e-03  0.030693 1.008
1.89e-04
## 764 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 765  7.37e-03 -1.17e-02 -1.66e-02  2.38e-02 -1.03e-02  0.034762 1.009
2.42e-04
## 766  6.00e-04 -9.96e-03 -1.08e-02  8.55e-03  9.19e-03  0.021077 1.009
8.89e-05
```

## 767	-8.54e-03	8.10e-03	1.26e-02	-1.40e-03	1.53e-03	0.016781	1.0145.64e-05
## 768	-3.21e-01	1.26e-01	-1.37e-01	1.48e-01	2.81e-01	-0.418061	0.8753.40e-02
## 769	-2.59e-02	1.07e-02	3.40e-02	-1.81e-02	1.93e-02	-0.054299	1.0035.90e-04
## 770	-4.99e-02	4.94e-03	-5.39e-02	2.89e-02	5.52e-02	-0.114072	0.9752.59e-03
## 771	-5.97e-01	2.08e-01	1.37e-01	2.26e-01	4.01e-01	-0.600675	0.8957.04e-02
## 772	-3.86e-03	-7.94e-03	1.43e-02	-2.63e-04	7.80e-03	0.021416	1.0109.18e-05
## 773	2.98e-02	-1.01e-02	-2.20e-02	1.33e-02	-3.18e-02	0.047217	1.0074.46e-04
## 774	-3.12e-03	6.80e-03	-2.26e-03	-4.86e-03	6.89e-03	0.010968	1.0092.41e-05
## 775	-1.71e-01	4.29e-02	6.83e-02	6.26e-02	1.07e-01	-0.177204	0.9866.26e-03
## 776	1.51e-02	-1.19e-02	-1.68e-02	-2.52e-04	2.39e-03	0.027394	1.0071.50e-04
## 777	-1.58e-03	1.19e-03	1.66e-03	-2.22e-04	8.60e-04	0.002421	1.0151.17e-06
## 778	7.37e-03	-1.17e-02	-1.66e-02	2.38e-02	-1.03e-02	0.034762	1.0092.42e-04
## 779	3.15e-02	-4.20e-02	-2.14e-02	4.54e-02	-3.80e-02	0.070373	1.0129.91e-04
## 780	1.08e-02	-1.07e-03	1.16e-02	-6.24e-03	-1.19e-02	0.024628	1.0061.21e-04
## 781	3.21e-03	-2.55e-03	-1.37e-02	6.34e-03	2.96e-03	0.019473	1.0077.59e-05
## 782	-2.69e-02	-3.36e-02	3.80e-02	2.60e-02	1.38e-02	-0.064048	1.0038.20e-04
## 783	-1.31e-03	-7.61e-03	6.18e-03	-3.77e-04	8.76e-03	0.017672	1.0086.25e-05
## 784	-8.13e-03	-1.03e-02	1.90e-02	7.42e-03	5.59e-03	0.024221	1.0141.17e-04
## 785	2.50e-03	-1.69e-02	-2.14e-02	-6.36e-03	2.08e-02	-0.052524	1.0015.52e-04
## 786	-1.39e-02	2.91e-02	-2.20e-02	-4.60e-02	4.76e-02	-0.073112	1.0071.07e-03
## 787	-3.76e-03	-1.02e-03	-2.16e-03	3.34e-03	7.00e-03	0.010554	1.0072.23e-05
## 788	2.48e-02	-4.27e-02	-1.12e-03	4.48e-02	-3.87e-02	0.065783	1.0118.66e-04
## 789	2.25e-02	-2.49e-02	-1.93e-02	1.89e-02	-1.44e-02	0.040867	1.0083.34e-04
## 790	-7.36e-03	1.55e-03	4.27e-03	8.27e-03	1.60e-03	0.013447	1.0083.62e-05
## 791	1.30e-03	6.13e-03	-3.16e-03	-1.30e-02	1.05e-02	0.018910	1.0097.16e-05

```
## 792  3.95e-02 -1.32e-03 -2.35e-02 -7.81e-03 -3.26e-02  0.048506 1.007
4.71e-04
## 793  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 794 -2.13e-01  7.09e-03  1.27e-01  4.20e-02  1.75e-01 -0.261078 0.936
1.34e-02
## 795 -2.88e-02  2.46e-02  2.82e-02 -4.41e-02  4.26e-02 -0.073382 1.008
1.08e-03
## 796  4.04e-04  1.89e-02 -8.55e-03 -1.98e-02  9.49e-03  0.025761 1.022
1.33e-04
## 797 -9.48e-02  7.74e-02  4.23e-03 -1.18e-01  1.77e-01 -0.221079 0.988
9.73e-03
## 798  2.69e-02  4.43e-02 -2.30e-02 -4.13e-02 -2.13e-02  0.064961 1.014
8.45e-04
## 799 -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 800  2.62e-02 -2.59e-02 -2.60e-03 -1.04e-02 -9.09e-05  0.040362 1.008
3.26e-04
## 801  6.83e-03  8.93e-03 -1.66e-02  2.34e-03 -6.78e-03  0.025936 1.007
1.35e-04
## 802  4.54e-02 -8.45e-02  6.22e-02  1.54e-02 -6.41e-02 -0.123514 1.001
3.05e-03
## 803 -6.86e-03  6.03e-03  2.56e-03  3.56e-03  1.83e-03  0.010979 1.009
2.41e-05
## 804  4.44e-03 -6.84e-03 -1.23e-02 -6.32e-04  1.09e-02  0.021763 1.008
9.48e-05
## 805 -3.49e-03  1.64e-03 -4.48e-03  3.66e-03  4.25e-03  0.008408 1.011
1.42e-05
## 806 -4.15e-03  9.02e-04  1.37e-03  2.86e-03  2.91e-03  0.005618 1.009
6.32e-06
## 807 -5.97e-01  2.08e-01  1.37e-01  2.26e-01  4.01e-01 -0.600675 0.895
7.04e-02
## 808 -1.32e-01  1.48e-01 -6.22e-02 -3.52e-02  1.29e-01 -0.203915 0.989
8.28e-03
## 809 -3.76e-03 -2.93e-03 -7.06e-03  8.54e-03  6.27e-03  0.014078 1.010
3.97e-05
## 810 -4.62e-02 -3.50e-02  2.97e-02  4.56e-02  3.30e-02 -0.073936 1.009
1.09e-03
## 811  7.05e-03  6.25e-04  7.47e-03 -2.43e-02  1.22e-02  0.032846 1.011
2.16e-04
## 812 -1.31e-03 -7.61e-03  6.18e-03 -3.77e-04  8.76e-03  0.017672 1.008
6.25e-05
## 813  1.30e-01 -4.53e-02 -2.98e-02 -4.91e-02 -8.71e-02  0.130669 1.012
3.41e-03
## 814  6.44e-02 -1.61e-02 -2.57e-02 -2.36e-02 -4.03e-02  0.066651 1.008
8.89e-04
## 815 -9.80e-04  6.63e-03  8.39e-03  2.49e-03 -8.15e-03  0.020565 1.006
8.47e-05
## 816  2.43e-03 -4.00e-03  6.83e-03 -1.11e-02  1.04e-02  0.022775 1.008
1.04e-04
```

```
## 817 -5.25e-03 -1.37e-03 3.55e-03 3.21e-03 6.17e-03 0.010331 1.007
2.14e-05
## 818 -5.43e-03 2.10e-01 9.15e-02 -1.97e-01 -6.76e-02 -0.291806 0.979
1.69e-02
## 819 1.03e-02 1.28e-02 -2.33e-02 -2.05e-02 -4.40e-03 -0.048995 1.000
4.80e-04
## 820 2.98e-02 -1.01e-02 -2.20e-02 1.33e-02 -3.18e-02 0.047217 1.007
4.46e-04
## 821 1.45e-03 -7.25e-03 -2.69e-03 -5.00e-04 9.79e-03 0.017448 1.007
6.09e-05
## 822 -1.91e-03 -1.01e-02 -2.27e-03 8.26e-03 8.19e-03 0.017447 1.008
6.09e-05
## 823 -8.78e-04 -6.69e-03 -1.22e-02 1.60e-02 2.15e-03 0.022995 1.009
1.06e-04
## 824 3.26e-02 -2.77e-03 -3.23e-03 -7.43e-03 -3.34e-02 0.041739 1.006
3.49e-04
## 825 1.00e-02 -2.10e-02 -1.41e-02 4.62e-03 1.15e-02 0.032841 1.010
2.16e-04
## 826 -1.98e-02 4.60e-02 -2.38e-02 2.04e-02 -2.76e-02 -0.083883 1.005
1.41e-03
## 827 -5.25e-03 -1.37e-03 3.55e-03 3.21e-03 6.17e-03 0.010331 1.007
2.14e-05
## 828 -6.53e-03 -1.68e-03 8.55e-03 3.06e-03 5.39e-03 0.012475 1.009
3.12e-05
## 829 1.22e-01 -1.68e-01 2.45e-01 -1.48e-02 -2.40e-01 -0.410967 0.841
3.26e-02
## 830 6.23e-03 -2.11e-02 -2.41e-03 4.60e-03 1.03e-02 0.028790 1.009
1.66e-04
## 831 2.81e-03 7.75e-03 -3.73e-03 2.42e-03 -7.48e-03 0.019693 1.006
7.76e-05
## 832 -5.59e-03 2.16e-03 -2.53e-03 8.64e-03 2.20e-03 0.013681 1.008
3.75e-05
## 833 -3.40e-03 4.49e-03 1.20e-02 -1.17e-02 8.46e-03 0.020791 1.011
8.65e-05
## 834 -7.87e-02 6.21e-02 8.80e-02 1.31e-03 -1.25e-02 -0.143143 0.975
4.07e-03
## 835 3.59e-02 -4.97e-02 -2.08e-02 3.71e-02 -5.04e-02 -0.085449 0.999
1.46e-03
## 836 1.35e-02 2.62e-02 9.39e-03 -5.69e-02 -5.16e-03 -0.069747 1.001
9.72e-04
## 837 6.00e-04 -9.96e-03 -1.08e-02 8.55e-03 9.19e-03 0.021077 1.009
8.89e-05
## 838 -3.10e-03 1.00e-02 3.02e-03 -1.17e-02 7.81e-03 0.016367 1.011
5.36e-05
## 839 -3.61e-03 2.82e-03 -1.01e-02 9.01e-03 2.86e-03 0.017372 1.009
6.04e-05
## 840 -6.88e-03 -1.90e-02 9.14e-03 -5.92e-03 1.83e-02 -0.048241 1.001
4.65e-04
## 841 -6.22e-03 -1.19e-02 4.82e-03 1.40e-02 5.89e-03 0.019325 1.011
7.48e-05
```

```
## 842 -5.49e-03  5.39e-03  4.86e-03  1.23e-03  2.28e-03  0.012387 1.007
3.07e-05
## 843 -3.96e-03  3.52e-03 -1.71e-03  3.81e-04  5.16e-03  0.007665 1.008
1.18e-05
## 844 -3.24e-03  6.24e-03 -3.02e-03  1.19e-03  2.98e-03  0.012303 1.006
3.03e-05
## 845  1.57e-02 -1.50e-02  5.04e-02 -1.79e-02 -1.84e-02  0.062483 1.013
7.81e-04
## 846 -3.68e-02  2.33e-02  2.19e-02 -3.76e-02  5.53e-02 -0.074307 1.012
1.10e-03
## 847  6.70e-03  2.29e-02 -4.54e-03 -3.22e-03 -2.07e-02  0.038280 1.009
2.93e-04
## 848 -6.81e-03 -3.24e-03  6.83e-03  6.90e-03  4.05e-03  0.011810 1.011
2.79e-05
## 849  4.44e-03 -6.84e-03 -1.23e-02 -6.32e-04  1.09e-02  0.021763 1.008
9.48e-05
## 850 -1.36e-01  1.23e-01 -1.22e-01  3.11e-02  1.29e-01 -0.227768 0.991
1.03e-02
## 851 -2.99e-02 -1.43e-02  3.17e-02 -5.97e-03  3.87e-02 -0.063668 1.005
8.11e-04
## 852  5.02e-02  8.50e-03 -2.51e-02 -3.14e-02 -3.32e-02  0.059476 1.008
7.08e-04
## 853  6.44e-02 -1.61e-02 -2.57e-02 -2.36e-02 -4.03e-02  0.066651 1.008
8.89e-04
## 854  7.37e-05  1.20e-02  2.15e-02 -1.10e-02 -8.91e-03  0.031346 1.009
1.97e-04
## 855  8.39e-03  1.47e-02 -4.23e-03 -1.19e-02 -7.43e-03  0.024401 1.006
1.19e-04
## 856 -6.86e-03  6.03e-03  2.56e-03  3.56e-03  1.83e-03  0.010979 1.009
2.41e-05
## 857 -3.76e-03 -1.02e-03 -2.16e-03  3.34e-03  7.00e-03  0.010554 1.007
2.23e-05
## 858  2.81e-03  7.75e-03 -3.73e-03  2.42e-03 -7.48e-03  0.019693 1.006
7.76e-05
## 859 -7.67e-02 -2.72e-02 -5.23e-02  1.04e-01  5.07e-02 -0.150200 0.978
4.49e-03
## 860 -4.55e-03  5.58e-03  1.98e-02  2.55e-03 -8.77e-03  0.026939 1.008
1.45e-04
## 861 -2.77e-03  1.02e-02  5.44e-03 -8.16e-03  3.07e-03  0.016266 1.007
5.30e-05
## 862 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 863 -5.59e-03  2.16e-03 -2.53e-03  8.64e-03  2.20e-03  0.013681 1.008
3.75e-05
## 864  3.26e-02 -2.77e-03 -3.23e-03 -7.43e-03 -3.34e-02  0.041739 1.006
3.49e-04
## 865 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 866  1.06e-02 -3.92e-02 -2.08e-02  3.13e-02 -1.18e-02 -0.062312 1.000
7.76e-04
```

```
## 867 -8.10e-03  1.34e-02 -2.28e-02  3.70e-02 -3.47e-02 -0.075977 1.002
1.15e-03
## 868  2.81e-03  7.75e-03 -3.73e-03  2.42e-03 -7.48e-03  0.019693 1.006
7.76e-05
## 869 -5.90e-03 -4.40e-03  1.62e-02  6.02e-03  5.77e-04  0.020443 1.008
8.37e-05
## 870  6.00e-04 -9.96e-03 -1.08e-02  8.55e-03  9.19e-03  0.021077 1.009
8.89e-05
## 871 -1.91e-03  1.85e-03 -3.26e-03  1.44e-02 -7.44e-03  0.022948 1.007
1.05e-04
## 872 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 873 -1.31e-03 -7.61e-03  6.18e-03 -3.77e-04  8.76e-03  0.017672 1.008
6.25e-05
## 874  1.44e-04 -4.13e-02  1.29e-02  3.13e-02 -1.41e-02 -0.059504 1.000
7.08e-04
## 875  1.87e-02  3.39e-02 -2.13e-02 -2.12e-02 -2.08e-02  0.051338 1.011
5.27e-04
## 876  3.95e-02 -1.32e-03 -2.35e-02 -7.81e-03 -3.26e-02  0.048506 1.007
4.71e-04
## 877  5.13e-02 -1.58e-02 -2.53e-02  1.75e-02 -6.19e-02  0.075273 1.009
1.13e-03
## 878  1.36e-02 -1.35e-02  9.96e-03 -2.28e-02  1.24e-02  0.041403 1.012
3.43e-04
## 879 -1.19e-02  4.26e-02  6.43e-03 -3.27e-02 -1.43e-03 -0.058285 1.002
6.79e-04
## 880 -1.05e-02 -9.82e-02  5.09e-02  8.58e-02 -2.43e-02 -0.124822 1.008
3.11e-03
## 881  1.87e-02  3.39e-02 -2.13e-02 -2.12e-02 -2.08e-02  0.051338 1.011
5.27e-04
## 882  4.92e-03 -2.39e-02 -1.27e-02  1.56e-02  9.83e-03  0.033367 1.012
2.23e-04
## 883  7.49e-03  1.89e-02 -1.50e-02 -2.17e-02  5.86e-03  0.030535 1.011
1.87e-04
## 884  1.38e-02 -5.71e-03 -1.81e-02  9.61e-03 -1.03e-02  0.028908 1.007
1.67e-04
## 885 -3.96e-03  3.52e-03 -1.71e-03  3.81e-04  5.16e-03  0.007665 1.008
1.18e-05
## 886  3.85e-04  2.38e-02  2.20e-02 -4.61e-02 -1.56e-02 -0.101373 0.970
2.04e-03
## 887  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 888 -5.53e-03 -2.61e-02  1.35e-02  5.55e-02 -4.46e-02 -0.080535 1.001
1.30e-03
## 889 -5.21e-05 -3.22e-03 -2.98e-03  6.23e-03  2.11e-03  0.013714 1.006
3.76e-05
## 890  8.98e-04  7.98e-04  7.59e-03 -5.01e-03  2.05e-03  0.015632 1.006
4.89e-05
## 891  1.50e-03  1.91e-02 -1.48e-02 -3.00e-03 -3.97e-03  0.027923 1.010
1.56e-04
```



```
## 892 -5.49e-03  5.39e-03  4.86e-03  1.23e-03  2.28e-03  0.012387 1.007
3.07e-05
## 893 -3.63e-03  1.44e-03  4.16e-03 -3.38e-03  7.73e-03  0.012219 1.007
2.99e-05
## 894  1.23e-02 -7.76e-03  1.08e-02 -1.52e-02  1.15e-03  0.029041 1.007
1.69e-04
## 895  5.34e-04  2.70e-03 -1.02e-02 -3.93e-03  9.67e-03  0.016325 1.008
5.33e-05
## 896 -1.82e-02 -3.18e-02  9.18e-03  2.59e-02  1.61e-02 -0.052954 1.002
5.61e-04
## 897  2.43e-03 -4.00e-03  6.83e-03 -1.11e-02  1.04e-02  0.022775 1.008
1.04e-04
## 898  1.69e-02 -2.56e-02 -2.33e-03  1.86e-02 -1.53e-02  0.035268 1.007
2.49e-04
## 899  5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02  1.15e-02  0.022742 1.008
1.04e-04
## 900  3.11e-02 -1.82e-02 -2.08e-02  5.40e-04 -1.44e-02  0.038560 1.006
2.98e-04
## 901  3.11e-02 -1.82e-02 -2.08e-02  5.40e-04 -1.44e-02  0.038560 1.006
2.98e-04
## 902 -4.16e-02  4.99e-02  1.67e-03 -1.16e-02  2.37e-02 -0.059956 1.007
7.19e-04
## 903  4.61e-02 -3.56e-02 -1.78e-03 -1.20e-02 -2.04e-02  0.054747 1.007
6.00e-04
## 904  3.55e-03 -1.84e-04  1.79e-02 -2.34e-02  1.10e-02  0.035766 1.013
2.56e-04
## 905 -6.52e-02  1.35e-01  7.90e-02 -1.54e-01  6.35e-02 -0.214684 0.981
9.17e-03
## 906 -5.49e-03  5.39e-03  4.86e-03  1.23e-03  2.28e-03  0.012387 1.007
3.07e-05
## 907  3.27e-02  4.75e-02  1.53e-02 -4.85e-02 -4.91e-02  0.084642 1.015
1.43e-03
## 908 -5.22e-03  9.75e-04  7.78e-03  1.41e-02 -8.00e-03  0.023326 1.008
1.09e-04
## 909 -5.21e-05 -3.22e-03 -2.98e-03  6.23e-03  2.11e-03  0.013714 1.006
3.76e-05
## 910 -9.80e-04  6.63e-03  8.39e-03  2.49e-03 -8.15e-03  0.020565 1.006
8.47e-05
## 911  6.00e-04 -9.96e-03 -1.08e-02  8.55e-03  9.19e-03  0.021077 1.009
8.89e-05
## 912  1.45e-03 -7.25e-03 -2.69e-03 -5.00e-04  9.79e-03  0.017448 1.007
6.09e-05
## 913  2.81e-03  7.75e-03 -3.73e-03  2.42e-03 -7.48e-03  0.019693 1.006
7.76e-05
## 914 -5.28e-03  9.21e-03  1.37e-02 -7.74e-03  2.33e-03  0.020123 1.009
8.11e-05
## 915 -1.31e-03 -7.61e-03  6.18e-03 -3.77e-04  8.76e-03  0.017672 1.008
6.25e-05
## 916  2.92e-02 -6.82e-02  1.67e-02  1.16e-02 -1.94e-02 -0.083393 1.000
1.39e-03
```

```
## 917 -5.33e-03  2.67e-02  9.92e-03  1.84e-03 -3.60e-02 -0.064241 1.001
8.25e-04
## 918  5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02  1.15e-02  0.022742 1.008
1.04e-04
## 919  8.24e-03  4.37e-02  9.81e-03 -3.57e-02 -3.54e-02 -0.075335 1.001
1.13e-03
## 920  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 921 -2.61e-03 -2.32e-03 -2.21e-02  1.46e-02 -5.96e-03 -0.045431 1.000
4.13e-04
## 922  2.81e-03  7.75e-03 -3.73e-03  2.42e-03 -7.48e-03  0.019693 1.006
7.76e-05
## 923 -2.45e-03  1.27e-02 -1.31e-02  7.69e-03 -4.08e-03  0.026087 1.010
1.36e-04
## 924  4.80e-03 -1.72e-02 -2.60e-03  1.32e-02  5.80e-04  0.023571 1.007
1.11e-04
## 925  3.95e-02 -1.32e-03 -2.35e-02 -7.81e-03 -3.26e-02  0.048506 1.007
4.71e-04
## 926  1.64e-02  1.52e-02  1.32e-02 -1.44e-02 -2.78e-02  0.041965 1.008
3.52e-04
## 927  9.75e-03  7.56e-03 -3.93e-03 -1.92e-02  3.90e-03  0.024306 1.007
1.18e-04
## 928 -2.45e-03  1.27e-02 -1.31e-02  7.69e-03 -4.08e-03  0.026087 1.010
1.36e-04
## 929  2.81e-03  7.75e-03 -3.73e-03  2.42e-03 -7.48e-03  0.019693 1.006
7.76e-05
## 930 -2.21e-02  5.65e-02 -1.95e-01 -5.09e-02  1.34e-01 -0.245676 0.985
1.20e-02
## 931  3.26e-02 -2.77e-03 -3.23e-03 -7.43e-03 -3.34e-02  0.041739 1.006
3.49e-04
## 932  2.81e-03  7.75e-03 -3.73e-03  2.42e-03 -7.48e-03  0.019693 1.006
7.76e-05
## 933 -1.91e-03  1.85e-03 -3.26e-03  1.44e-02 -7.44e-03  0.022948 1.007
1.05e-04
## 934  1.05e-02 -1.25e-02 -3.00e-03 -8.75e-05  1.35e-03  0.021221 1.006
9.01e-05
## 935  4.41e-03  1.66e-03 -3.44e-03 -5.31e-03  2.94e-03  0.014526 1.005
4.22e-05
## 936  2.10e-02 -1.79e-02 -2.06e-02  3.22e-02 -3.11e-02  0.053534 1.010
5.74e-04
## 937 -1.88e-02  4.29e-02 -2.28e-02 -3.01e-02  2.65e-02 -0.060780 1.004
7.39e-04
## 938 -3.49e-03  1.64e-03 -4.48e-03  3.66e-03  4.25e-03  0.008408 1.011
1.42e-05
## 939 -8.13e-03 -1.03e-02  1.90e-02  7.42e-03  5.59e-03  0.024221 1.014
1.17e-04
## 940  3.14e-03 -2.89e-02  4.70e-02 -4.64e-03 -1.51e-02 -0.068916 1.001
9.49e-04
## 941  3.11e-02 -1.82e-02 -2.08e-02  5.40e-04 -1.44e-02  0.038560 1.006
2.98e-04
```

```
## 942 -5.21e-05 -3.22e-03 -2.98e-03 6.23e-03 2.11e-03 0.013714 1.006
3.76e-05
## 943 2.14e-03 2.13e-02 9.81e-03 -2.97e-03 -2.12e-02 0.038346 1.009
2.94e-04
## 944 -1.23e-02 -4.62e-03 9.56e-03 1.48e-02 -8.18e-03 -0.040388 1.000
3.26e-04
## 945 -6.22e-03 -7.47e-03 6.31e-03 1.49e-02 7.03e-04 0.019084 1.008
7.29e-05
## 946 -4.80e-03 1.12e-02 -2.73e-03 -1.91e-03 3.18e-03 0.013687 1.009
3.75e-05
## 947 4.44e-03 -6.84e-03 -1.23e-02 -6.32e-04 1.09e-02 0.021763 1.008
9.48e-05
## 948 2.11e-02 1.25e-03 -1.97e-02 -6.92e-03 -1.02e-02 0.030068 1.006
1.81e-04
## 949 -9.80e-04 6.63e-03 8.39e-03 2.49e-03 -8.15e-03 0.020565 1.006
8.47e-05
## 950 4.41e-03 1.66e-03 -3.44e-03 -5.31e-03 2.94e-03 0.014526 1.005
4.22e-05
## 951 -4.19e-03 -1.02e-02 5.51e-03 7.98e-03 7.26e-03 0.017416 1.009
6.07e-05
## 952 -1.61e-02 -2.10e-02 3.90e-02 -5.51e-03 1.59e-02 -0.060977 1.002
7.44e-04
## 953 -5.25e-03 -1.37e-03 3.55e-03 3.21e-03 6.17e-03 0.010331 1.007
2.14e-05
## 954 -8.78e-04 -6.69e-03 -1.22e-02 1.60e-02 2.15e-03 0.022995 1.009
1.06e-04
## 955 -8.92e-04 2.32e-02 6.69e-03 -1.48e-02 -5.13e-03 0.029296 1.010
1.72e-04
## 956 9.15e-03 -2.73e-03 -1.39e-02 -1.22e-02 1.27e-02 0.027163 1.009
1.48e-04
## 957 3.21e-03 -2.55e-03 -1.37e-02 6.34e-03 2.96e-03 0.019473 1.007
7.59e-05
## 958 6.44e-02 -1.61e-02 -2.57e-02 -2.36e-02 -4.03e-02 0.066651 1.008
8.89e-04
## 959 1.44e-02 2.51e-02 1.41e-02 -2.98e-03 -4.57e-02 0.061864 1.011
7.66e-04
## 960 -1.75e-02 1.29e-02 6.23e-03 -1.86e-02 2.16e-02 -0.043263 1.002
3.74e-04
## 961 -5.28e-03 5.18e-03 6.52e-03 -4.05e-03 5.27e-03 0.011252 1.010
2.53e-05
## 962 -8.32e-03 1.58e-04 1.81e-02 1.38e-02 -8.53e-03 0.027967 1.010
1.57e-04
## 963 5.06e-02 7.82e-04 4.68e-02 -3.42e-02 -6.78e-02 0.092629 1.012
1.72e-03
## 964 3.99e-02 -8.39e-03 -2.31e-02 -4.48e-02 -8.67e-03 -0.072803 1.000
1.06e-03
## 965 -1.66e-03 2.04e-03 -2.64e-03 -3.65e-03 8.67e-03 0.012397 1.007
3.08e-05
## 966 -6.48e-04 4.45e-04 1.49e-04 2.22e-04 4.18e-04 0.000833 1.011
1.39e-07
```

```
## 967 1.30e-01 -4.53e-02 -2.98e-02 -4.91e-02 -8.71e-02 0.130669 1.012
3.41e-03
## 968 5.67e-03 -3.39e-03 -3.15e-03 -1.16e-02 1.15e-02 0.022742 1.008
1.04e-04
## 969 9.00e-03 -6.64e-03 -3.19e-03 9.54e-03 -1.11e-02 0.022177 1.005
9.84e-05
## 970 6.00e-04 -9.96e-03 -1.08e-02 8.55e-03 9.19e-03 0.021077 1.009
8.89e-05
## 971 -6.82e-04 1.80e-02 -1.10e-02 -1.06e-02 4.91e-03 0.022453 1.012
1.01e-04
## 972 -5.95e-04 -4.57e-03 1.61e-02 -1.06e-02 9.33e-03 0.026437 1.010
1.40e-04
## 973 -3.63e-03 1.44e-03 4.16e-03 -3.38e-03 7.73e-03 0.012219 1.007
2.99e-05
## 974 -3.41e-03 -5.09e-03 2.47e-02 -1.01e-02 8.33e-03 0.031948 1.014
2.04e-04
## 975 1.17e-02 -1.75e-02 -2.81e-03 -8.30e-03 1.19e-02 0.032277 1.009
2.09e-04
## 976 1.17e-03 -5.60e-04 -1.06e-03 -3.21e-04 -5.23e-04 -0.001564 1.015
4.90e-07
## 977 -3.93e-03 1.24e-03 -1.19e-03 3.26e-03 3.55e-03 0.006388 1.009
8.17e-06
## 978 -3.24e-03 6.24e-03 -3.02e-03 1.19e-03 2.98e-03 0.012303 1.006
3.03e-05
## 979 6.00e-04 -9.96e-03 -1.08e-02 8.55e-03 9.19e-03 0.021077 1.009
8.89e-05
## 980 -3.93e-03 1.24e-03 -1.19e-03 3.26e-03 3.55e-03 0.006388 1.009
8.17e-06
## 981 4.80e-03 -1.72e-02 -2.60e-03 1.32e-02 5.80e-04 0.023571 1.007
1.11e-04
## 982 1.83e-02 -3.14e-02 -2.23e-03 7.10e-03 -9.18e-04 0.037119 1.008
2.76e-04
## 983 2.22e-02 -5.96e-03 -1.84e-02 -1.64e-02 3.38e-03 0.033813 1.008
2.29e-04
## 984 7.37e-03 -1.17e-02 -1.66e-02 2.38e-02 -1.03e-02 0.034762 1.009
2.42e-04
## 985 1.32e-02 -3.18e-02 1.30e-02 7.11e-03 -2.01e-03 0.038457 1.009
2.96e-04
## 986 -1.48e-03 -2.37e-02 7.82e-03 1.47e-02 7.71e-03 0.029755 1.012
1.77e-04
## 987 -7.55e-03 2.06e-02 -8.15e-02 3.11e-02 1.92e-03 -0.099070 1.008
1.96e-03
## 988 -3.00e-02 -4.14e-03 1.01e-02 7.00e-02 -3.72e-02 -0.092337 1.005
1.70e-03
## 989 1.30e-03 6.13e-03 -3.16e-03 -1.30e-02 1.05e-02 0.018910 1.009
7.16e-05
## 990 -5.00e-03 -3.09e-03 -1.70e-03 7.99e-03 5.47e-03 0.011442 1.009
2.62e-05
## 991 1.51e-02 -1.19e-02 -1.68e-02 -2.52e-04 2.39e-03 0.027394 1.007
1.50e-04
```

```

## 992  1.48e-02  2.41e-03 -1.55e-02 -2.62e-02  1.47e-02  0.037498 1.012
2.81e-04
## 993 -1.01e-02 -4.34e-02  4.60e-02  3.14e-02 -1.64e-02 -0.073644 1.002
1.08e-03
## 994  3.21e-03 -2.55e-03 -1.37e-02  6.34e-03  2.96e-03  0.019473 1.007
7.59e-05
## 995 -1.66e-03  2.04e-03 -2.64e-03 -3.65e-03  8.67e-03  0.012397 1.007
3.08e-05
## 996  3.02e-02  9.94e-04 -2.00e-02 -3.49e-02  4.50e-03  0.047268 1.010
4.47e-04
## 997  4.13e-02 -1.85e-02 -2.12e-02 -3.11e-02  2.20e-03  0.056625 1.010
6.42e-04
## 998  8.98e-04  7.98e-04  7.59e-03 -5.01e-03  2.05e-03  0.015632 1.006
4.89e-05
## 999 -4.31e-03  5.96e-03  2.49e-03 -4.45e-03  6.05e-03  0.010251 1.009
2.10e-05
## 1000 -6.26e-03  1.01e-02  3.10e-03 -1.73e-03  2.57e-03  0.012978 1.009
3.37e-05
## 1001  4.42e-03 -7.52e-03  1.10e-02  9.47e-03 -1.18e-02  0.024060 1.006
1.16e-04
## 1002  1.50e-03  1.91e-02 -1.48e-02 -3.00e-03 -3.97e-03  0.027923 1.010
1.56e-04
## 1003  3.98e-03  7.04e-03 -1.18e-02 -1.37e-02  1.16e-02  0.022807 1.010
1.04e-04
## 1004  5.24e-02 -3.29e-02 -2.18e-02 -4.35e-03 -4.97e-02 -0.079244 0.998
1.25e-03
## 1005  1.29e-02  1.61e-02 -1.82e-02 -1.24e-02 -6.62e-03  0.030693 1.008
1.89e-04
## 1006 -4.80e-03  1.12e-02 -2.73e-03 -1.91e-03  3.18e-03  0.013687 1.009
3.75e-05
## 1007 -3.30e-02 -3.55e-02  2.94e-02  4.36e-03  5.48e-02 -0.082211 1.011
1.35e-03
## 1008 -4.01e-02  5.25e-02  3.08e-02 -1.20e-02 -3.77e-04 -0.071338 1.006
1.02e-03
## 1009  8.98e-04  7.98e-04  7.59e-03 -5.01e-03  2.05e-03  0.015632 1.006
4.89e-05
## 1010  2.42e-02  5.48e-03  1.74e-02  6.27e-03 -5.41e-02  0.063118 1.010
7.97e-04
##          hat inf
## 1      0.00742
## 2      0.00404
## 3      0.00281
## 4      0.00621
## 5      0.00350
## 6      0.00410
## 7      0.00456
## 8      0.00243
## 9      0.00374
## 10     0.00838
## 11     0.00181

```

## 12	0.00638	
## 13	0.00505	
## 14	0.00614	
## 15	0.00483	
## 16	0.00281	*
## 17	0.00261	
## 18	0.00171	
## 19	0.00606	
## 20	0.00324	
## 21	0.00416	
## 22	0.00638	
## 23	0.00181	
## 24	0.00305	
## 25	0.00374	
## 26	0.00805	
## 27	0.00880	
## 28	0.00506	
## 29	0.00688	
## 30	0.00342	
## 31	0.00197	
## 32	0.00439	
## 33	0.00251	
## 34	0.00348	
## 35	0.00243	
## 36	0.00426	
## 37	0.00664	
## 38	0.00618	
## 39	0.00443	
## 40	0.00450	
## 41	0.00905	
## 42	0.01831	*
## 43	0.00623	
## 44	0.00451	
## 45	0.00177	
## 46	0.00434	
## 47	0.00422	
## 48	0.00261	
## 49	0.00442	
## 50	0.00404	
## 51	0.00848	
## 52	0.00365	
## 53	0.01034	*
## 54	0.00410	
## 55	0.01034	*
## 56	0.00195	
## 57	0.00663	
## 58	0.00433	
## 59	0.00917	
## 60	0.00305	
## 61	0.00283	

## 62	0.00543	
## 63	0.00606	
## 64	0.00980	
## 65	0.00376	
## 66	0.00274	
## 67	0.00318	
## 68	0.00860	*
## 69	0.00239	
## 70	0.01049	
## 71	0.00435	
## 72	0.00993	
## 73	0.00623	
## 74	0.00576	
## 75	0.00950	
## 76	0.00957	
## 77	0.00754	
## 78	0.00578	
## 79	0.00318	
## 80	0.00586	
## 81	0.00305	
## 82	0.00424	
## 83	0.00769	
## 84	0.00733	
## 85	0.00842	
## 86	0.00158	
## 87	0.00313	
## 88	0.00450	
## 89	0.00733	
## 90	0.00239	
## 91	0.00128	
## 92	0.01098	*
## 93	0.00592	
## 94	0.01362	*
## 95	0.00526	
## 96	0.00161	
## 97	0.00556	
## 98	0.00950	
## 99	0.00858	*
## 100	0.00471	
## 101	0.00313	
## 102	0.00508	
## 103	0.00729	
## 104	0.00875	
## 105	0.00324	
## 106	0.00508	
## 107	0.00476	
## 108	0.00556	
## 109	0.00285	
## 110	0.00281	
## 111	0.00698	

##	112	0.00260	
##	113	0.00252	
##	114	0.00177	*
##	115	0.00392	
##	116	0.00577	
##	117	0.00281	
##	118	0.00625	
##	119	0.00441	
##	120	0.00358	
##	121	0.00781	
##	122	0.00327	
##	123	0.00772	
##	124	0.00258	
##	125	0.00746	
##	126	0.00324	
##	127	0.00311	*
##	128	0.00171	
##	129	0.00733	
##	130	0.00544	
##	131	0.00505	
##	132	0.00468	
##	133	0.00261	
##	134	0.00850	
##	135	0.00281	
##	136	0.00404	
##	137	0.00226	
##	138	0.00313	
##	139	0.00943	
##	140	0.00443	
##	141	0.00139	
##	142	0.00548	*
##	143	0.00311	
##	144	0.00177	
##	145	0.00376	
##	146	0.00627	*
##	147	0.00434	
##	148	0.00239	
##	149	0.00537	
##	150	0.00998	*
##	151	0.00281	
##	152	0.00422	
##	153	0.00396	
##	154	0.00529	*
##	155	0.00729	
##	156	0.00281	
##	157	0.00498	
##	158	0.00370	
##	159	0.00292	
##	160	0.00476	
##	161	0.00772	

##	162	0.00362	
##	163	0.00772	
##	164	0.00292	
##	165	0.00177	
##	166	0.00814	
##	167	0.00714	
##	168	0.00128	*
##	169	0.00311	
##	170	0.00404	
##	171	0.00236	
##	172	0.00261	
##	173	0.00410	
##	174	0.00544	
##	175	0.01994	*
##	176	0.00615	
##	177	0.00758	
##	178	0.00962	
##	179	0.00508	
##	180	0.01281	*
##	181	0.00505	
##	182	0.00260	
##	183	0.00313	
##	184	0.00181	
##	185	0.00381	
##	186	0.00442	*
##	187	0.00846	
##	188	0.00697	
##	189	0.00202	*
##	190	0.00700	
##	191	0.00285	
##	192	0.01511	*
##	193	0.00424	
##	194	0.00962	
##	195	0.00455	
##	196	0.00334	
##	197	0.00283	
##	198	0.00493	
##	199	0.00431	
##	200	0.00617	
##	201	0.00261	
##	202	0.00848	
##	203	0.00783	
##	204	0.00305	
##	205	0.00433	
##	206	0.00525	
##	207	0.00539	
##	208	0.00305	
##	209	0.00139	
##	210	0.00637	
##	211	0.00998	*

##	212	0.00733	
##	213	0.00508	
##	214	0.00411	
##	215	0.00281	
##	216	0.00803	*
##	217	0.00752	
##	218	0.00318	
##	219	0.00447	
##	220	0.01049	
##	221	0.00933	
##	222	0.00860	
##	223	0.00427	
##	224	0.00422	
##	225	0.00362	
##	226	0.00410	
##	227	0.00998	*
##	228	0.00520	
##	229	0.00746	
##	230	0.00195	
##	231	0.01259	*
##	232	0.00243	
##	233	0.00528	
##	234	0.00177	
##	235	0.00476	
##	236	0.00615	
##	237	0.00171	*
##	238	0.00195	
##	239	0.00647	
##	240	0.00488	
##	241	0.00437	*
##	242	0.00352	
##	243	0.00331	*
##	244	0.00742	
##	245	0.00577	
##	246	0.00236	
##	247	0.00243	
##	248	0.00239	
##	249	0.00450	
##	250	0.00627	
##	251	0.00181	
##	252	0.00577	
##	253	0.00362	
##	254	0.00756	
##	255	0.00456	
##	256	0.00838	
##	257	0.00842	
##	258	0.00403	
##	259	0.00729	
##	260	0.00158	*
##	261	0.00202	*

##	262	0.00489	
##	263	0.00604	
##	264	0.00434	
##	265	0.00365	*
##	266	0.00576	
##	267	0.00171	
##	268	0.00504	
##	269	0.00576	
##	270	0.00374	
##	271	0.00243	
##	272	0.00313	
##	273	0.00594	
##	274	0.00177	
##	275	0.00408	
##	276	0.00158	
##	277	0.00575	
##	278	0.00483	
##	279	0.00679	
##	280	0.00195	
##	281	0.00632	
##	282	0.00488	
##	283	0.00826	
##	284	0.00177	
##	285	0.01351	*
##	286	0.00558	
##	287	0.00139	
##	288	0.00261	
##	289	0.00854	
##	290	0.00177	
##	291	0.00311	
##	292	0.00258	
##	293	0.00434	
##	294	0.00660	
##	295	0.00194	
##	296	0.00243	
##	297	0.00569	
##	298	0.00437	
##	299	0.00390	
##	300	0.00627	
##	301	0.01075	
##	302	0.00729	
##	303	0.00727	
##	304	0.00362	
##	305	0.00283	
##	306	0.00416	
##	307	0.00544	
##	308	0.00764	
##	309	0.00390	
##	310	0.00243	
##	311	0.00311	

##	312	0.01034	*
##	313	0.00305	*
##	314	0.00368	
##	315	0.00727	
##	316	0.01367	*
##	317	0.00378	
##	318	0.00699	
##	319	0.00878	
##	320	0.00313	
##	321	0.00239	
##	322	0.00243	
##	323	0.00381	
##	324	0.00659	
##	325	0.00318	
##	326	0.00370	
##	327	0.00331	
##	328	0.00381	
##	329	0.00433	
##	330	0.00177	
##	331	0.00378	
##	332	0.00416	
##	333	0.00340	
##	334	0.00331	
##	335	0.00386	
##	336	0.00197	
##	337	0.00490	
##	338	0.00663	
##	339	0.00258	
##	340	0.00381	
##	341	0.00592	
##	342	0.00826	
##	343	0.00161	
##	344	0.00895	
##	345	0.00894	
##	346	0.00177	
##	347	0.00610	
##	348	0.00139	
##	349	0.00992	
##	350	0.00583	
##	351	0.00177	*
##	352	0.00427	
##	353	0.00505	
##	354	0.00468	
##	355	0.00171	
##	356	0.00447	
##	357	0.00450	
##	358	0.00422	
##	359	0.00693	
##	360	0.00489	
##	361	0.00555	

##	362	0.00929	
##	363	0.00313	
##	364	0.00548	
##	365	0.00305	*
##	366	0.00660	
##	367	0.00392	
##	368	0.00558	
##	369	0.00435	
##	370	0.00988	
##	371	0.00450	
##	372	0.01034	*
##	373	0.00285	
##	374	0.00722	
##	375	0.00435	
##	376	0.00292	
##	377	0.00790	
##	378	0.00313	
##	379	0.00434	
##	380	0.00565	
##	381	0.00197	
##	382	0.00381	
##	383	0.00860	
##	384	0.00281	
##	385	0.00374	
##	386	0.00694	
##	387	0.00243	
##	388	0.00583	
##	389	0.00553	
##	390	0.00340	
##	391	0.00826	
##	392	0.00202	
##	393	0.00226	
##	394	0.00806	
##	395	0.00251	
##	396	0.00251	
##	397	0.00397	
##	398	0.01357	*
##	399	0.00361	
##	400	0.00525	
##	401	0.00471	
##	402	0.00505	
##	403	0.00998	*
##	404	0.00236	*
##	405	0.00793	
##	406	0.00392	
##	407	0.00818	
##	408	0.00252	
##	409	0.00944	
##	410	0.00543	
##	411	0.00305	

##	412	0.00427	
##	413	0.00374	
##	414	0.00197	
##	415	0.00350	
##	416	0.00558	
##	417	0.00526	
##	418	0.00925	
##	419	0.01068	
##	420	0.00577	
##	421	0.00638	
##	422	0.00598	
##	423	0.00905	
##	424	0.00331	
##	425	0.00683	
##	426	0.00376	
##	427	0.00638	
##	428	0.00361	
##	429	0.00456	
##	430	0.00505	
##	431	0.00171	
##	432	0.00754	
##	433	0.00660	
##	434	0.00489	
##	435	0.00439	
##	436	0.00615	
##	437	0.00283	
##	438	0.00352	
##	439	0.00771	
##	440	0.00529	
##	441	0.00311	
##	442	0.00331	
##	443	0.00292	
##	444	0.00251	
##	445	0.00322	
##	446	0.00318	
##	447	0.00378	
##	448	0.01365	*
##	449	0.00177	
##	450	0.00158	
##	451	0.00350	
##	452	0.00139	
##	453	0.00439	
##	454	0.00194	
##	455	0.00483	
##	456	0.00411	
##	457	0.00442	
##	458	0.00305	
##	459	0.01463	*
##	460	0.00334	
##	461	0.00422	

##	462	0.00512	
##	463	0.00374	
##	464	0.00490	
##	465	0.00260	
##	466	0.00665	
##	467	0.00292	
##	468	0.00447	
##	469	0.00243	
##	470	0.00526	
##	471	0.00532	
##	472	0.00378	
##	473	0.00348	*
##	474	0.00556	
##	475	0.00569	
##	476	0.00239	
##	477	0.00483	
##	478	0.00505	
##	479	0.00396	
##	480	0.00128	
##	481	0.00443	
##	482	0.01272	*
##	483	0.00305	*
##	484	0.00243	
##	485	0.00261	
##	486	0.00305	
##	487	0.00358	*
##	488	0.01711	*
##	489	0.00498	
##	490	0.00381	
##	491	0.00340	
##	492	0.00139	
##	493	0.00433	
##	494	0.00439	
##	495	0.00381	
##	496	0.00404	
##	497	0.00161	*
##	498	0.00450	
##	499	0.00296	
##	500	0.00525	
##	501	0.00842	
##	502	0.00698	
##	503	0.00637	
##	504	0.00283	
##	505	0.00987	
##	506	0.00431	
##	507	0.00621	
##	508	0.00747	
##	509	0.00548	
##	510	0.01286	
##	511	0.00403	

##	512	0.00274	
##	513	0.01414	
##	514	0.00251	
##	515	0.01098	*
##	516	0.00313	
##	517	0.00443	
##	518	0.00261	
##	519	0.00292	
##	520	0.01083	
##	521	0.00468	
##	522	0.00958	
##	523	0.00195	
##	524	0.01335	*
##	525	0.00505	
##	526	0.00258	*
##	527	0.00261	
##	528	0.00261	
##	529	0.00558	
##	530	0.00505	
##	531	0.01205	*
##	532	0.00931	
##	533	0.00177	
##	534	0.00374	
##	535	0.00224	
##	536	0.00450	
##	537	0.00647	
##	538	0.00128	
##	539	0.00139	
##	540	0.00243	
##	541	0.00958	
##	542	0.00340	
##	543	0.00396	
##	544	0.00311	
##	545	0.00410	
##	546	0.00202	
##	547	0.00243	
##	548	0.00904	
##	549	0.00568	
##	550	0.00569	
##	551	0.00838	
##	552	0.00422	
##	553	0.00325	
##	554	0.00641	*
##	555	0.00397	
##	556	0.00917	
##	557	0.00790	
##	558	0.00327	
##	559	0.00468	
##	560	0.00862	
##	561	0.00226	

##	562	0.00197	
##	563	0.00408	
##	564	0.00450	
##	565	0.01704	*
##	566	0.00529	
##	567	0.00493	
##	568	0.00252	
##	569	0.00435	
##	570	0.00464	
##	571	0.00274	
##	572	0.00667	*
##	573	0.00274	
##	574	0.00422	
##	575	0.00541	
##	576	0.00506	
##	577	0.00161	
##	578	0.00252	
##	579	0.00576	
##	580	0.00422	
##	581	0.01351	
##	582	0.00194	
##	583	0.00517	*
##	584	0.00659	
##	585	0.00350	
##	586	0.00158	
##	587	0.00854	
##	588	0.00398	
##	589	0.01035	
##	590	0.00842	
##	591	0.00239	
##	592	0.00765	
##	593	0.00765	
##	594	0.00410	
##	595	0.00236	
##	596	0.00752	
##	597	0.00318	
##	598	0.00411	
##	599	0.00243	
##	600	0.00443	
##	601	0.00392	
##	602	0.00714	
##	603	0.00292	
##	604	0.00139	
##	605	0.00139	
##	606	0.01098	*
##	607	0.00331	
##	608	0.00292	*
##	609	0.01521	*
##	610	0.00161	
##	611	0.00243	

##	612	0.00381	
##	613	0.00688	
##	614	0.00128	
##	615	0.00311	
##	616	0.00264	
##	617	0.00526	*
##	618	0.00128	
##	619	0.00727	
##	620	0.00202	
##	621	0.00392	
##	622	0.01037	
##	623	0.00606	
##	624	0.00845	
##	625	0.00558	
##	626	0.00614	
##	627	0.00252	
##	628	0.01181	
##	629	0.00374	
##	630	0.00403	
##	631	0.00424	
##	632	0.00548	
##	633	0.00226	
##	634	0.00772	
##	635	0.00421	
##	636	0.00370	
##	637	0.00697	
##	638	0.00659	
##	639	0.00450	
##	640	0.00786	
##	641	0.00577	
##	642	0.00224	
##	643	0.00464	
##	644	0.00305	
##	645	0.00365	
##	646	0.00408	
##	647	0.00261	
##	648	0.00490	
##	649	0.00906	
##	650	0.00525	
##	651	0.00471	
##	652	0.00252	
##	653	0.00331	
##	654	0.00239	
##	655	0.00350	
##	656	0.00239	
##	657	0.00381	
##	658	0.00439	
##	659	0.00963	
##	660	0.00483	
##	661	0.00362	

##	662	0.00756	
##	663	0.00139	
##	664	0.00224	
##	665	0.01075	
##	666	0.00526	
##	667	0.00505	
##	668	0.00878	
##	669	0.00526	
##	670	0.00252	
##	671	0.00161	
##	672	0.00202	
##	673	0.00525	*
##	674	0.00552	
##	675	0.00258	
##	676	0.00365	
##	677	0.00785	
##	678	0.00181	
##	679	0.00410	
##	680	0.00660	
##	681	0.00422	
##	682	0.00385	
##	683	0.00177	
##	684	0.01191	*
##	685	0.00578	
##	686	0.00181	
##	687	0.00370	*
##	688	0.00374	
##	689	0.00313	
##	690	0.00261	
##	691	0.00627	
##	692	0.00243	
##	693	0.00396	
##	694	0.00181	
##	695	0.00258	
##	696	0.00292	
##	697	0.00977	
##	698	0.00376	
##	699	0.00630	
##	700	0.00350	
##	701	0.00671	
##	702	0.01167	*
##	703	0.00709	
##	704	0.00158	
##	705	0.00411	
##	706	0.00858	
##	707	0.00292	
##	708	0.00194	
##	709	0.00722	
##	710	0.00239	
##	711	0.00313	

##	712	0.00171	
##	713	0.00348	
##	714	0.00342	
##	715	0.00693	
##	716	0.00410	
##	717	0.00591	
##	718	0.00704	
##	719	0.00427	
##	720	0.00490	
##	721	0.00408	
##	722	0.00697	
##	723	0.00450	
##	724	0.00292	
##	725	0.00456	
##	726	0.00358	
##	727	0.01135	
##	728	0.00742	
##	729	0.00706	
##	730	0.00362	
##	731	0.00729	
##	732	0.00139	
##	733	0.00352	
##	734	0.00679	
##	735	0.00598	
##	736	0.01365	*
##	737	0.00548	
##	738	0.00128	
##	739	0.00526	
##	740	0.00264	
##	741	0.00396	
##	742	0.00746	
##	743	0.00508	
##	744	0.00285	*
##	745	0.00410	
##	746	0.00342	
##	747	0.00376	
##	748	0.00400	
##	749	0.00158	
##	750	0.00869	
##	751	0.01035	
##	752	0.00848	
##	753	0.00435	
##	754	0.00128	
##	755	0.00447	
##	756	0.00281	
##	757	0.00264	
##	758	0.00854	
##	759	0.00812	
##	760	0.00606	
##	761	0.00577	

##	762	0.00790	
##	763	0.00378	
##	764	0.00239	
##	765	0.00490	
##	766	0.00483	
##	767	0.00880	
##	768	0.00592	*
##	769	0.00292	
##	770	0.00202	*
##	771	0.01351	*
##	772	0.00498	
##	773	0.00468	
##	774	0.00378	
##	775	0.00621	
##	776	0.00305	
##	777	0.00998	*
##	778	0.00490	
##	779	0.00930	
##	780	0.00202	
##	781	0.00261	
##	782	0.00378	
##	783	0.00313	
##	784	0.00924	
##	785	0.00226	
##	786	0.00632	
##	787	0.00243	
##	788	0.00844	
##	789	0.00447	
##	790	0.00313	
##	791	0.00416	
##	792	0.00442	
##	793	0.00128	
##	794	0.00442	*
##	795	0.00674	
##	796	0.01704	*
##	797	0.00917	*
##	798	0.01092	
##	799	0.00243	
##	800	0.00455	
##	801	0.00318	
##	802	0.00705	
##	803	0.00443	
##	804	0.00404	
##	805	0.00555	
##	806	0.00422	
##	807	0.01351	*
##	808	0.00826	
##	809	0.00558	
##	810	0.00754	
##	811	0.00687	

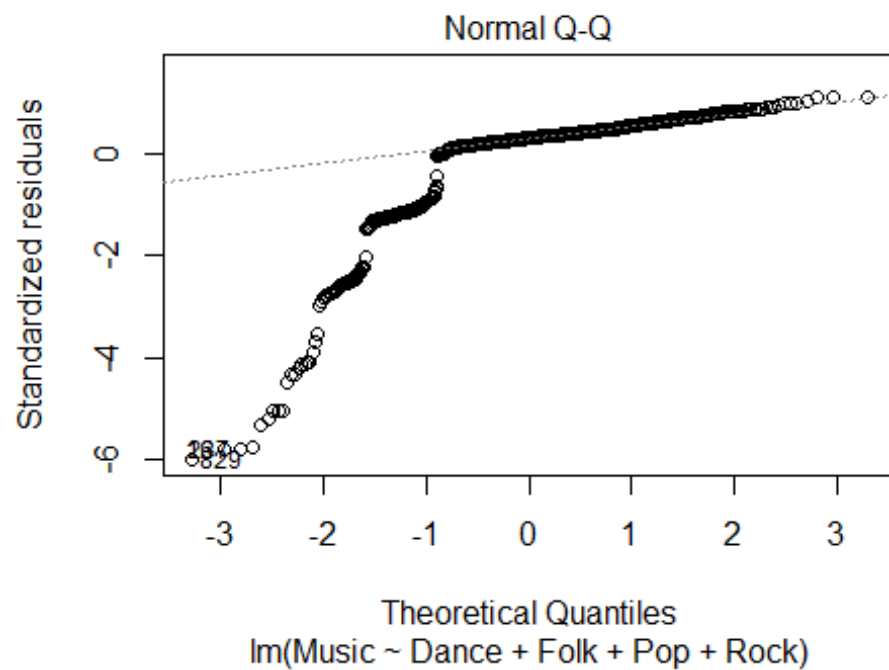
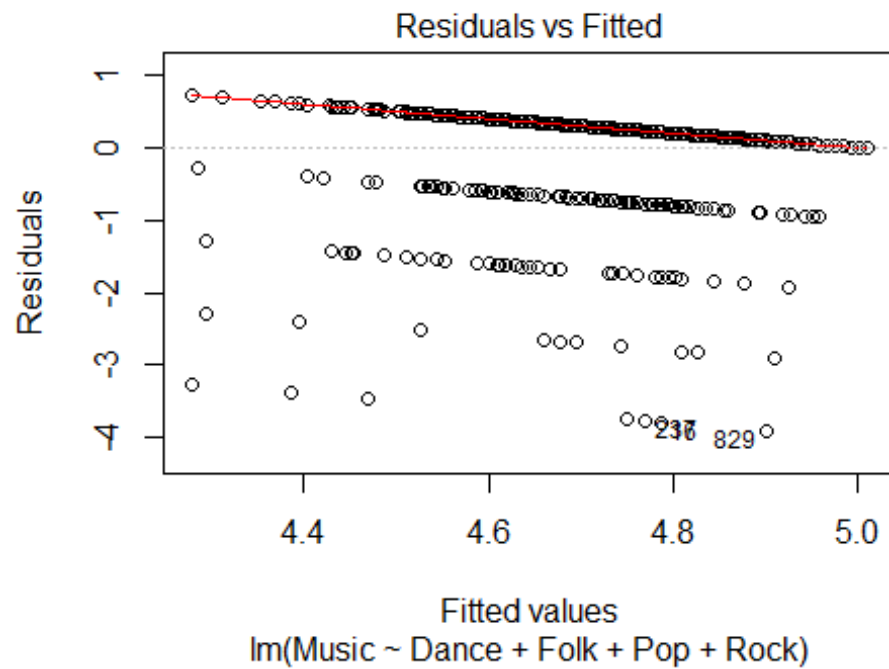
##	812	0.00313	
##	813	0.01351	
##	814	0.00621	
##	815	0.00226	
##	816	0.00410	
##	817	0.00264	
##	818	0.01107	*
##	819	0.00171	
##	820	0.00468	
##	821	0.00281	
##	822	0.00362	
##	823	0.00451	
##	824	0.00340	
##	825	0.00615	
##	826	0.00568	
##	827	0.00264	
##	828	0.00439	
##	829	0.00450	*
##	830	0.00505	
##	831	0.00195	
##	832	0.00292	
##	833	0.00604	
##	834	0.00305	*
##	835	0.00385	
##	836	0.00331	
##	837	0.00483	
##	838	0.00637	
##	839	0.00424	
##	840	0.00195	
##	841	0.00659	
##	842	0.00197	
##	843	0.00305	
##	844	0.00177	
##	845	0.00950	
##	846	0.01004	
##	847	0.00529	
##	848	0.00627	
##	849	0.00404	
##	850	0.01051	*
##	851	0.00471	
##	852	0.00597	
##	853	0.00621	
##	854	0.00464	
##	855	0.00252	
##	856	0.00443	
##	857	0.00243	
##	858	0.00195	
##	859	0.00361	*
##	860	0.00410	
##	861	0.00260	

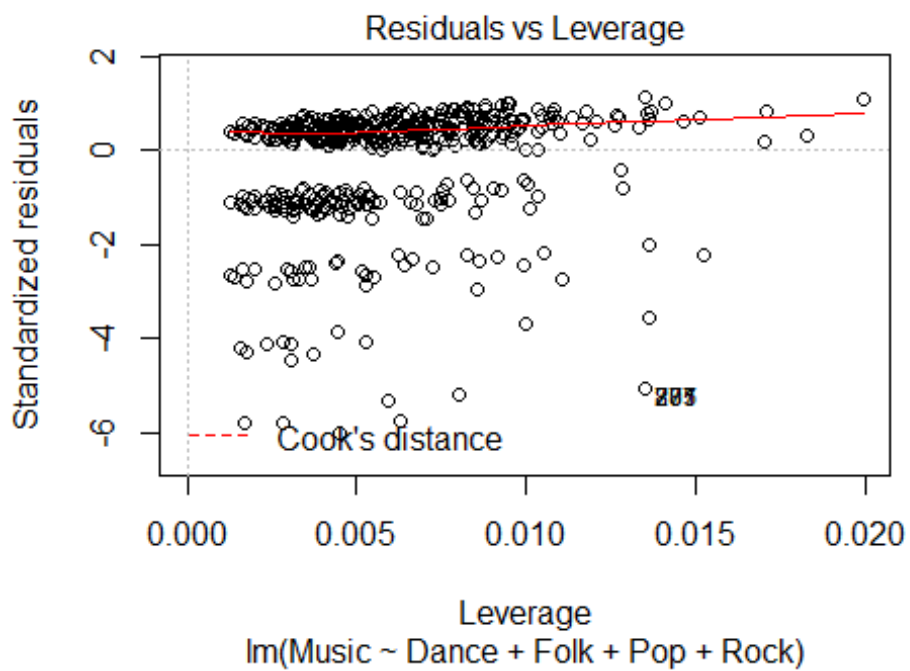
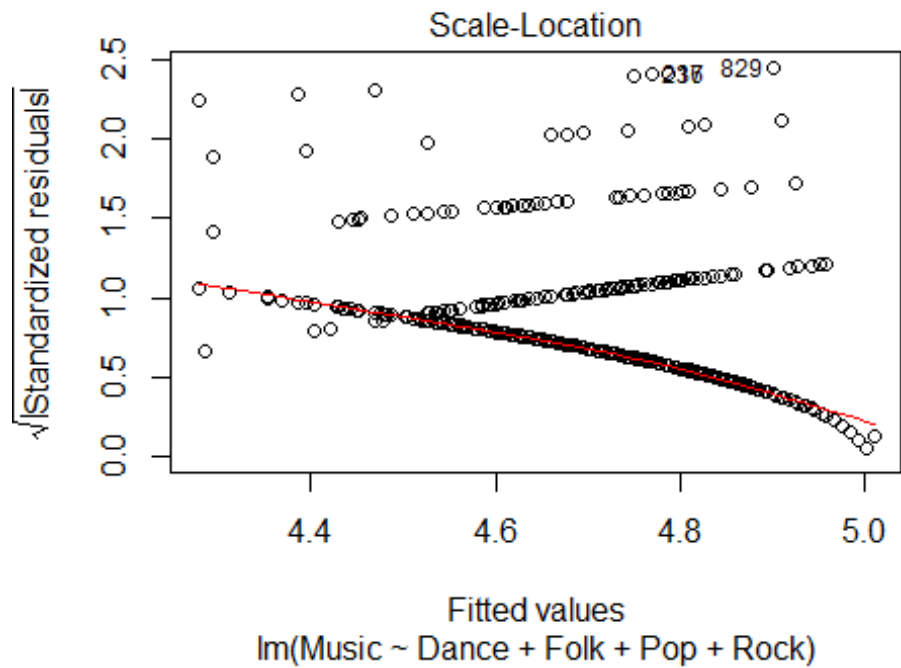
##	862	0.00239	
##	863	0.00292	
##	864	0.00340	
##	865	0.00239	
##	866	0.00260	
##	867	0.00410	
##	868	0.00195	
##	869	0.00357	
##	870	0.00483	
##	871	0.00318	
##	872	0.00239	
##	873	0.00313	
##	874	0.00243	
##	875	0.00783	
##	876	0.00442	
##	877	0.00790	
##	878	0.00769	
##	879	0.00283	
##	880	0.01013	
##	881	0.00783	
##	882	0.00771	
##	883	0.00627	
##	884	0.00292	
##	885	0.00305	
##	886	0.00139	*
##	887	0.00128	
##	888	0.00416	
##	889	0.00139	
##	890	0.00158	
##	891	0.00526	
##	892	0.00197	
##	893	0.00258	
##	894	0.00325	
##	895	0.00374	
##	896	0.00252	
##	897	0.00410	
##	898	0.00348	
##	899	0.00381	
##	900	0.00352	
##	901	0.00352	
##	902	0.00522	
##	903	0.00528	
##	904	0.00869	
##	905	0.00722	*
##	906	0.00197	
##	907	0.01268	*
##	908	0.00350	
##	909	0.00139	
##	910	0.00226	
##	911	0.00483	

##	912	0.00281	
##	913	0.00195	
##	914	0.00432	
##	915	0.00313	
##	916	0.00396	
##	917	0.00281	
##	918	0.00381	
##	919	0.00362	
##	920	0.00128	
##	921	0.00158	
##	922	0.00195	
##	923	0.00569	
##	924	0.00283	
##	925	0.00442	
##	926	0.00447	
##	927	0.00296	
##	928	0.00569	
##	929	0.00195	
##	930	0.00992	*
##	931	0.00340	
##	932	0.00195	
##	933	0.00318	
##	934	0.00194	
##	935	0.00128	
##	936	0.00674	
##	937	0.00404	
##	938	0.00555	
##	939	0.00924	
##	940	0.00311	
##	941	0.00352	
##	942	0.00139	
##	943	0.00558	
##	944	0.00128	
##	945	0.00365	
##	946	0.00396	
##	947	0.00404	
##	948	0.00274	
##	949	0.00226	
##	950	0.00128	
##	951	0.00396	
##	952	0.00318	
##	953	0.00264	
##	954	0.00451	
##	955	0.00541	
##	956	0.00505	
##	957	0.00261	
##	958	0.00621	
##	959	0.00854	
##	960	0.00181	
##	961	0.00546	


```
## 962 0.00537
## 963 0.01085
## 964 0.00313
## 965 0.00239
## 966 0.00575
## 967 0.01351
## 968 0.00381
## 969 0.00181
## 970 0.00483
## 971 0.00688
## 972 0.00594
## 973 0.00258
## 974 0.00931
## 975 0.00526
## 976 0.01034 *
## 977 0.00411
## 978 0.00177
## 979 0.00483
## 980 0.00411
## 981 0.00283
## 982 0.00441
## 983 0.00398
## 984 0.00490
## 985 0.00496
## 986 0.00709
## 987 0.00868
## 988 0.00660
## 989 0.00416
## 990 0.00427
## 991 0.00305
## 992 0.00786
## 993 0.00379
## 994 0.00261
## 995 0.00239
## 996 0.00671
## 997 0.00752
## 998 0.00158
## 999 0.00385
## 1000 0.00403
## 1001 0.00224
## 1002 0.00526
## 1003 0.00552
## 1004 0.00313
## 1005 0.00378
## 1006 0.00396
## 1007 0.00928
## 1008 0.00540
## 1009 0.00158
## 1010 0.00719
```

```
#View(temp)
#diagnostic plots
plot(fit)
```





```
library(car)
```

```
## Warning: package 'car' was built under R version 3.6.2
```

```
## Loading required package: carData

## Registered S3 methods overwritten by 'car':
##   method                                from
##   influence.merMod                      lme4
##   cooks.distance.influence.merMod      lme4
##   dfbeta.influence.merMod              lme4
##   dfbetas.influence.merMod             lme4

##
## Attaching package: 'car'

## The following object is masked from 'package:psych':
##
##   logit

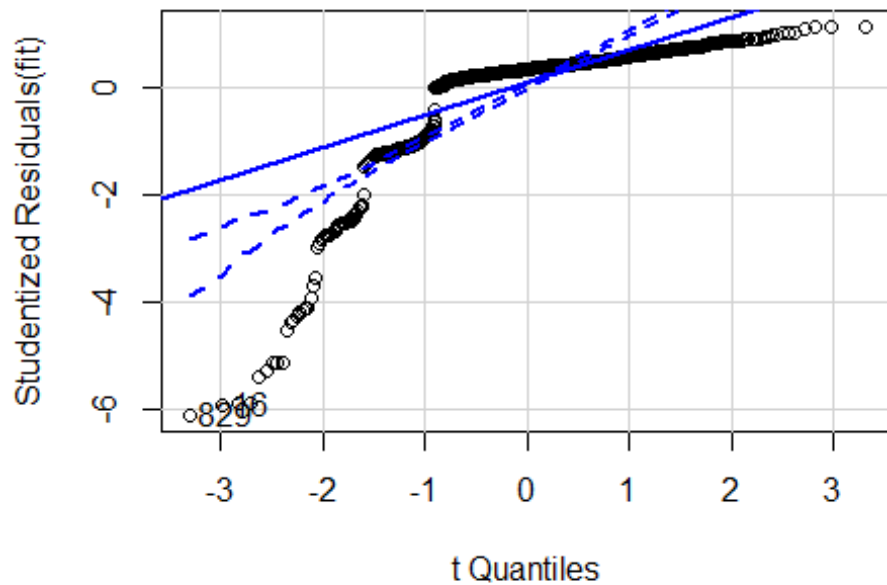
## The following object is masked from 'package:dplyr':
##
##   recode

# Assessing Outliers
outlierTest(fit)

##      rstudent unadjusted p-value Bonferroni p
## 829 -6.112465      1.4023e-09  1.4163e-06
## 16  -5.920677      4.3977e-09  4.4417e-06
## 237 -5.890059      5.2623e-09  5.3149e-06
## 146 -5.872980      5.8144e-09  5.8725e-06
## 768 -5.418935      7.5071e-08  7.5821e-05
## 216 -5.291622      1.4886e-07  1.5035e-04
## 285 -5.132006      3.4407e-07  3.4751e-04
## 771 -5.132006      3.4407e-07  3.4751e-04
## 807 -5.132006      3.4407e-07  3.4751e-04
## 365 -4.518498      6.9682e-06  7.0379e-03

qqPlot(fit, main="QQ Plot")
```

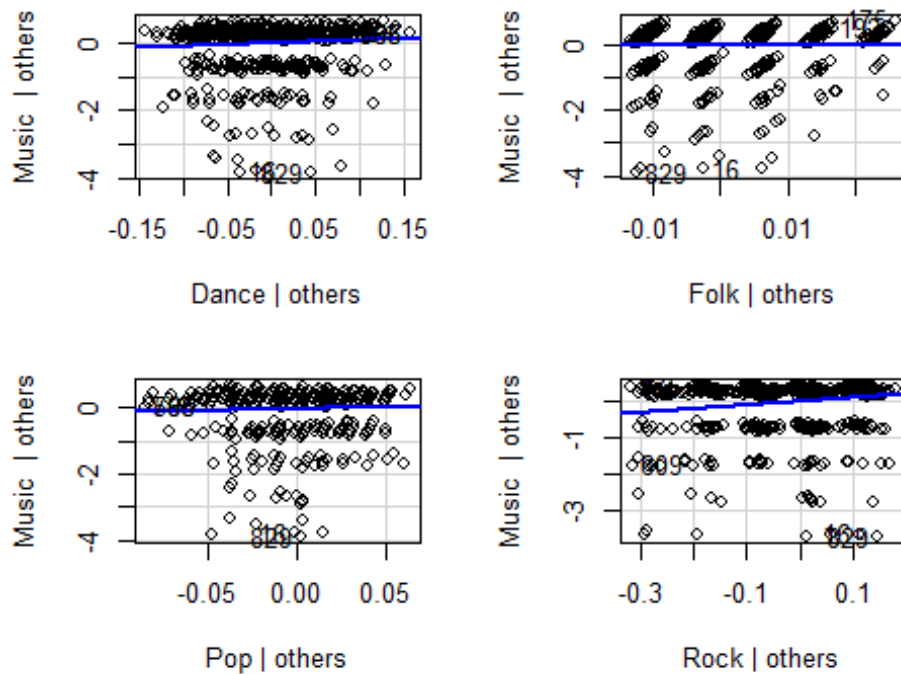
QQ Plot



```
## [1] 16 829
```

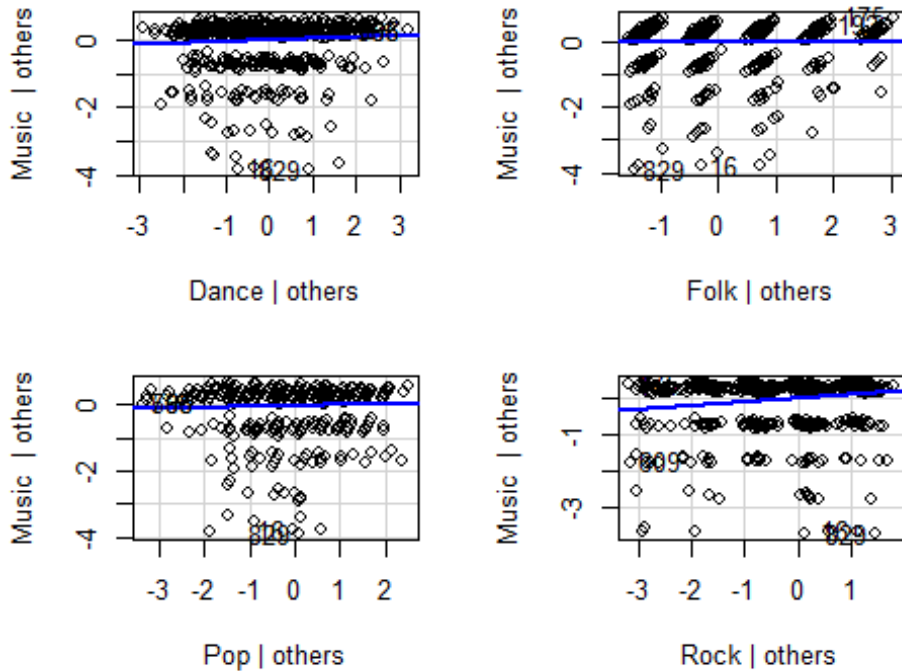
```
leveragePlots(fit) # Leverage plots
```

Leverage Plots

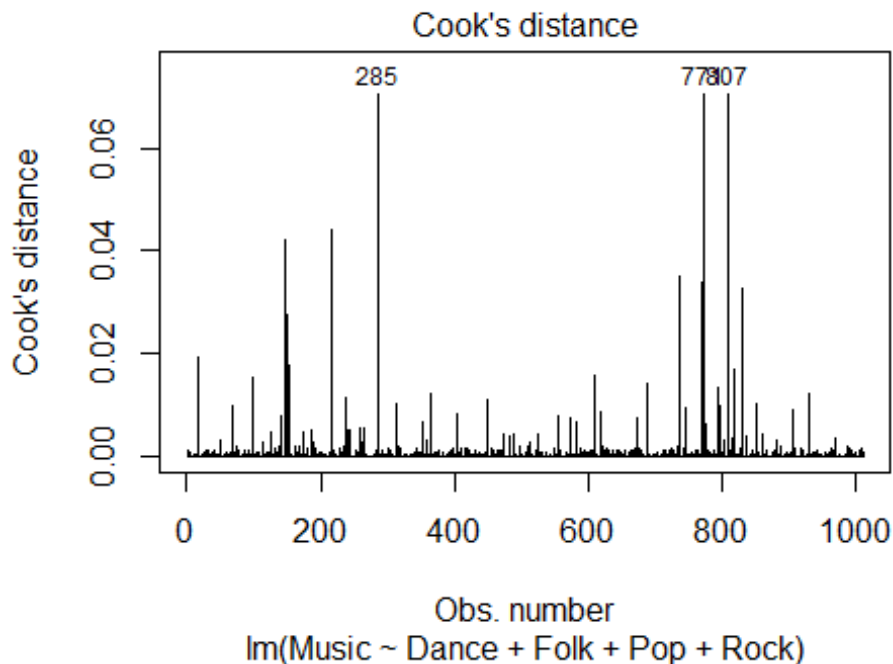


```
# Influential Observations
# added variable plots
avPlots(fit)
```

Added-Variable Plots



```
# Cook's D plot
# identify D values > 4/(n-k-1)
cutoff <- 4/((nrow(music_transformed)-length(fit$coefficients)-2))
plot(fit, which=4, cook.levels=cutoff)
```



```
# Influence Plot
influencePlot(fit, id.method="identify", main="Influence Plot", sub="Circle
size is proportional to Cook's Distance" )

## Warning in plot.window(...): "id.method" is not a graphical parameter

## Warning in plot.xy(xy, type, ...): "id.method" is not a graphical
parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "id.method"
is not
## a graphical parameter

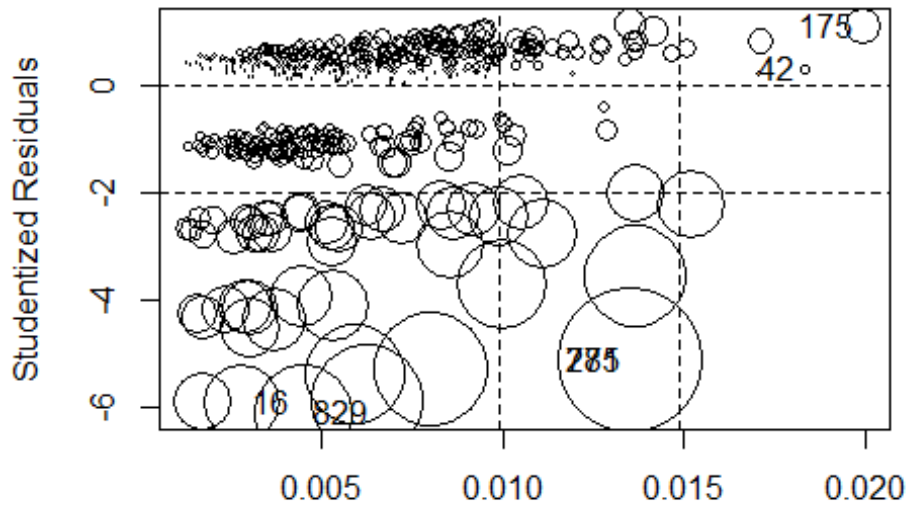
## Warning in axis(side = side, at = at, labels = labels, ...): "id.method"
is not
## a graphical parameter

## Warning in box(...): "id.method" is not a graphical parameter

## Warning in title(...): "id.method" is not a graphical parameter

## Warning in plot.xy(xy.coords(x, y), type = type, ...): "id.method" is not
a
## graphical parameter
```

Influence Plot



Hat-Values

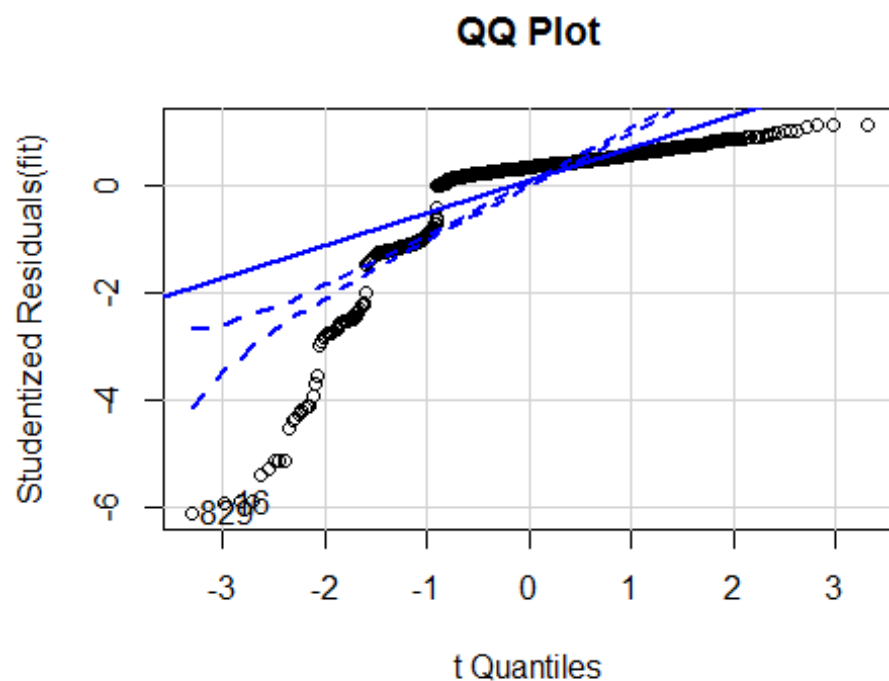
Circle size is proportional to Cook's Distance

##	StudRes	Hat	CookD
## 16	-5.9206771	0.002813165	0.0191301835
## 42	0.2977488	0.018310936	0.0003310249
## 175	1.0671308	0.019943719	0.0046340470
## 285	-5.1320059	0.013514346	0.0703874274
## 771	-5.1320059	0.013514346	0.0703874274
## 829	-6.1124651	0.004500099	0.0325992685

Normality of Residuals

qq plot for studentized resid

`qqPlot(fit, main="QQ Plot")`



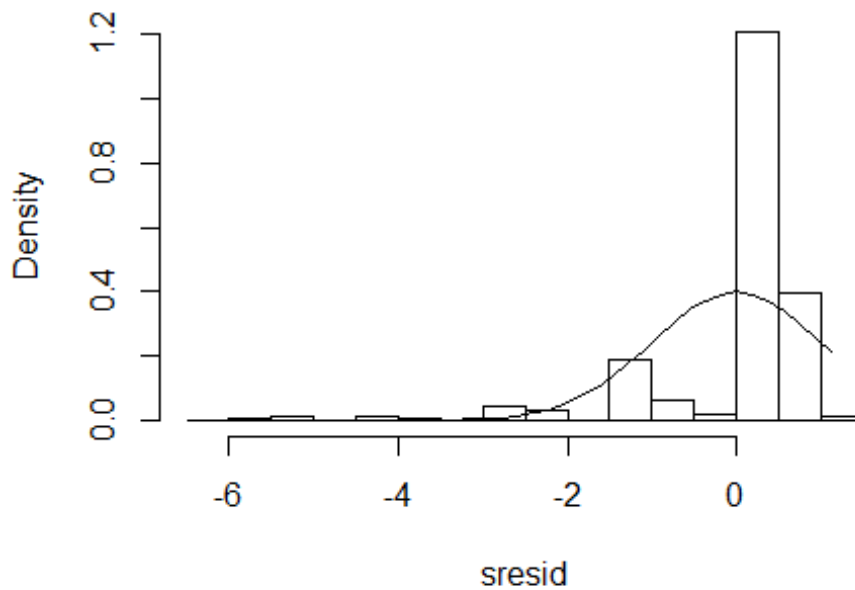
```
## [1] 16 829
# distribution of studentized residuals
library(MASS)

##
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':
##
##      select

sresid <- studres(fit)
hist(sresid, freq=FALSE,
     main="Distribution of Studentized Residuals")
xfit<-seq(min(sresid),max(sresid),length=40)
yfit<-dnorm(xfit)
lines(xfit, yfit)
```

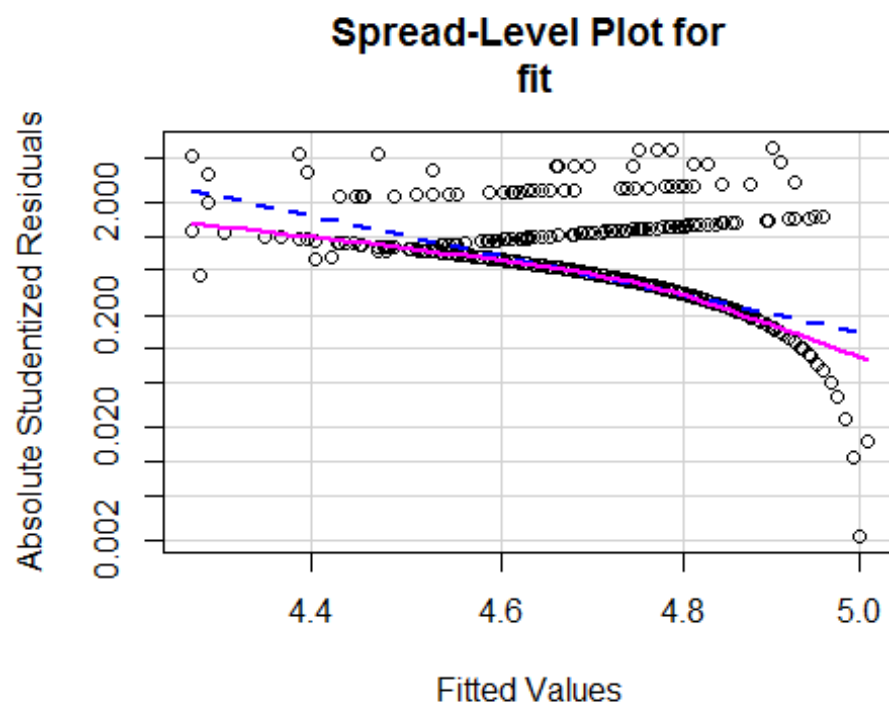
Distribution of Studentized Residuals



```
#Non-constant Error Variance
# Evaluate homoscedasticity
# non-constant error variance test
ncvTest(fit)

## Non-constant Variance Score Test
## Variance formula: ~ fitted.values
## Chisquare = 186.2589, Df = 1, p = < 2.22e-16

# plot studentized residuals vs. fitted values
spreadLevelPlot(fit)
```



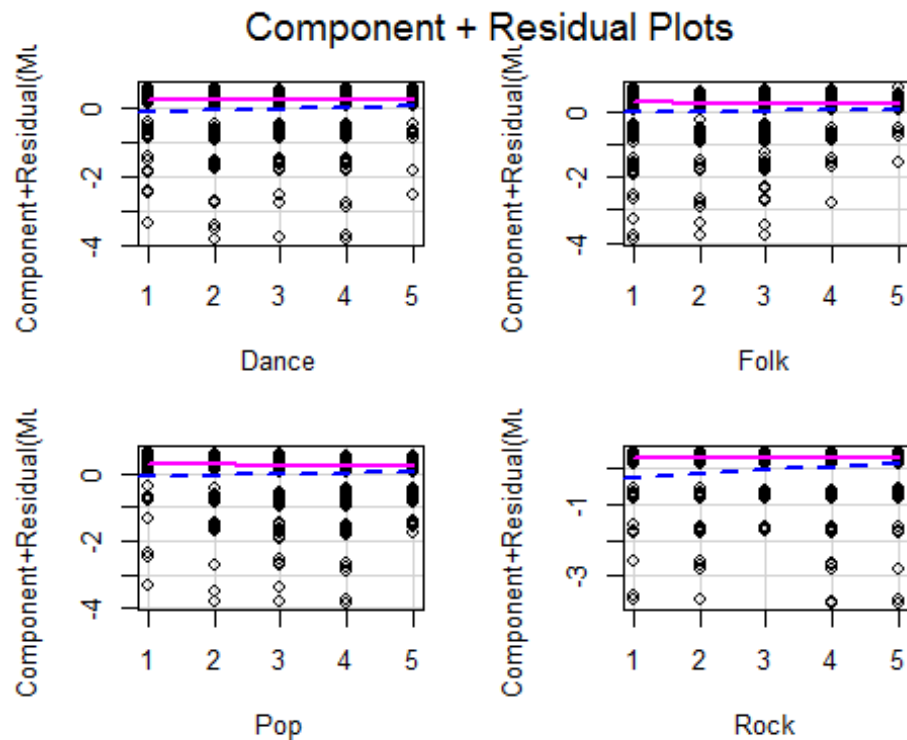
```
##
## Suggested power transformation: 19.69395

#Multi-collinearity
# Evaluate Collinearity
vif(fit) # variance inflation factors

##      Dance      Folk      Pop      Rock
## 1.254015 1.010017 1.224775 1.026496

#sqrt(vif(fit)) > 2

#Nonlinearity
# component + residual plot
crPlots(fit)
```



```
# Ceres plots
```

```
ceresPlots(fit)
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 3
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 1
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 0
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 3
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 1
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 0
```

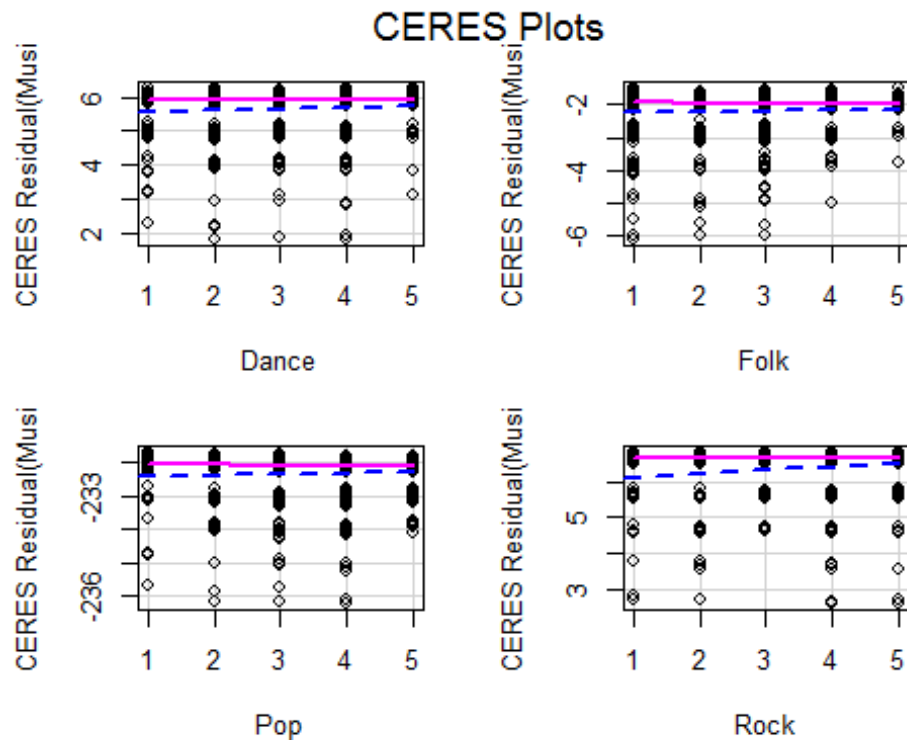
```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 3
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 1
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 0
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 0.98  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 2.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 1.4341e-016  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : There are other near singularities as well. 1  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 0.98  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 2.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 1.4341e-016  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : There are other near singularities as well. 1  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 0.98  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 2.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 1.4341e-016  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : There are other near singularities as well. 1  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 5.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 2.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 1.1959e-016  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : There are other near singularities as well. 1  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 5.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 2.02
```

```
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 1.1959e-016  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : There are other near singularities as well. 1  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 5.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 2.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 1.1959e-016  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : There are other near singularities as well. 1  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 5.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 2.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 1.5311e-016  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : There are other near singularities as well. 1  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : pseudoinverse used at 5.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : neighborhood radius 2.02  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : reciprocal condition number 1.5311e-016  
  
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric =  
## parametric, : There are other near singularities as well. 1
```



#Non-independence of Errors

Test for Autocorrelated Errors

`durbinWatsonTest(fit)`

```
## lag Autocorrelation D-W Statistic p-value
```

```
## 1 0.02657895 1.94623 0.388
```

```
## Alternative hypothesis: rho != 0
```

Global test of model assumptions

`#install.packages("gvlma")`

`library(gvlma)`

`gvmodel <- gvlma(fit)`

`summary(gvmodel)`

```
##
```

```
## Call:
```

```
## lm(formula = Music ~ Dance + Folk + Pop + Rock, data = music_transformed)
```

```
##
```

```
## Residuals:
```

```
##      Min       1Q   Median       3Q      Max
```

```
## -3.9013  0.0985  0.2135  0.3052  0.7219
```

```
##
```

```
## Coefficients:
```

```
##              Estimate Std. Error t value Pr(>|t|)
```

```
## (Intercept)  4.095090   0.106376  38.497  < 2e-16 ***
```

```
## Dance        0.048990   0.019599   2.500   0.0126 *
```

```
## Folk         0.008519   0.018064   0.472   0.6373
```

```

## Pop          0.025551    0.019544    1.307    0.1914
## Rock          0.099906    0.017557    5.690 1.66e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6512 on 1005 degrees of freedom
## Multiple R-squared:  0.04085,    Adjusted R-squared:  0.03704
## F-statistic: 10.7 on 4 and 1005 DF,  p-value: 1.698e-08
##
##
## ASSESSMENT OF THE LINEAR MODEL ASSUMPTIONS
## USING THE GLOBAL TEST ON 4 DEGREES-OF-FREEDOM:
## Level of Significance = 0.05
##
## Call:
## gvlma(x = fit)
##
##              Value    p-value              Decision
## Global Stat      5670.911 0.0000000 Assumptions NOT satisfied!
## Skewness         1415.112 0.0000000 Assumptions NOT satisfied!
## Kurtosis         4240.094 0.0000000 Assumptions NOT satisfied!
## Link Function      12.359 0.0004389 Assumptions NOT satisfied!
## Heteroscedasticity 3.346 0.0673552 Assumptions acceptable.

fit

##
## Call:
## lm(formula = Music ~ Dance + Folk + Pop + Rock, data = music_transformed)
##
## Coefficients:
## (Intercept)      Dance      Folk      Pop      Rock
##  4.095090    0.048990    0.008519    0.025551    0.099906

summary(fit)

##
## Call:
## lm(formula = Music ~ Dance + Folk + Pop + Rock, data = music_transformed)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.9013  0.0985  0.2135  0.3052  0.7219
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  4.095090   0.106376  38.497 < 2e-16 ***
## Dance        0.048990   0.019599   2.500  0.0126 *
## Folk         0.008519   0.018064   0.472  0.6373
## Pop          0.025551   0.019544   1.307  0.1914
## Rock         0.099906   0.017557   5.690 1.66e-08 ***

```



```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6512 on 1005 degrees of freedom
## Multiple R-squared:  0.04085,    Adjusted R-squared:  0.03704
## F-statistic: 10.7 on 4 and 1005 DF,  p-value: 1.698e-08

fit1 <- fit
fit2 <- lm(Music~Dance+Folk+Pop, data = music_transformed)

# compare models
anova(fit1, fit2)

## Analysis of Variance Table
##
## Model 1: Music ~ Dance + Folk + Pop + Rock
## Model 2: Music ~ Dance + Folk + Pop
##   Res.Df    RSS Df Sum of Sq    F    Pr(>F)
## 1    1005 426.14
## 2    1006 439.86 -1    -13.73 32.381 1.662e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

step <- stepAIC(fit, direction="both")

## Start:  AIC=-861.58
## Music ~ Dance + Folk + Pop + Rock
##
##           Df Sum of Sq    RSS    AIC
## - Folk     1     0.0943 426.23 -863.36
## - Pop      1     0.7247 426.86 -861.86
## <none>                426.14 -861.58
## - Dance    1     2.6492 428.78 -857.32
## - Rock     1    13.7299 439.86 -831.55
##
## Step:  AIC=-863.36
## Music ~ Dance + Pop + Rock
##
##           Df Sum of Sq    RSS    AIC
## - Pop      1     0.7187 426.95 -863.65
## <none>                426.23 -863.36
## + Folk     1     0.0943 426.14 -861.58
## - Dance    1     2.7390 428.97 -858.89
## - Rock     1    13.9717 440.20 -832.78
##
## Step:  AIC=-863.65
## Music ~ Dance + Rock
##
##           Df Sum of Sq    RSS    AIC
## <none>                426.95 -863.65
## + Pop      1     0.7187 426.23 -863.36
```

```
## + Folk    1    0.0883 426.86 -861.86
## - Dance   1    4.9857 431.93 -853.93
## - Rock    1   14.3175 441.27 -832.34

step$anova # display results

## Stepwise Model Path
## Analysis of Deviance Table
##
## Initial Model:
## Music ~ Dance + Folk + Pop + Rock
##
## Final Model:
## Music ~ Dance + Rock
##
##
##      Step Df   Deviance Resid. Df Resid. Dev      AIC
## 1              1005    426.1351 -861.5788
## 2 - Folk      1 0.09431191     1006    426.2294 -863.3553
## 3 - Pop       1 0.71870767     1007    426.9481 -863.6536

#install.packages("leaps")
library(leaps)

## Warning: package 'leaps' was built under R version 3.6.3

leaps<-
regsubsets(Music~Dance+Folk+Pop+Rock+Country,data=music_transformed,nbest=10)
# view results
summary(leaps)

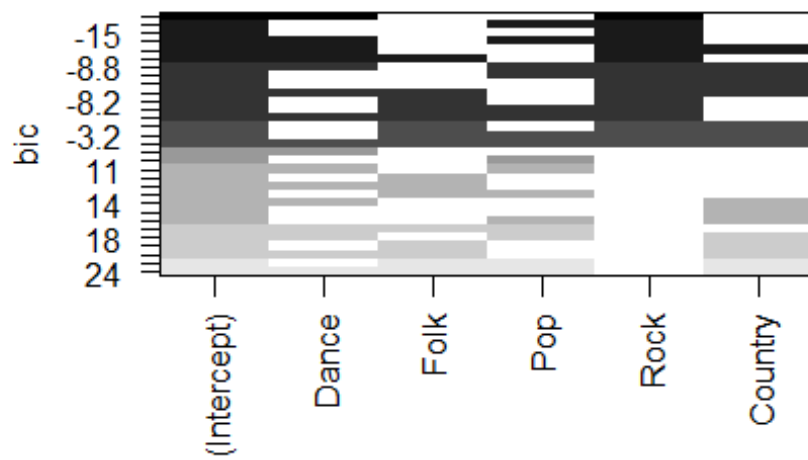
## Subset selection object
## Call: regsubsets.formula(Music ~ Dance + Folk + Pop + Rock + Country,
##      data = music_transformed, nbest = 10)
## 5 Variables (and intercept)
##      Forced in Forced out
## Dance      FALSE      FALSE
## Folk       FALSE      FALSE
## Pop        FALSE      FALSE
## Rock       FALSE      FALSE
## Country    FALSE      FALSE
## 10 subsets of each size up to 5
## Selection Algorithm: exhaustive
##      Dance Folk Pop Rock Country
## 1 ( 1 ) " " " " " " "*" " "
## 1 ( 2 ) "*" " " " " " " " "
## 1 ( 3 ) " " " " "*" " " "
## 1 ( 4 ) " " "*" " " " " "
## 1 ( 5 ) " " " " " " " " "*"
## 2 ( 1 ) "*" " " " " "*" " "
## 2 ( 2 ) " " " " "*" "*" " "
```

```

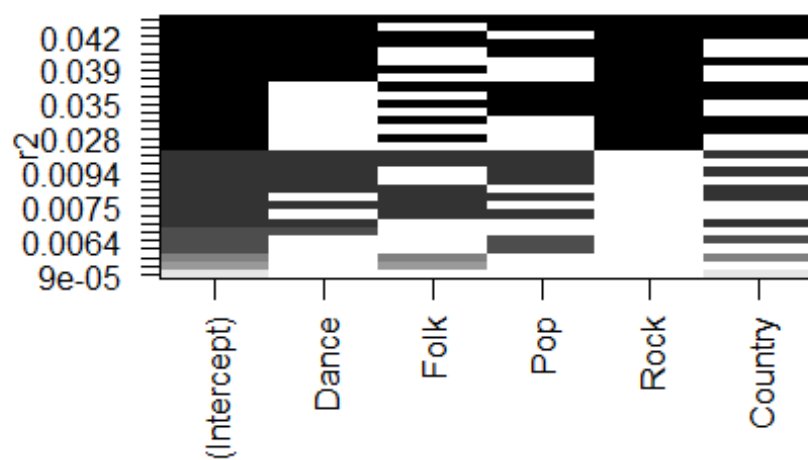
## 2 ( 3 ) " " " " " " "*" "*"
## 2 ( 4 ) " " "*" " " "*" " "
## 2 ( 5 ) "*" " " "*" " " " "
## 2 ( 6 ) "*" "*" " " " " " "
## 2 ( 7 ) " " "*" "*" " " " "
## 2 ( 8 ) "*" " " " " " " "*"
## 2 ( 9 ) " " " " "*" " " "*"
## 2 ( 10 ) " " "*" " " " " "*"
## 3 ( 1 ) "*" " " "*" "*" " "
## 3 ( 2 ) "*" " " " " "*" "*"
## 3 ( 3 ) "*" "*" " " "*" " "
## 3 ( 4 ) " " " " "*" "*" "*"
## 3 ( 5 ) " " "*" "*" "*" " "
## 3 ( 6 ) " " "*" " " "*" "*"
## 3 ( 7 ) "*" "*" "*" " " " "
## 3 ( 8 ) "*" " " "*" " " "*"
## 3 ( 9 ) "*" "*" " " " " "*"
## 3 ( 10 ) " " "*" "*" " " "*"
## 4 ( 1 ) "*" " " "*" "*" "*"
## 4 ( 2 ) "*" "*" " " "*" "*"
## 4 ( 3 ) "*" "*" "*" "*" " "
## 4 ( 4 ) " " "*" "*" "*" "*"
## 4 ( 5 ) "*" "*" "*" " " "*"
## 5 ( 1 ) "*" "*" "*" "*" "*"

```

plot a table of models showing variables in each model.
models are ordered by the selection statistic.
plot(leaps)

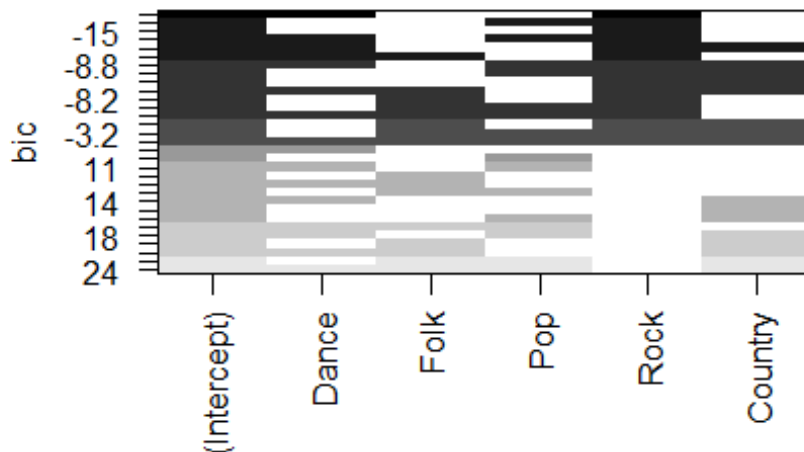


```
plot(leaps, scale="r2")
```



```
#subsets(leaps, statistic="rsq")
```

```
# ALL Subsets Regression
plot(leaps,scale="bic")
```



```
summary(leaps)

## Subset selection object
## Call: regsubsets.formula(Music ~ Dance + Folk + Pop + Rock + Country,
##   data = music_transformed, nbest = 10)
## 5 Variables (and intercept)
##      Forced in Forced out
## Dance      FALSE      FALSE
## Folk       FALSE      FALSE
## Pop        FALSE      FALSE
## Rock       FALSE      FALSE
## Country    FALSE      FALSE
## 10 subsets of each size up to 5
## Selection Algorithm: exhaustive
##      Dance Folk Pop Rock Country
## 1 ( 1 ) " " " " " " "*" " "
## 1 ( 2 ) "*" " " " " " " " "
## 1 ( 3 ) " " " " "*" " " "
## 1 ( 4 ) " " "*" " " " " "
## 1 ( 5 ) " " " " " " " "*"
## 2 ( 1 ) "*" " " " " "*" " "
## 2 ( 2 ) " " " " "*" "*" " "
## 2 ( 3 ) " " " " " " "*" "*"
## 2 ( 4 ) " " "*" " " "*" " "
```

```
## 2 ( 5 ) "*" " " "*" " " " "
## 2 ( 6 ) "*" "*" " " " " " "
## 2 ( 7 ) " " "*" "*" " " " "
## 2 ( 8 ) "*" " " " " " " "*"
## 2 ( 9 ) " " " " "*" " " "*"
## 2 ( 10 ) " " "*" " " " " "*"
## 3 ( 1 ) "*" " " "*" "*" " "
## 3 ( 2 ) "*" " " " " "*" "*"
## 3 ( 3 ) "*" "*" " " "*" " "
## 3 ( 4 ) " " " " "*" "*" "*"
## 3 ( 5 ) " " "*" "*" "*" " "
## 3 ( 6 ) " " "*" " " "*" "*"
## 3 ( 7 ) "*" "*" "*" " " " "
## 3 ( 8 ) "*" " " "*" " " "*"
## 3 ( 9 ) "*" "*" " " " " "*"
## 3 ( 10 ) " " "*" "*" " " "*"
## 4 ( 1 ) "*" " " "*" "*" "*"
## 4 ( 2 ) "*" "*" " " "*" "*"
## 4 ( 3 ) "*" "*" "*" "*" " "
## 4 ( 4 ) " " "*" "*" "*" "*"
## 4 ( 5 ) "*" "*" "*" " " "*"
## 5 ( 1 ) "*" "*" "*" "*" "*"

```

#View(leaps)

leaps

```
## Subset selection object
## Call: regsubsets.formula(Music ~ Dance + Folk + Pop + Rock + Country,
##   data = music_transformed, nbest = 10)
## 5 Variables (and intercept)
##      Forced in Forced out
## Dance      FALSE      FALSE
## Folk       FALSE      FALSE
## Pop        FALSE      FALSE
## Rock       FALSE      FALSE
## Country    FALSE      FALSE
## 10 subsets of each size up to 5
## Selection Algorithm: exhaustive

```

coef(leaps,1:5)

```
## [[1]]
## (Intercept)      Rock
##  4.37996937  0.09353105
##
## [[2]]
## (Intercept)      Dance
##  4.58608525  0.04671344
##
## [[3]]

```

```

## (Intercept)      Pop
##  4.57411248  0.04539258
##
## [[4]]
## (Intercept)      Folk
##  4.68824121  0.01896127
##
## [[5]]
## (Intercept)      Country
##  4.74404707 -0.00580546

# Calculate Relative Importance for Each Predictor
#install.packages("relaimpo")
library(relaimpo)

## Warning: package 'relaimpo' was built under R version 3.6.3

## Loading required package: boot

##
## Attaching package: 'boot'

## The following object is masked from 'package:car':
##
##      logit

## The following object is masked from 'package:psych':
##
##      logit

## The following object is masked from 'package:lattice':
##
##      melanoma

## Loading required package: survey

## Warning: package 'survey' was built under R version 3.6.3

## Loading required package: grid

## Loading required package: Matrix

## Loading required package: survival

##
## Attaching package: 'survival'

## The following object is masked from 'package:boot':
##
##      aml

##
## Attaching package: 'survey'

```

```

## The following object is masked from 'package:graphics':
##
##      dotchart

## Loading required package: mitools

## Warning: package 'mitools' was built under R version 3.6.3

## This is the global version of package relaimpo.

## If you are a non-US user, a version with the interesting additional metric
pmvd is available

## from Ulrike Groempings web site at prof.beuth-hochschule.de/groemping.

calc.relimp(fit,type=c("lmg","last","first","pratt"),rela=TRUE)

## Warning in rev(variances[[p]]) - variances[[p + 1]]: Recycling array of
length 1 in vector-array arithmetic is deprecated.
## Use c() or as.vector() instead.

## Response variable: Music
## Total response variance: 0.4403232
## Analysis based on 1010 observations
##
## 4 Regressors:
## Dance Folk Pop Rock
## Proportion of variance explained by model: 4.09%
## Metrics are normalized to sum to 100% (rela=TRUE).
##
## Relative importance metrics:
##
##           lmg          last        first         pratt
## Dance 0.16042852 0.154039556 0.1619915 0.17452170
## Folk  0.01504095 0.005483838 0.0253054 0.01168017
## Pop   0.10140330 0.042140512 0.1502477 0.08687960
## Rock  0.72312724 0.798336095 0.6624554 0.72691853
##
## Average coefficients for different model sizes:
##
##           1X          2Xs          3Xs          4Xs
## Dance 0.04671344 0.04663482 0.04739102 0.048989937
## Folk  0.01896127 0.01557162 0.01205119 0.008519444
## Pop   0.04539258 0.04088266 0.03431910 0.025550694
## Rock  0.09353105 0.09617783 0.09833106 0.099906283

# Bootstrap Measures of Relative Importance (1000 samples)
boot <- boot.relimp(fit, b = 1000, type = c("lmg","last", "first", "pratt"),
rank = TRUE,diff = TRUE, rela = TRUE)

booteval.relimp(boot) # print result

```



```

## Warning in rev(variances[[p]]) - variances[[p + 1]]: Recycling array of
length 1 in vector-array arithmetic is deprecated.
## Use c() or as.vector() instead.

## Response variable: Music
## Total response variance: 0.4403232
## Analysis based on 1010 observations
##
## 4 Regressors:
## Dance Folk Pop Rock
## Proportion of variance explained by model: 4.09%
## Metrics are normalized to sum to 100% (rela=TRUE).
##
## Relative importance metrics:
##
##           lmg          last      first      pratt
## Dance 0.16042852 0.154039556 0.1619915 0.17452170
## Folk  0.01504095 0.005483838 0.0253054 0.01168017
## Pop   0.10140330 0.042140512 0.1502477 0.08687960
## Rock  0.72312724 0.798336095 0.6624554 0.72691853
##
## Average coefficients for different model sizes:
##
##           1X          2Xs          3Xs          4Xs
## Dance 0.04671344 0.04663482 0.04739102 0.048989937
## Folk  0.01896127 0.01557162 0.01205119 0.008519444
## Pop   0.04539258 0.04088266 0.03431910 0.025550694
## Rock  0.09353105 0.09617783 0.09833106 0.099906283
##
##
## Confidence interval information ( 1000 bootstrap replicates, bty= perc ):
## Relative Contributions with confidence intervals:
##
##           Lower  Upper
##           percentage 0.95 0.95 0.95
## Dance.lmg 0.1604 _BCD 0.0204 0.3451
## Folk.lmg 0.0150 _BCD 0.0011 0.1819
## Pop.lmg 0.1014 _BCD 0.0098 0.2706
## Rock.lmg 0.7231 A___ 0.4659 0.8999
##
## Dance.last 0.1540 _BCD 0.0100 0.3450
## Folk.last 0.0055 _BCD 0.0000 0.1625
## Pop.last 0.0421 _BCD 0.0001 0.2195
## Rock.last 0.7983 A___ 0.5443 0.9142
##
## Dance.first 0.1620 _BCD 0.0147 0.3482
## Folk.first 0.0253 _BCD 0.0001 0.1985
## Pop.first 0.1502 _BCD 0.0088 0.3193
## Rock.first 0.6625 A___ 0.3830 0.9093
##

```

```

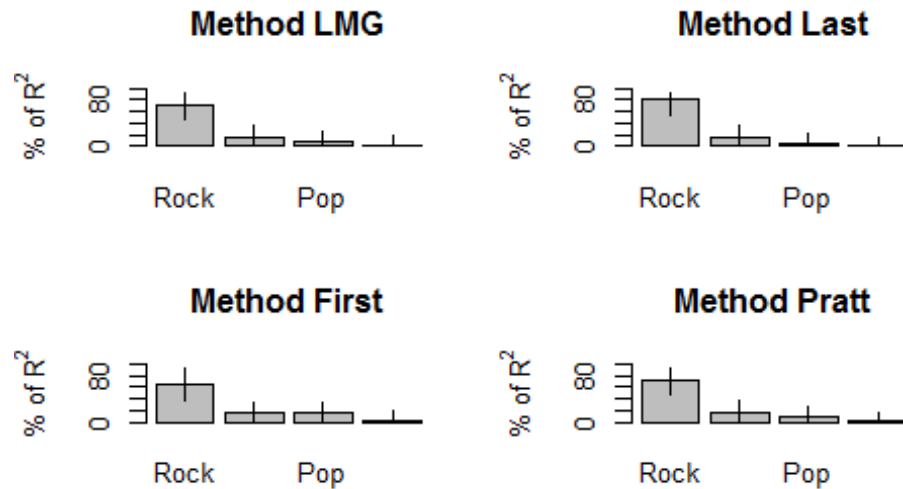
## Dance.pratt  0.1745    _BCD  0.0119  0.3796
## Folk.pratt   0.0117    _BCD -0.0034  0.1786
## Pop.pratt    0.0869    _BCD -0.0104  0.2830
## Rock.pratt   0.7269    A___  0.4650  0.9088
##
## Letters indicate the ranks covered by bootstrap CIs.
## (Rank bootstrap confidence intervals always obtained by percentile method)
## CAUTION: Bootstrap confidence intervals can be somewhat liberal.
##
##
## Differences between Relative Contributions:
##
##                               Lower    Upper
## difference 0.95 0.95    0.95
## Dance-Folk.lmg    0.1454          -0.0963  0.3250
## Dance-Pop.lmg     0.0590          -0.1729  0.2809
## Dance-Rock.lmg    -0.5627      *    -0.8592 -0.1223
## Folk-Pop.lmg     -0.0864          -0.2419  0.0936
## Folk-Rock.lmg    -0.7081      *    -0.8828 -0.3444
## Pop-Rock.lmg     -0.6217      *    -0.8785 -0.2368
##
## Dance-Folk.last   0.1486          -0.0899  0.3374
## Dance-Pop.last    0.1119          -0.1654  0.3319
## Dance-Rock.last   -0.6443      *    -0.8634 -0.2058
## Folk-Pop.last    -0.0367          -0.1917  0.1038
## Folk-Rock.last   -0.7929      *    -0.9027 -0.4326
## Pop-Rock.last    -0.7562      *    -0.8972 -0.4025
##
## Dance-Folk.first  0.1367          -0.1114  0.3253
## Dance-Pop.first   0.0117          -0.1974  0.2314
## Dance-Rock.first  -0.5005      *    -0.8757 -0.0473
## Folk-Pop.first   -0.1249          -0.2914  0.1033
## Folk-Rock.first  -0.6371      *    -0.8943 -0.2725
## Pop-Rock.first   -0.5122      *    -0.8878 -0.1031
##
## Dance-Folk.pratt  0.1628          -0.0974  0.3691
## Dance-Pop.pratt   0.0876          -0.1898  0.3572
## Dance-Rock.pratt  -0.5524      *    -0.8699 -0.0896
## Folk-Pop.pratt   -0.0752          -0.2561  0.1099
## Folk-Rock.pratt  -0.7152      *    -0.8990 -0.3477
## Pop-Rock.pratt   -0.6400      *    -0.8971 -0.2362
##
## * indicates that CI for difference does not include 0.
## CAUTION: Bootstrap confidence intervals can be somewhat liberal.

plot(booteval.relimp(boot,sort=TRUE)) # plot result

## Warning in rev(variances[[p]]) - variances[[p + 1]]: Recycling array of
length 1 in vector-array arithmetic is deprecated.
## Use c() or as.vector() instead.

```

Relative importances for Music with 95% bootstrap confidence intervals



$R^2 = 4.09\%$, metrics are normalized to sum 100%.

```
summary(fit)

##
## Call:
## lm(formula = Music ~ Dance + Folk + Pop + Rock, data = music_transformed)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.9013  0.0985  0.2135  0.3052  0.7219
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  4.095090   0.106376  38.497  < 2e-16 ***
## Dance        0.048990   0.019599   2.500   0.0126 *
## Folk         0.008519   0.018064   0.472   0.6373
## Pop          0.025551   0.019544   1.307   0.1914
## Rock         0.099906   0.017557   5.690  1.66e-08 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6512 on 1005 degrees of freedom
## Multiple R-squared:  0.04085,    Adjusted R-squared:  0.03704
## F-statistic: 10.7 on 4 and 1005 DF, p-value: 1.698e-08
```