

# 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 categorial 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
##	Appearence.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
```



##		1	1
##	Fantasy.Fairy.tales	1	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
##	Appearence.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

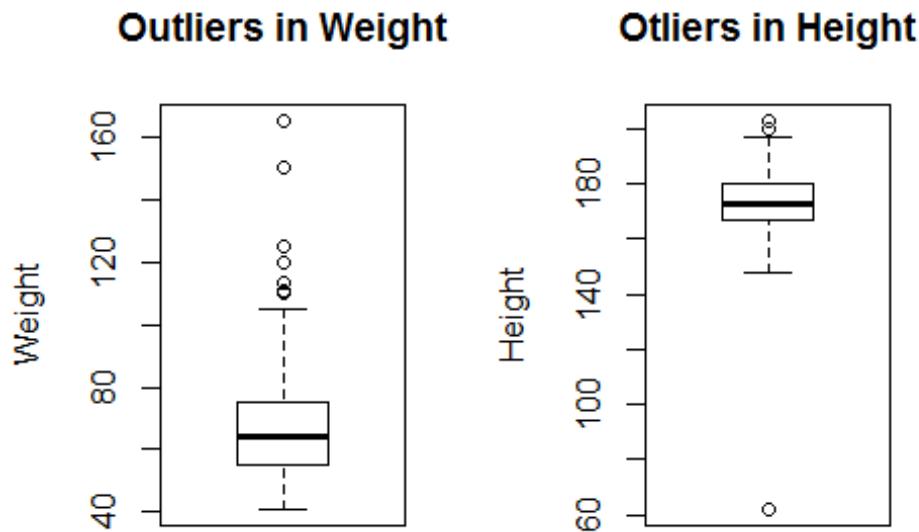
id4 = boxplot.stats(impu_num_compl$Number.of.siblings)

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

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

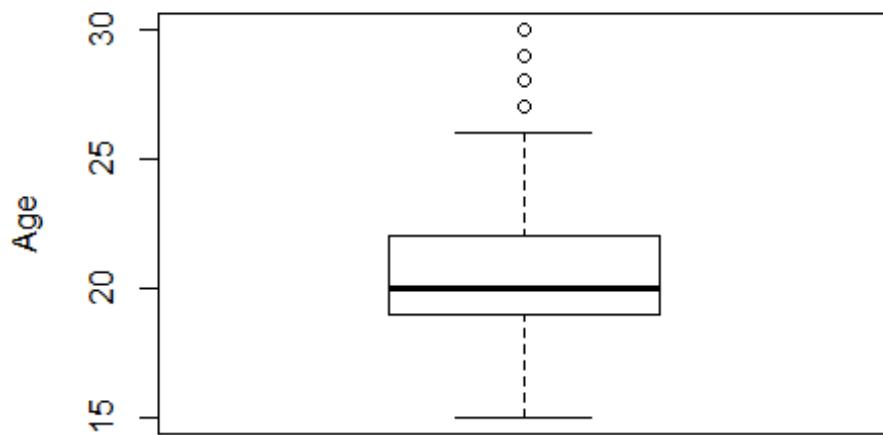
# BoxPlot
par(mfrow=c(1,2))
boxplot(impu_num_compl$Weight, main = 'Outliers in Weight', ylab = 'Weight')
boxplot(impu_num_compl$Height, main = 'Outliers in Height', ylab = 'Height')

```



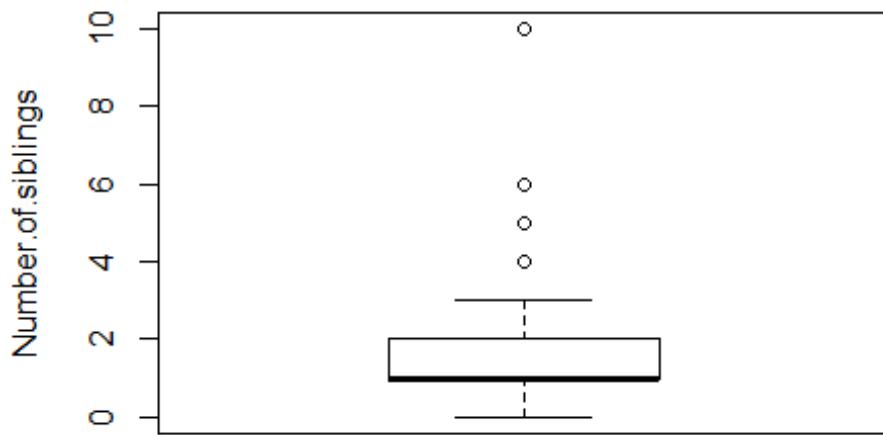
```
boxplot(impu_num_compl$Age, main = 'Outliers in Age', ylab = 'Age')
```

## Outliers in Age



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

## Outliers 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
##	221	5	3	2	3	4	5	4
##	548	5	2	2	4	4	4	5
##	677	2	3	1	2	3	4	5
##	800	4	3	4	4	3	4	5
##	993	4	3	5	3	4	4	4
##		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
##	221			1	5	5	3	1
##	548			1	2	1	5	5
##	677			1	1	1	1	3
##	800			2	3	2	5	3
##	993			1	4	4	2	4
##		Medicine	Law	Cars	Art.exhibitions	Religion	Countryside..outdoors	
##		Dancing						
##	98	1	2	2		1	4	4
##	221	3	2	4		3	2	4
##	548	2	2	1		4	4	3
##	677	1	5	2		3	1	4
##	800	3	2	3		4	2	4
##	993	1	1	2		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	5	2
## 677		1	1	5	5	5	2
## 800		3	3	3	2	4	
## 993		1	5	4	1	1	
## 98	Celebrities	Shopping	Science.and.technology	Theatre	Fun.with.friends		
## 221	1	1		4	1		3
## 548	1	3		4	2		5
## 677	1	1		2	5		5
## 800	4	3		3	5		5
## 993	3	3		4	5		4
## 98	1	1		5	2		5
## 221	Rats	Adrenaline.sports	Pets	Flying	Storm	Darkness	Heights
## 548	1	3	5	1	1	2	3
## 677	2	3	5	1	3	2	2
## 800	4	5	4	1	2	3	1
## 993	2	2	3	1	1	5	1
## 98	Daily.events	Ageing	Dangerous.dogs	Fear.of.public.speaking	Healthy.eating		
## 221	1	1	1		2		3
## 548	2	1	4		3		4
## 677	5	1	4		1		2
## 800	2	3	3		3		4
## 993	3	2	2		4		3
## 98	3	2	3		4		1
## 221	Prioritising.workload	Writing.notes	Workaholism	Thinking.ahead			
## 548	5	1	1	3			2
## 677	2	2	2	1			2
## 800	2	2	1	2			2
## 993	3	3	2	1			3
## 98	3	3	4	5			5
## 221	Final.judgement	Reliability	Keeping.promises	Loss.of.interest			
## 548	2	2	3	5			2
## 98	1	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	Decision.making
## 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	Empathy
## 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	
## Loneliness				
## 98	4	1	2	5
## 221	2	3	5	5
## 548	1	1	5	5
## 677	2	1	1	2
## 800	4	3	5	4
## 993	3	4	2	4
## Cheating.in.school	Health	Changing.the.past	God	Dreams
## Charity				
## 98	5	1	5	4
## 221	5	3	1	3
## 548	5	2	2	3
## 677	5	3	4	3
## 800	3	3	2	4
## 993	1	3	4	3
## 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
## Appearence.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	Number.of.siblings	
## 98	2	19	200	75	1
## 221	3	18	200	90	2
## 548	4	21	203	80	2
## 677	4	20	62	55	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	



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

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

## 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
## 33	1	1	1	3

## 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

	Eating.to.survive	Giving	Compassion.to.animals	Borrowed.stuff	
## 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
## Loneliness					
## 13	3	2	5	5	
## 33	1	1	5	5	
## 35	2	3	1	3	
## 54	3	5	3	5	
## 92	2	3	1	2	
## 125	2	4	2	4	
## 139	4	1	2	5	
## 150	3	2	1	2	
## 230	2	3	3	4	
## 260	3	1	5	5	
## 366	2	3	4	4	
## 372	1	3	4	4	
## 443	4	3	4	4	
## 476	3	2	5	4	
## 503	2	3	2	4	
## 525	3	1	5	3	
## 571	3	3	3	3	
## 620	2	3	5	4	
## 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	2	
## 33	5	1		1	3	3	1	
## 35	2	2		4	5	4	4	
## 54	5	3		5	5	3	1	
## 92	5	3		3	5	3	2	
## 125	2	2		2	1	4	4	
## 139	4	3		5	5	3	3	
## 150	2	2		1	4	3	2	
## 230	5	2		2	5	3	1	
## 260	3	5		5	5	4	3	
## 366	3	1		3	5	4	3	
## 372	2	3		1	5	4	3	
## 443	5	3		2	5	4	2	
## 476	5	3		2	5	3	2	
## 503	5	2		2	4	4	1	
## 525	4	3		4	5	3	1	
## 571	5	4		4	3	4	3	
## 620	3	5		2	1	3	1	
## 683	3	2		4	5	3	2	
## 695	4	3		3	5	2	2	
## 743	5	1		2	5	4	3	
## 751	3	3		2	5	3	5	
## 804	5	5		5	5	3	3	
## 847	4	4		5	5	3	2	

## 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
<b>##      Number.of.friends Waiting New.environment Mood.swings</b>						
## 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		
<b>##      Appearence.and.gestures Socializing Achievements</b>						
## 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))
}

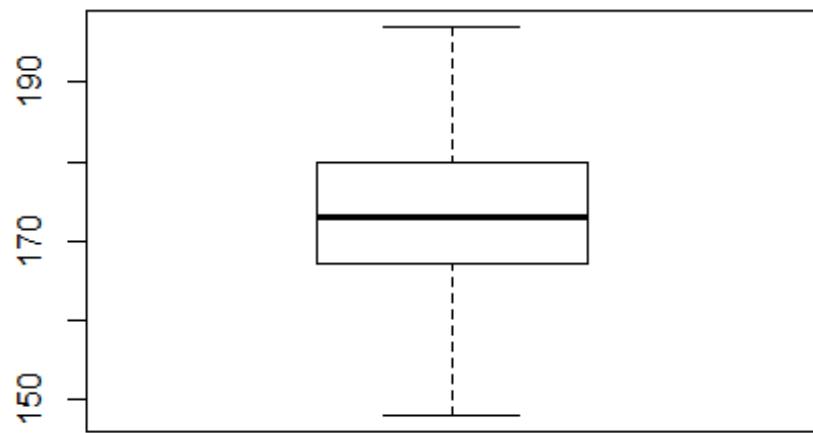
impu_num_compl$Age <- treat_outlier(impu_num_compl$Age)$x
impu_num_compl$Height <- treat_outlier(impu_num_compl$Height)$x
impu_num_compl$Weight <- treat_outlier(impu_num_compl$Weight)$x

dim(impu_num_compl)
## [1] 1010 139

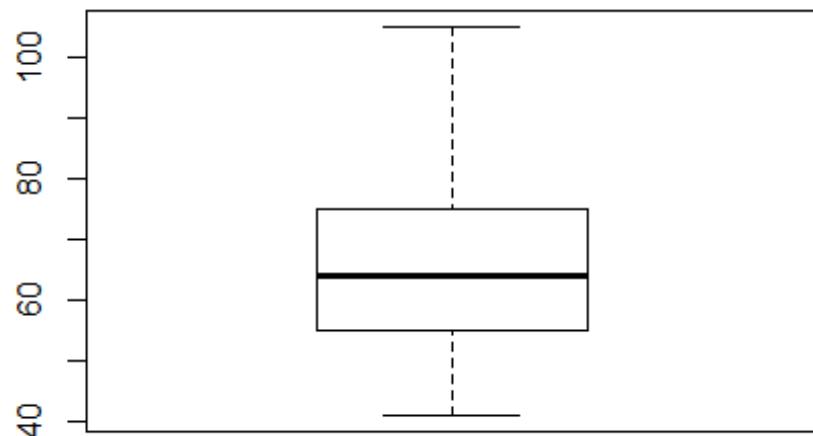
dim(impu_cat_compl)
## [1] 1010 11

```

```
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)

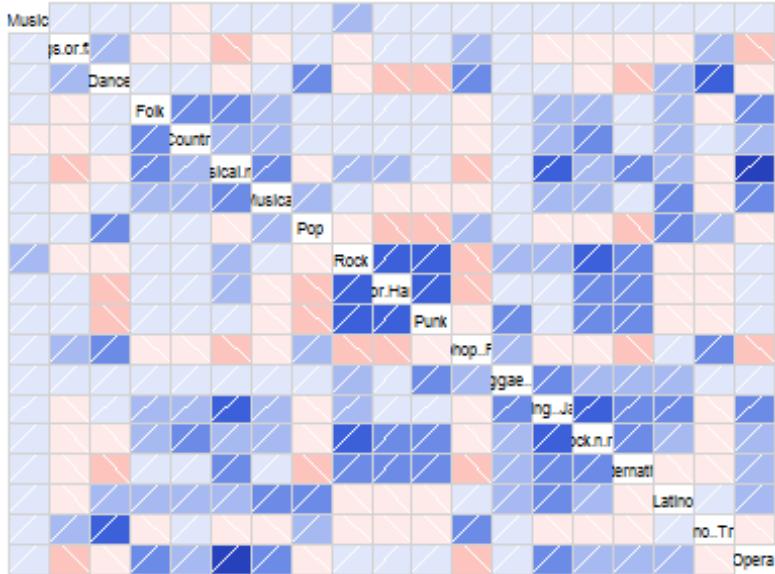
## Warning: package 'corrgram' was built under R version 3.6.2

## 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)
```



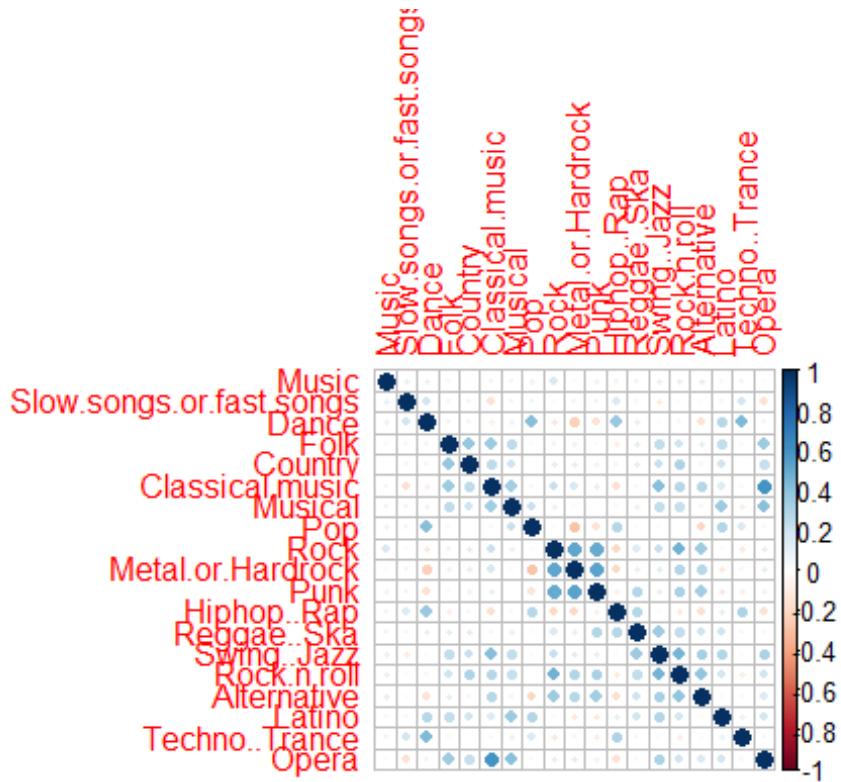
```

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)

```



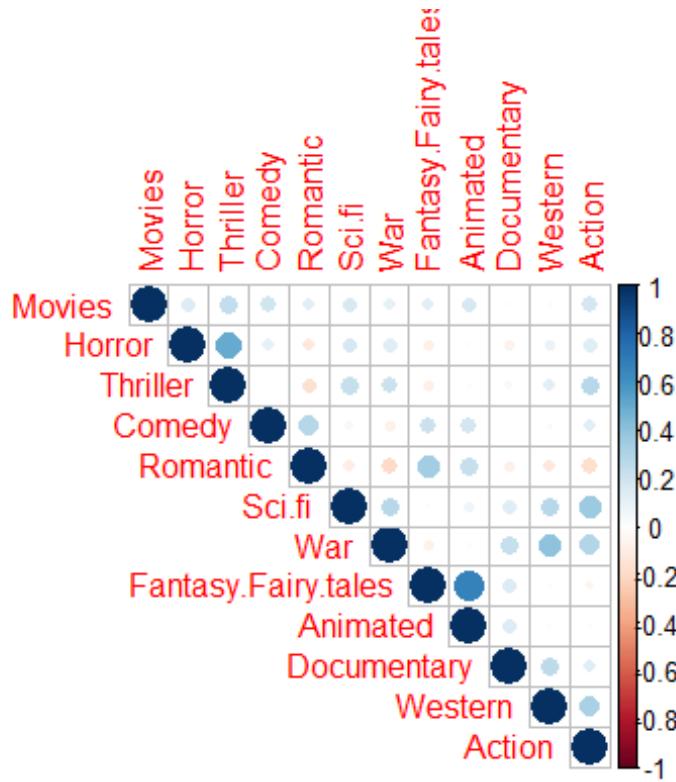
```

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

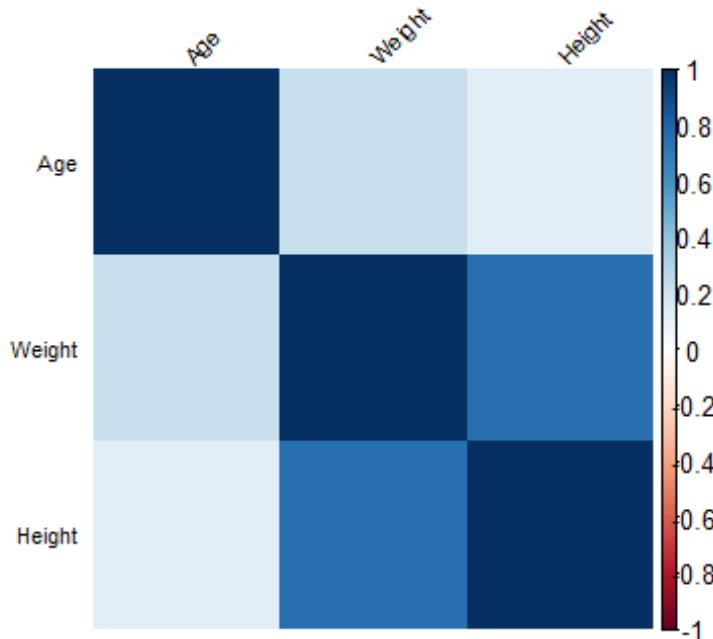
## [1] 1010   12

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

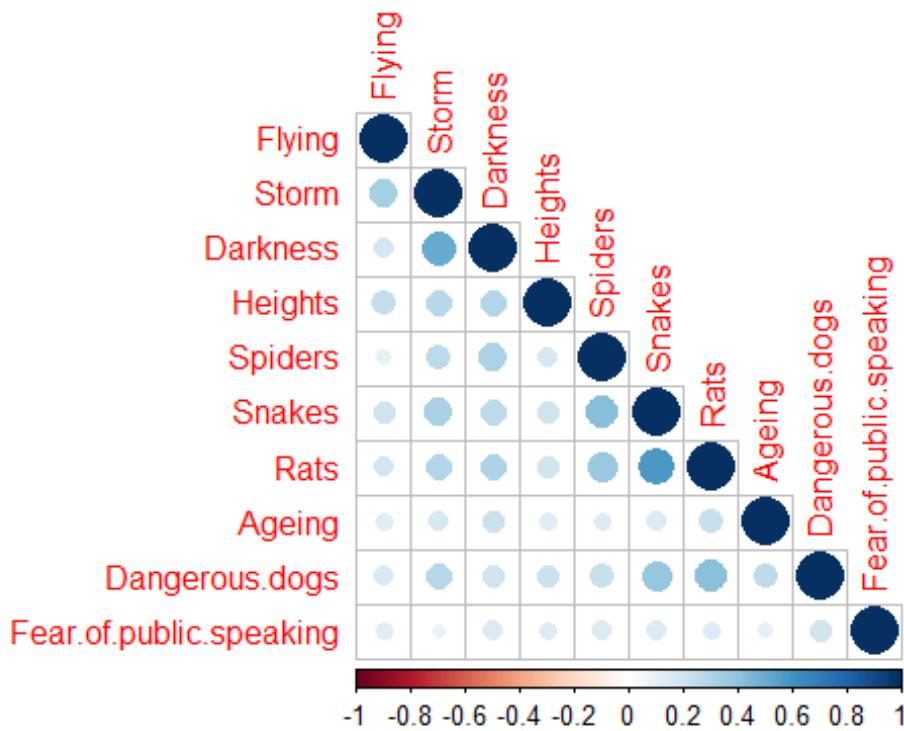
```



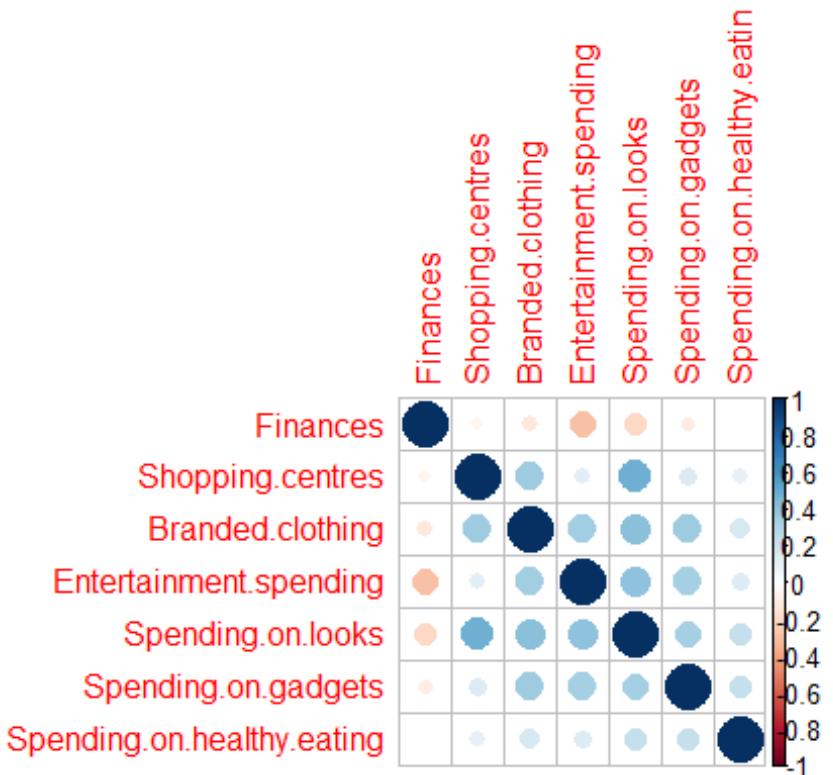
```
demo_cor <- cor(data_transformed[,c('Age','Weight','Height')])
corrplot(demo_cor, method="shade", shade.col=NA, tl.col="black", tl.srt=45,
tl.cex =0.7)
```



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

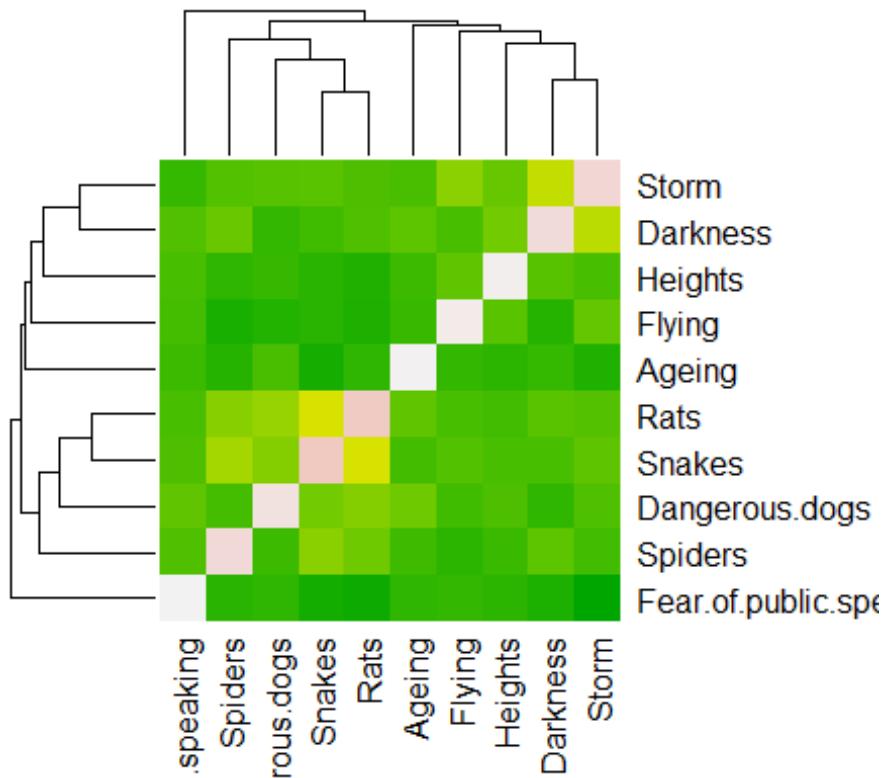


```
spend_cor = cor(data_transformed[,names(spend_data)])
corrplot(spend_cor)
```



## Heat map

```
heatmap(phobia_cor, scale="column", col = terrain.colors(256))
```



## 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
## [151] female male   male   female male   female 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 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  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  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 male female female female female male
female
## [631] female female male male female 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 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 male
## [751] female female female female male female male female male male
## [761] female male male female 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 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(),

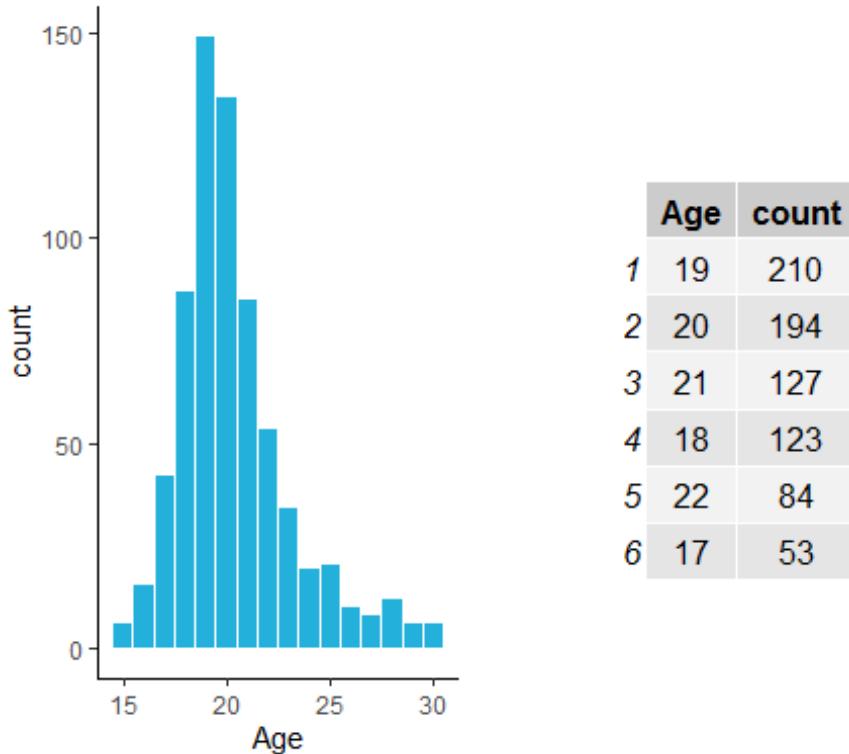
```

```

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)

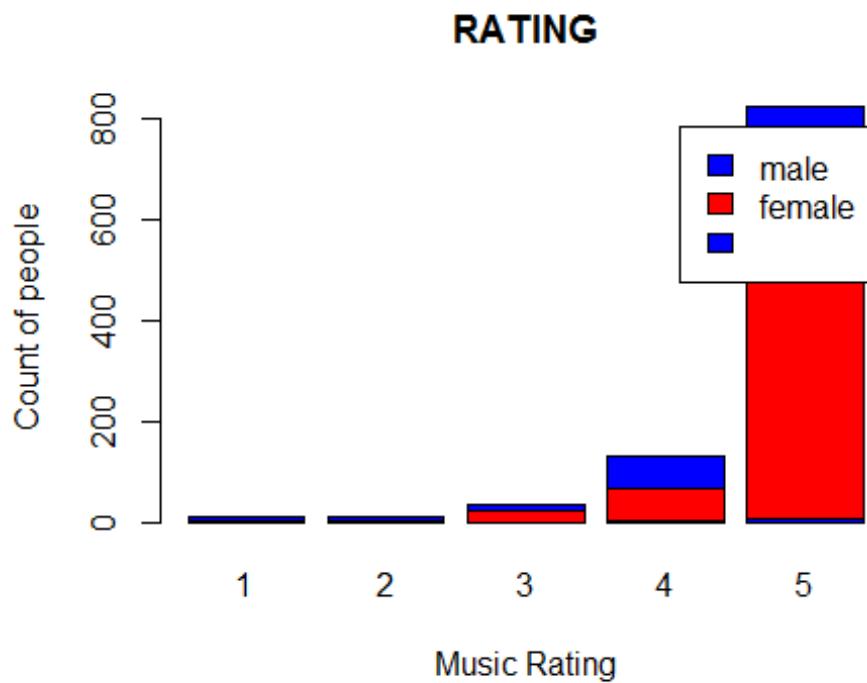
```



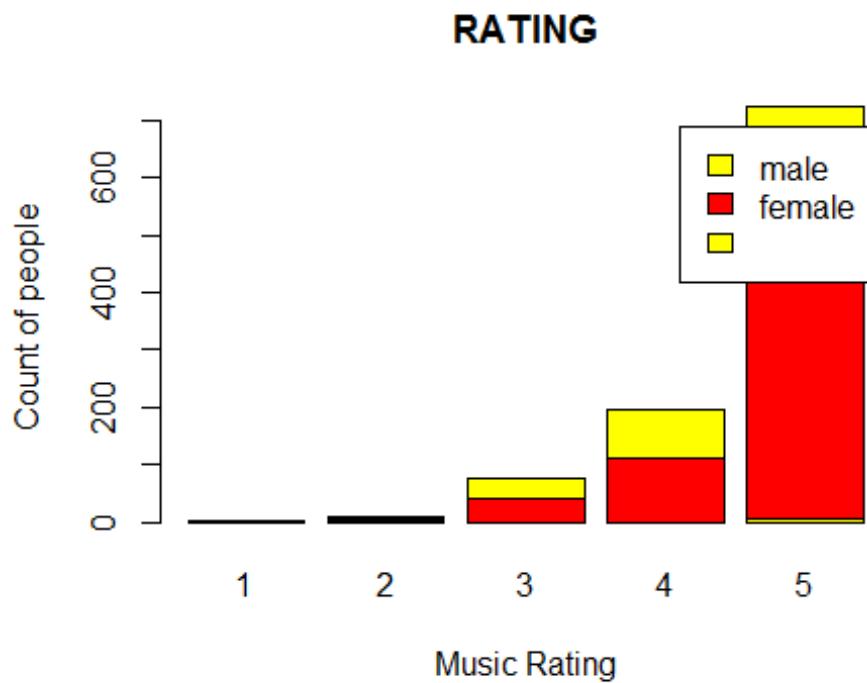
```

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))

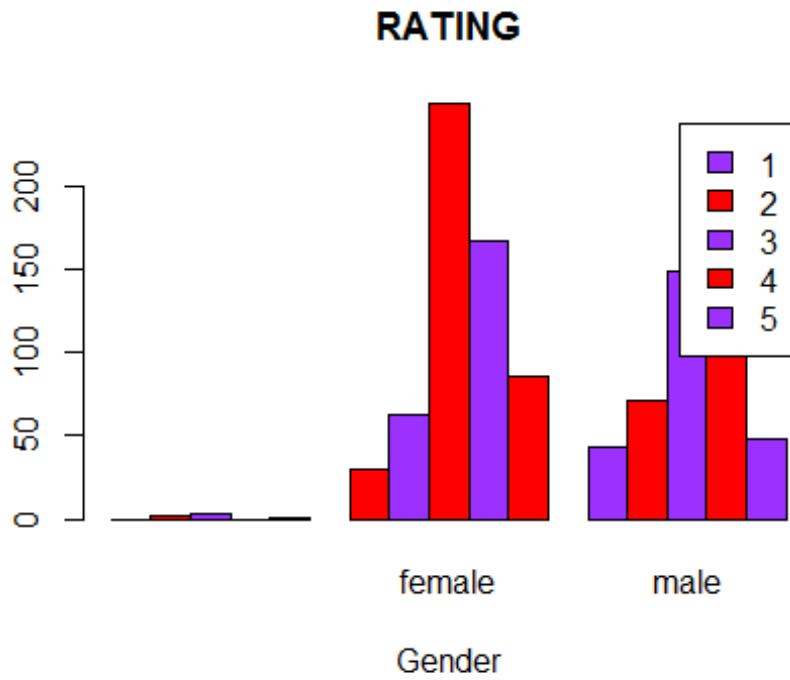
```



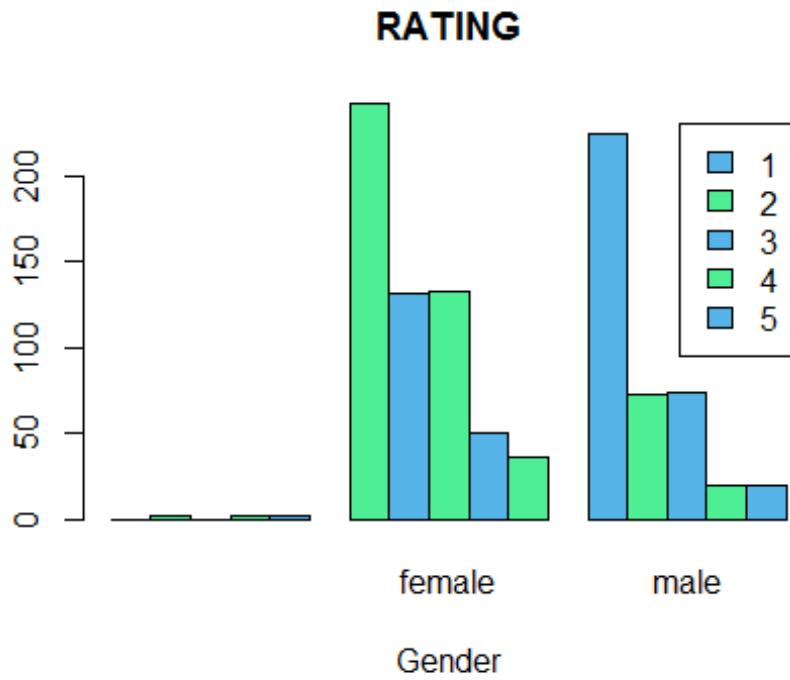
```
counts <- table(data_transformed$Gender, data_transformed$Movies)
barplot(counts, main="RATING",
        xlab="Music Rating", ylab = "Count of people", col=c("Yellow","red"),
        legend = rownames(counts))
```



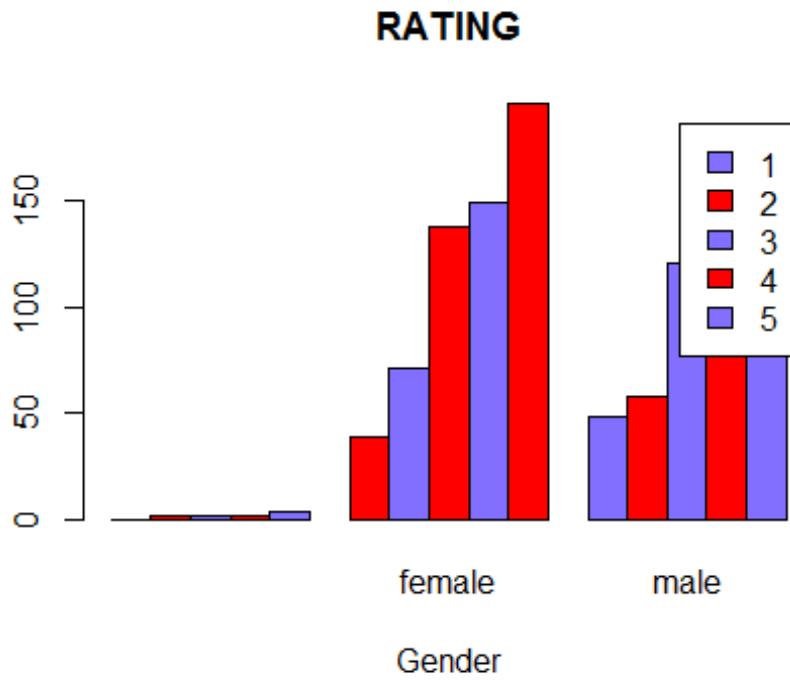
```
#Health
counts <- table(data_transformed$Health, data_transformed$Gender)
barplot(counts, main="RATING",
        xlab="Gender", col=c("purple1","red"),
        legend = rownames(counts), beside=TRUE)
```



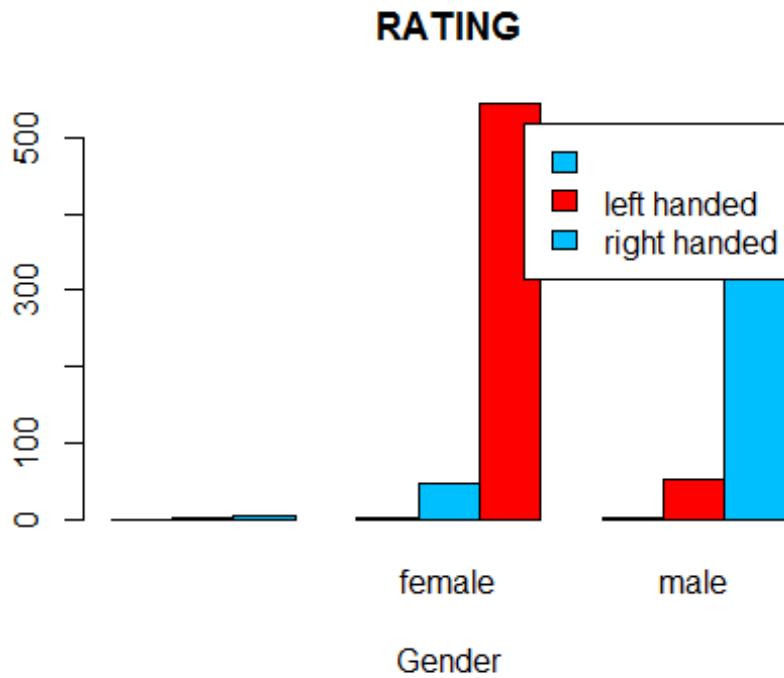
```
#Flying_----- Phobias
counts <- table(data_transformed$Flying, data_transformed$Gender)
barplot(counts, main="RATING",
        xlab="Gender", col=c("#56B4E9", "seagreen2"),
        legend = rownames(counts), beside=TRUE)
```



```
#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

```

```

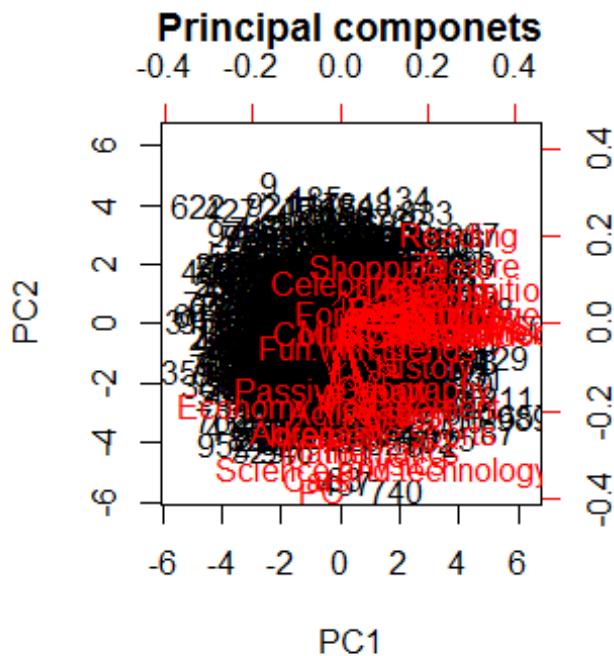
## Cum. prop. variance 0.9240 0.9378 0.9506 0.9623 0.9738 0.9834 0.9927
1.0000

summary(hobbies_pca)

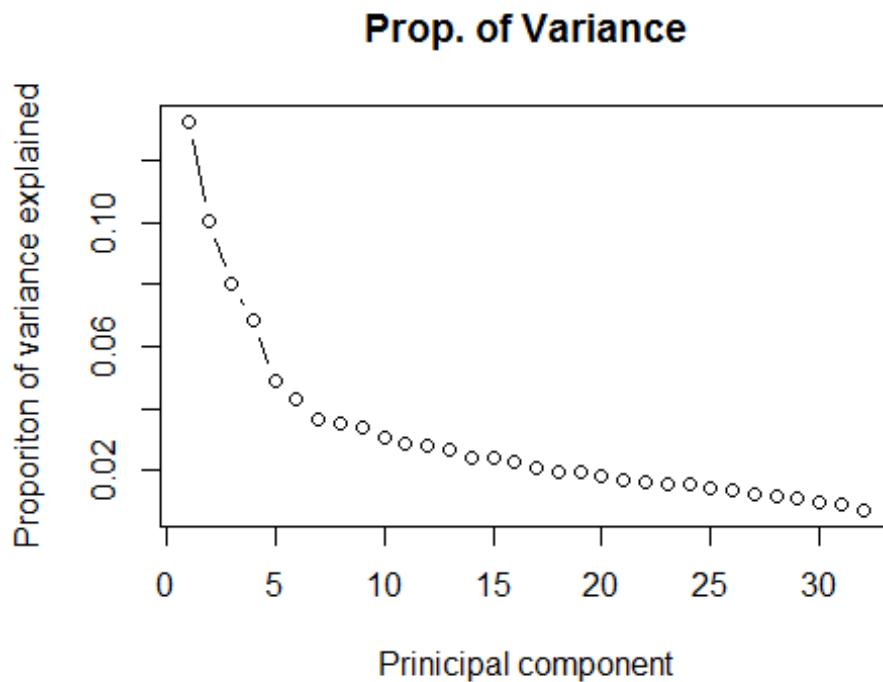
## Importance of components:
##                               PC1      PC2      PC3      PC4      PC5      PC6
PC7
## Standard deviation     2.0589 1.7941 1.60088 1.48110 1.25320 1.17765
1.08117
## Proportion of Variance 0.1325 0.1006 0.08009 0.06855 0.04908 0.04334
0.03653
## Cumulative Proportion  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 components')

```

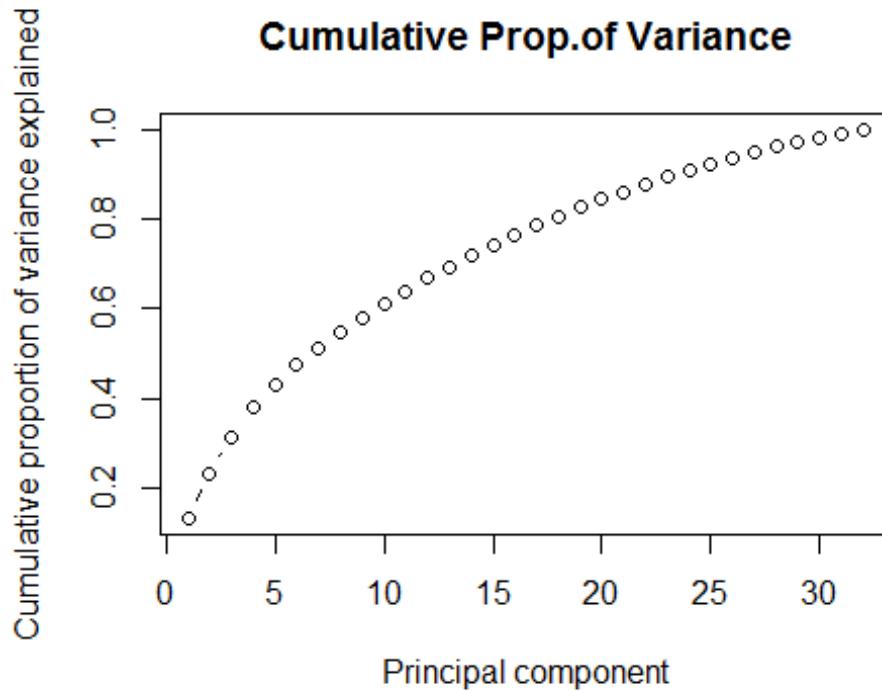


```
##scree plot - to identify the elbow point
plot(propvar_hobbies,xlab = 'Prinicipal component',ylab = 'Proporiton of
variance explained',type = 'b', main = 'Prop. of Variance')
```



```
#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

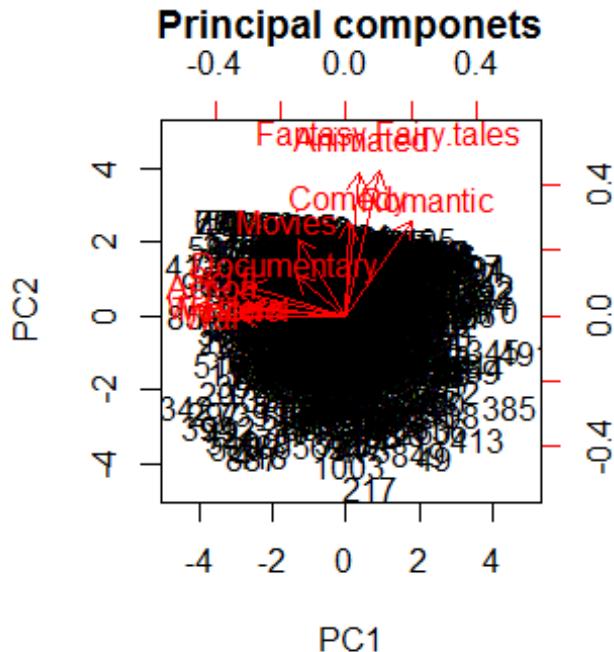
```

```

##                                     PC8      PC9      PC10     PC11      PC12
## Standard deviation      0.82041  0.77117  0.74181  0.6481  0.55169
## 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 components')

```

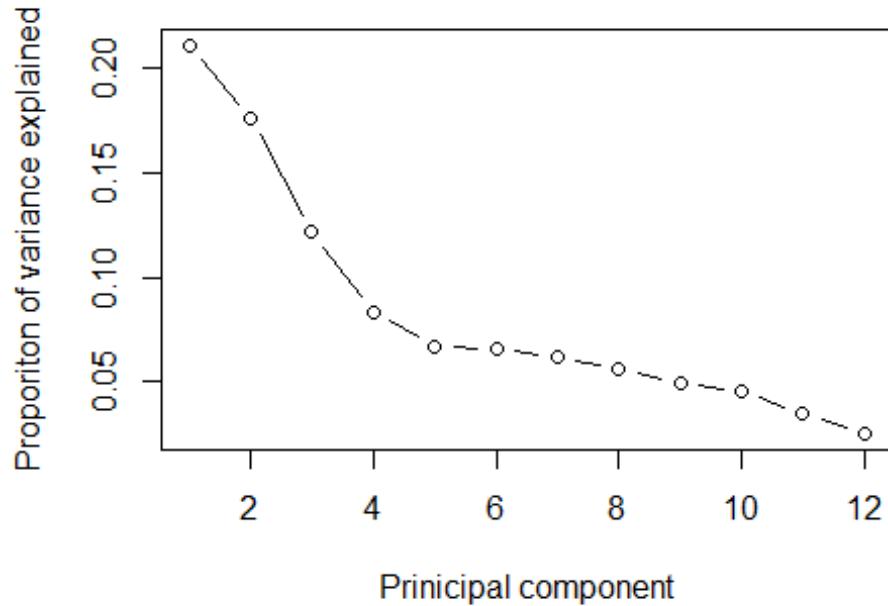


```

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

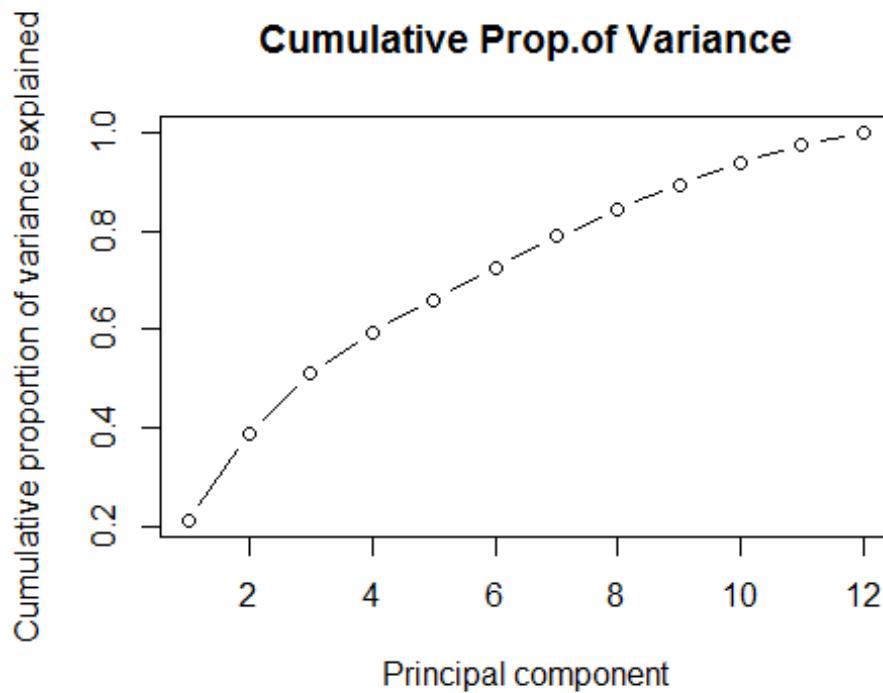
```

## 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	0.03787792	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			
## Hiphop..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			
## Hiphop..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

```

```

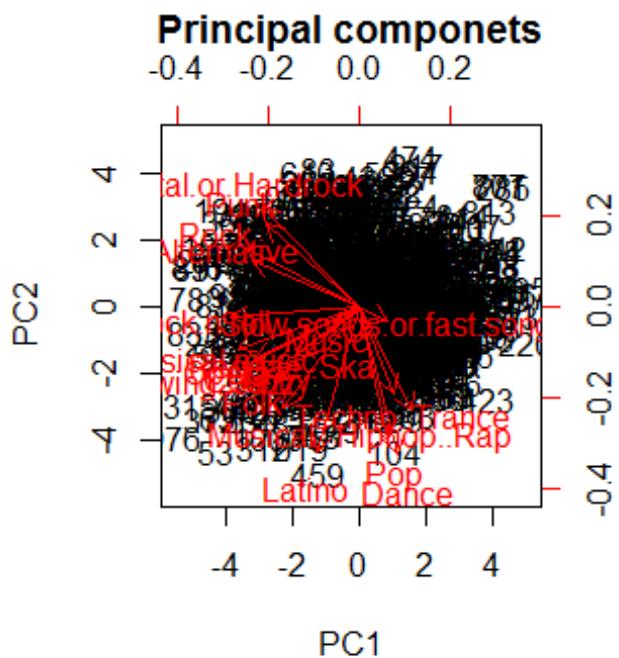
## Prop. variance      0.0200 0.0188 0.0172
## Cum. prop. variance 0.9639 0.9828 1.0000

summary(music_pca)

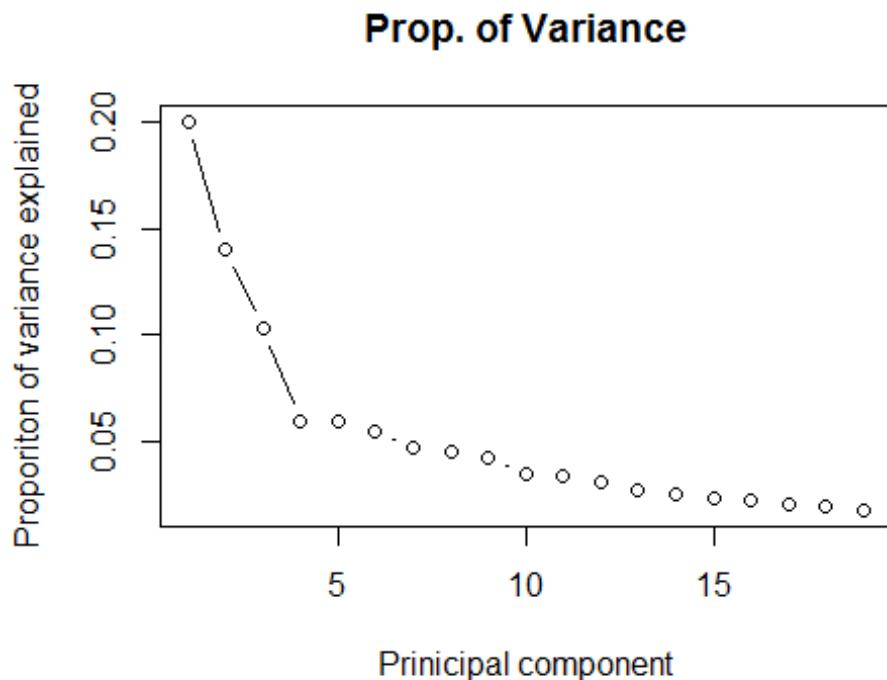
## Importance of components:
##                               PC1      PC2      PC3      PC4      PC5      PC6
PC7
## Standard deviation      1.9507 1.6320 1.3984 1.06335 1.05721 1.01733
0.94242
## Proportion of Variance 0.2003 0.1402 0.1029 0.05951 0.05883 0.05447
0.04675
## Cumulative Proportion  0.2003 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 components')

```

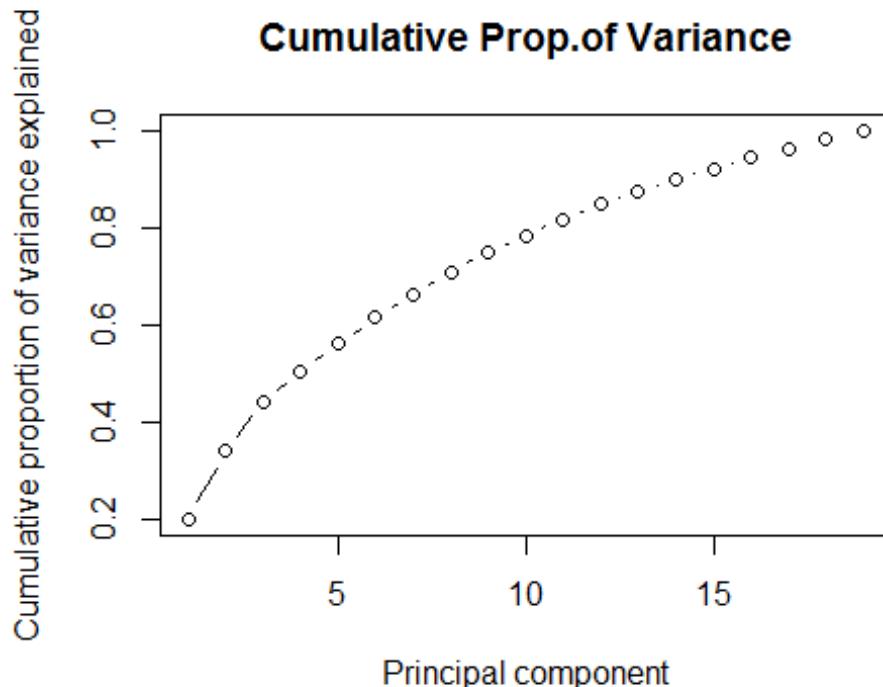


```
##scree plot - to identify the elbow point
plot(propvar_music,xlab = 'Prinicipal component',ylab = 'Proporiton of
variance explained',type = 'b', main = 'Prop. of Variance')
```



```
#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

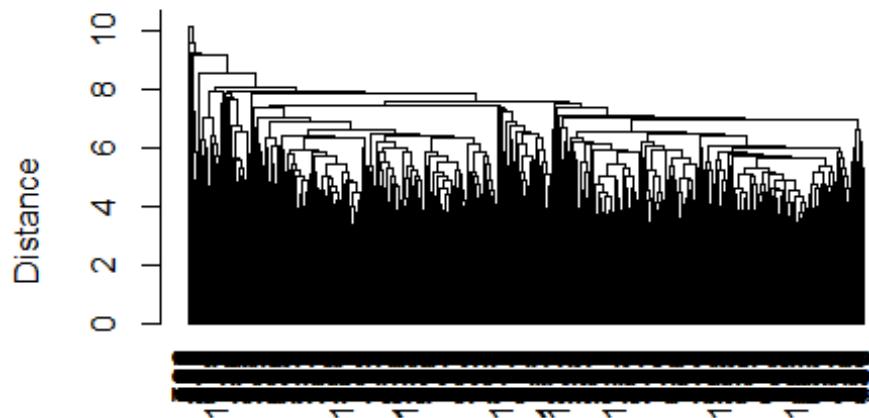
Movie Preferences Cluster (Hierarchical Clustering)

```
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.

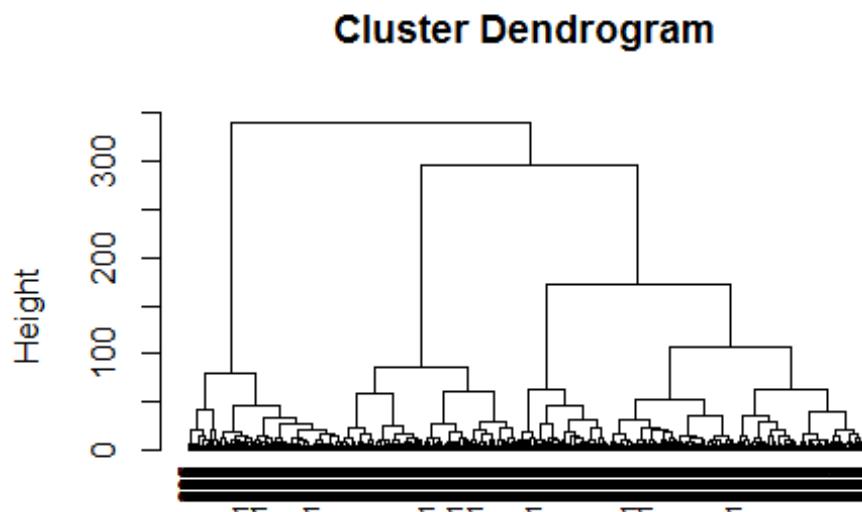
```
dist.mat5 = music_trans
mat5.nn <- hclust(dist(dist.mat5, method = "euclidean"), method = "average")
plot(mat5.nn, hang=-1,xlab="Object",ylab="Distance",
     main="Dendrogram. Nearest neighbor linkage")
```

## Dendrogram. Nearest neighbor linkage



Object  
hclust (\*, "average")

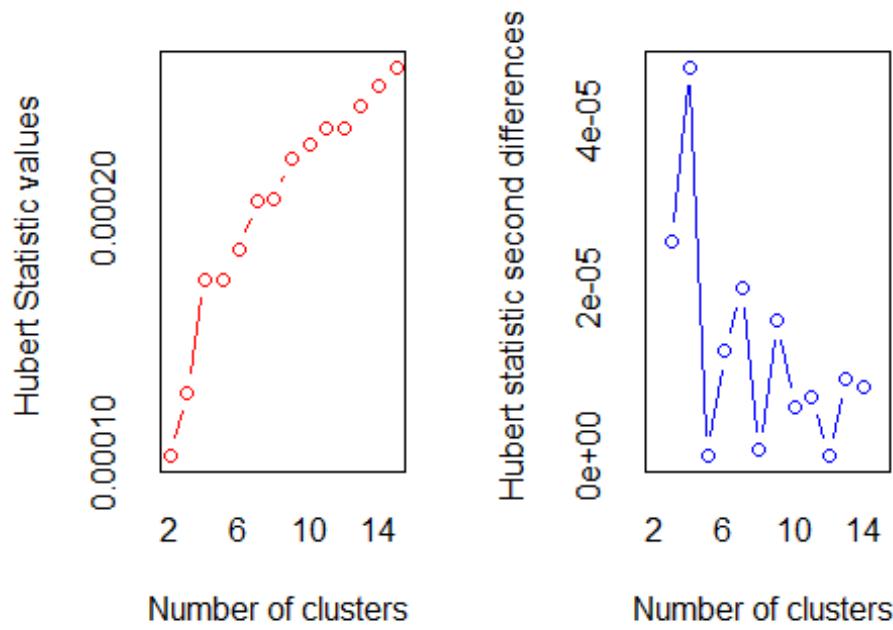
```
#use agglomerative hierarchical clustering to cluster
hc_mod = hclust(dist(music_trans, method = "euclidean"),method = "ward.D")
plot(hc_mod, hang = -0.01, cex = 0.7)
```



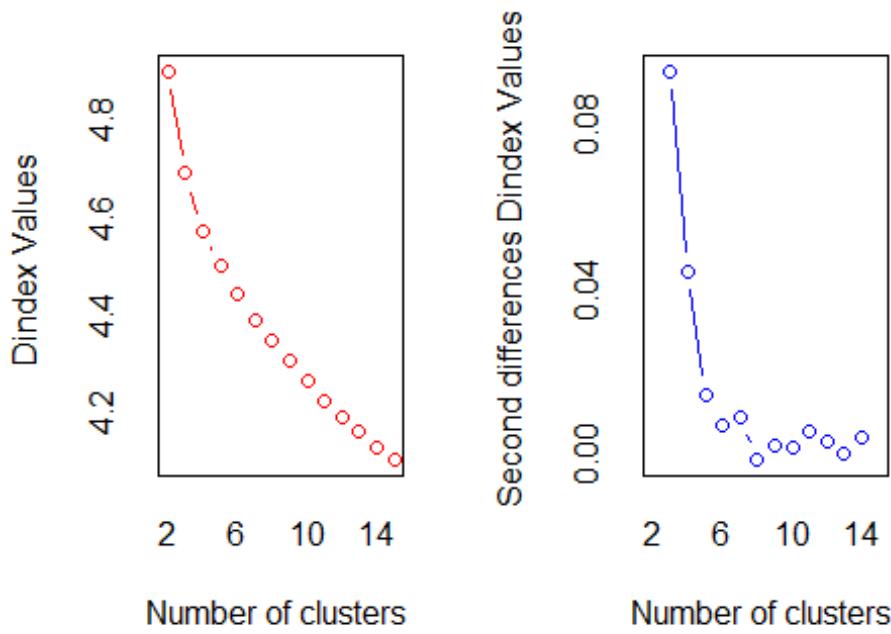
```
dist(music_trans, method = "euclidean")  
hclust (*, "ward.D")
```

I use Ward's

method in this section. Our dataset has a large observations and a lot of variable number, and Ward's method tends to produce clusters with proper numbers of observations. By the way, it can also be sensitive to outlines. From above tree, I'm not so sure how many cluster number it should be. And I will seek help from function NbClust.



```
## *** : 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.
##
```



```

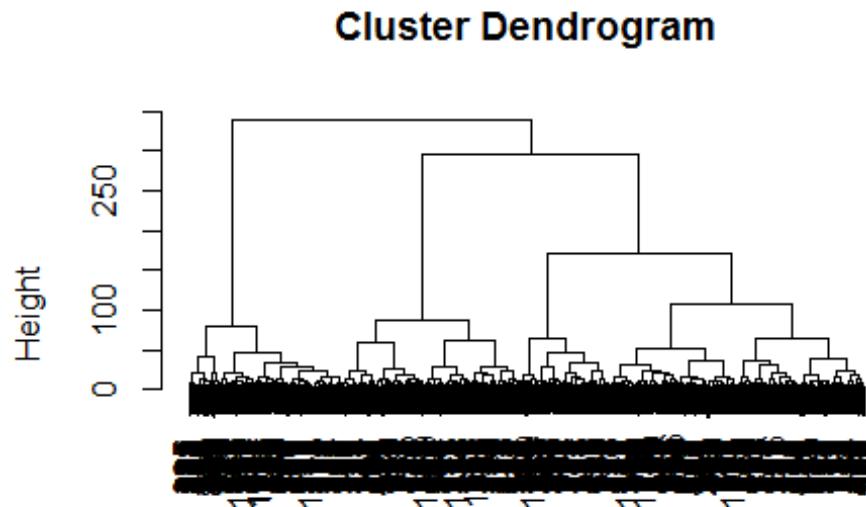
## *** : The D index is a graphical method of determining the number of
clusters.
##           In the plot of D index, we seek a significant knee (the
significant peak in Dindex
##           second differences plot) that corresponds to a significant
increase of the value of
##           the measure.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

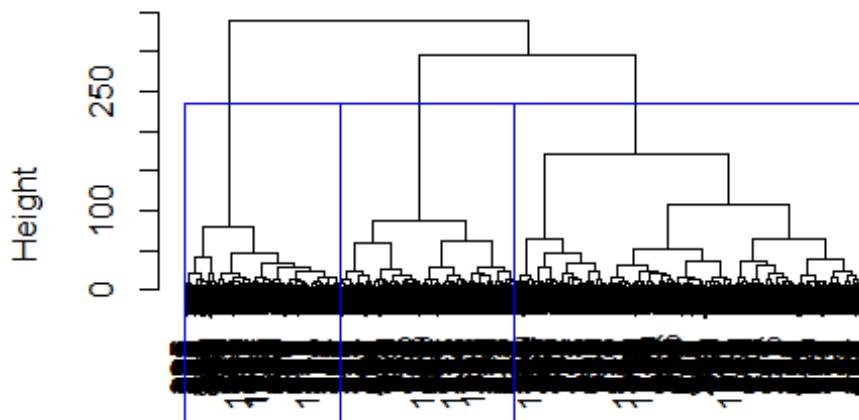
```
plot(hc_mod)
```



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

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

## Cluster Dendrogram



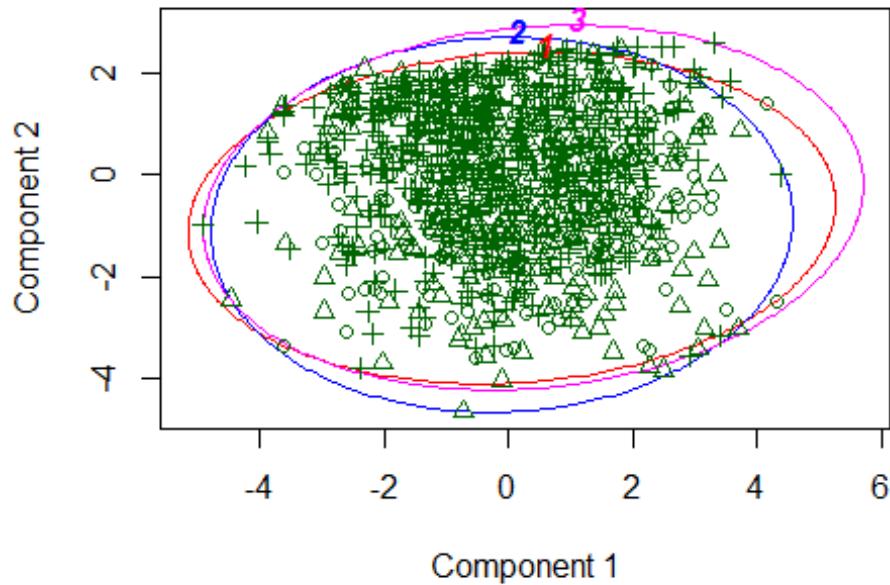
```
dist(music_trans, method = "euclidean")
hclust (*, "ward.D")

#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")
```

## hclust plot

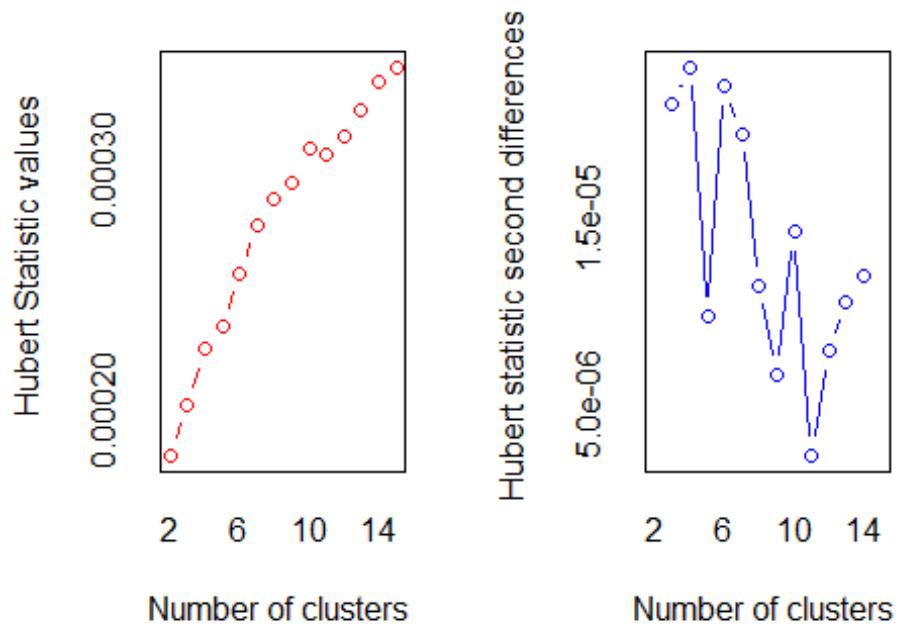


These two components explain 38.74 % of the point variab

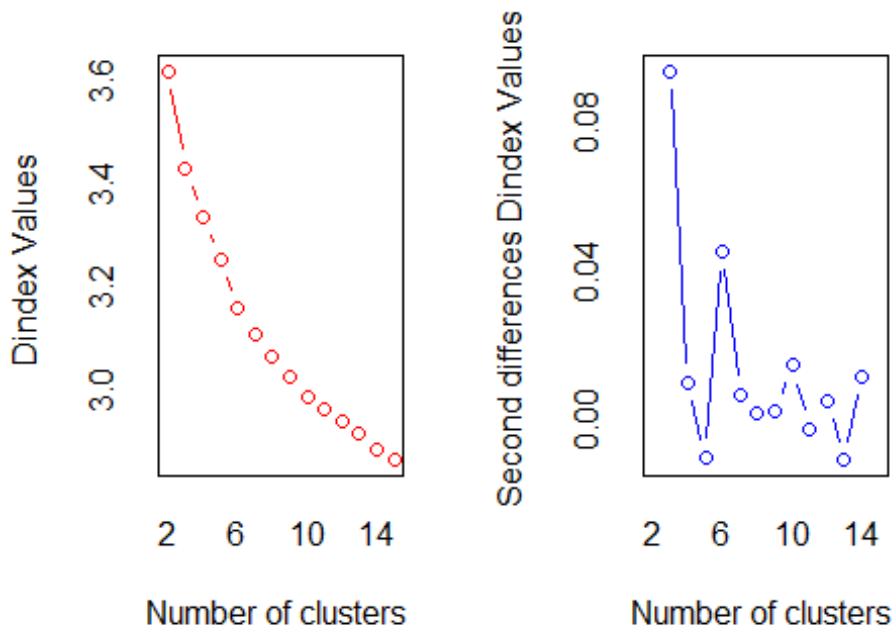
The cluster is cut clearly, but as the segment description shows that this cluster is kind of odd. Three groups are umbalance distribution, the first variable, which is general in this topic, has only a value.

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.

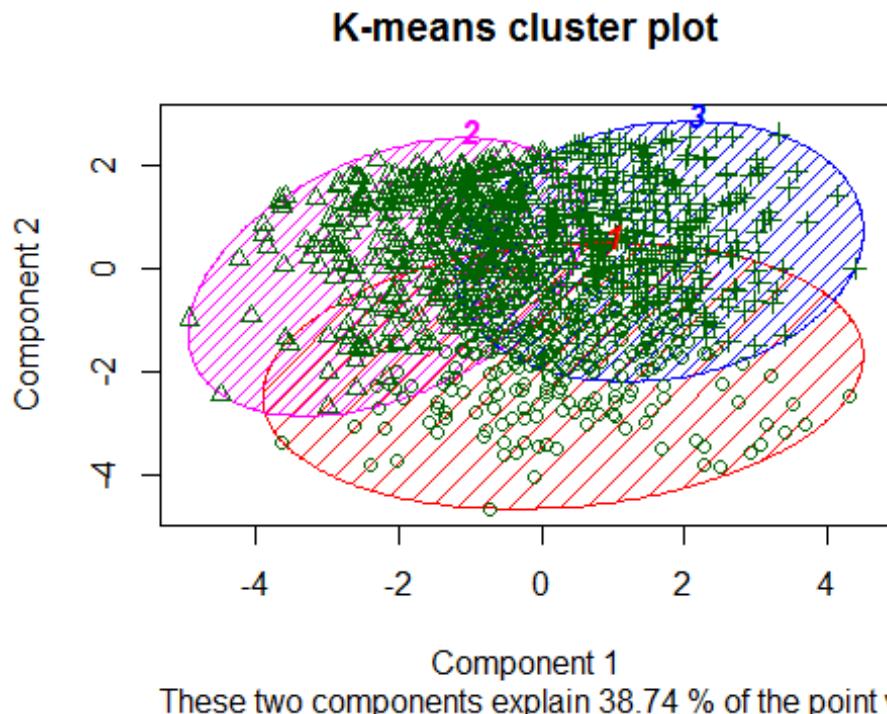
```

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 enthusiasts, 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 enthduisists 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
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## [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

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##	[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
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##	[17, ]	-1.2210230	0.9522975	-0.8433995	-1.4421898	-1.6295129
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##	[19, ]	0.2656958	0.2323720	0.6102413	-0.1052355	-1.6295129
##	[20, ]	1.0090552	-0.4875535	-0.8433995	-0.1052355	0.7171715
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##	[22, ]	1.7524146	0.2323720	-0.8433995	-1.4421898	1.4993997
##	[23, ]	0.2656958	0.2323720	-0.1165791	-0.7737127	-0.0650566
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##	[25, ]	-0.4776636	0.2323720	-0.1165791	0.5632416	0.7171715
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##	[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
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##	[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
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##	[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
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##	[49, ]	1.0090552	0.2323720	-0.1165791	-0.7737127	-0.0650566
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##	[52, ]	-0.4776636	1.6722230	2.0638820	-0.1052355	-0.0650566
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##	[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
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##	[69, ]	1.0090552	0.2323720	2.0638820	-0.7737127	-0.0650566
##	[70, ]	-1.2210230	1.6722230	2.0638820	-0.1052355	-1.6295129
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##	[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
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##	[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
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##	[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
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## [116, ]	-0.4776636	0.2323720	0.6102413	-0.1052355	0.7171715
## [117, ]	-1.2210230	-1.2074790	0.6102413	1.2317188	-1.6295129
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## [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
##	[2, ]	-0.70083518	-1.7010481	-1.5262117	-0.77120911
##	[3, ]	2.40714959	1.1505014	-0.8609231	-0.77120911
##	[4, ]	0.85315721	-1.7010481	-1.5262117	-0.77120911
##	[5, ]	-0.70083518	-0.2752733	-1.5262117	1.77706090
##	[6, ]	-0.70083518	1.1505014	0.4696543	0.07821423
##	[7, ]	-0.70083518	1.1505014	-0.1956344	0.92763756
##	[8, ]	-0.70083518	0.4376140	1.1349430	-0.77120911
##	[9, ]	-0.70083518	0.4376140	-1.5262117	-0.77120911
##	[10, ]	-0.70083518	0.4376140	0.4696543	-0.77120911
##	[11, ]	-0.70083518	1.1505014	-1.5262117	0.92763756
##	[12, ]	-0.70083518	1.1505014	-0.1956344	-0.77120911
##	[13, ]	-0.70083518	1.1505014	-0.1956344	1.77706090
##	[14, ]	-0.70083518	-0.2752733	-0.1956344	-0.77120911
##	[15, ]	2.40714959	-0.2752733	-1.5262117	2.62648423
##	[16, ]	0.07616101	1.1505014	-0.1956344	0.92763756
##	[17, ]	-0.70083518	1.1505014	-1.5262117	-0.77120911
##	[18, ]	0.07616101	-1.7010481	-0.1956344	0.92763756
##	[19, ]	-0.70083518	-0.2752733	-0.1956344	-0.77120911
##	[20, ]	-0.70083518	0.4376140	-0.8609231	-0.77120911
##	[21, ]	0.85315721	1.1505014	1.1349430	0.07821423
##	[22, ]	1.63015340	1.1505014	-0.1956344	0.92763756

##	[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
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##	[1010, ]	-0.2163344	-0.1779823	-1.51968319	0.5998996
##		Adrenaline.sports	Pets		

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## [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
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##	[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
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##	[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

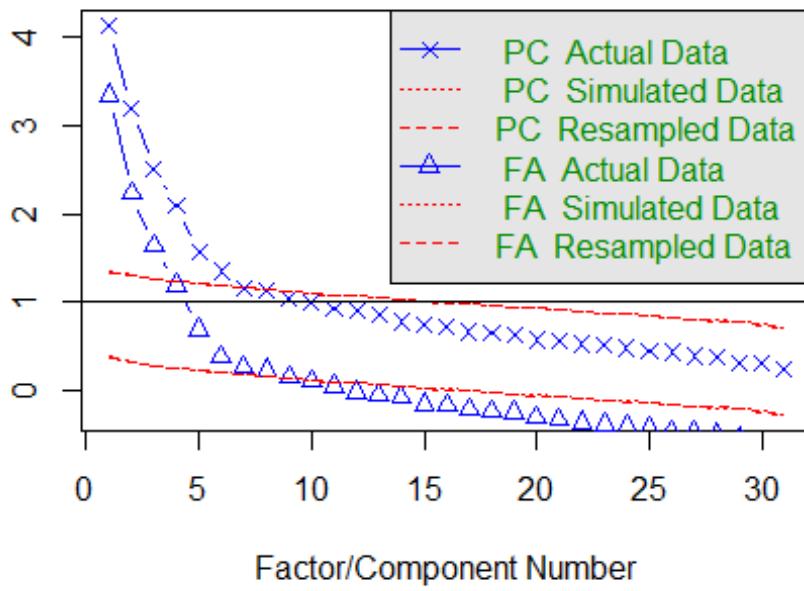
# Play with FA utilities

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

```

eigenvalues of principal components and factor analysis

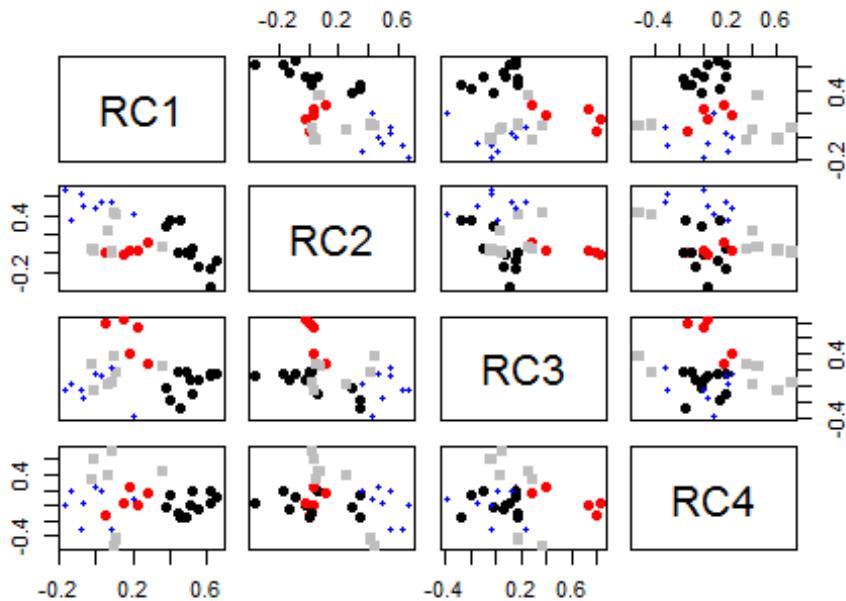
### Parallel Analysis Scree Plots



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

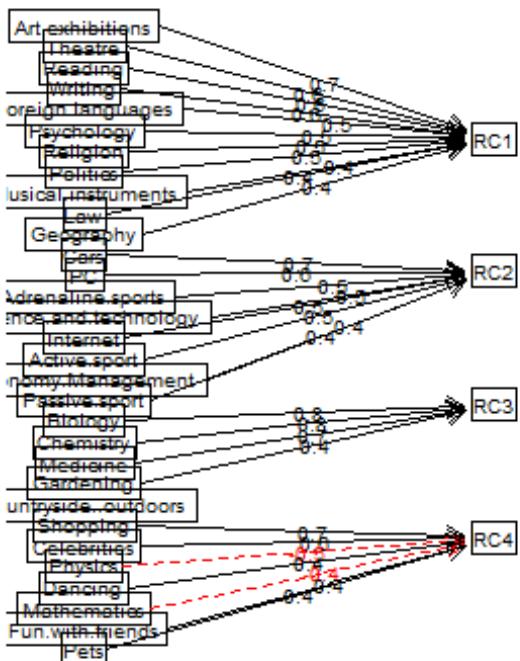
```
fa.plot(fit.pc.hobbies) # See Correlations within Factors
```

## Principal Component Analysis

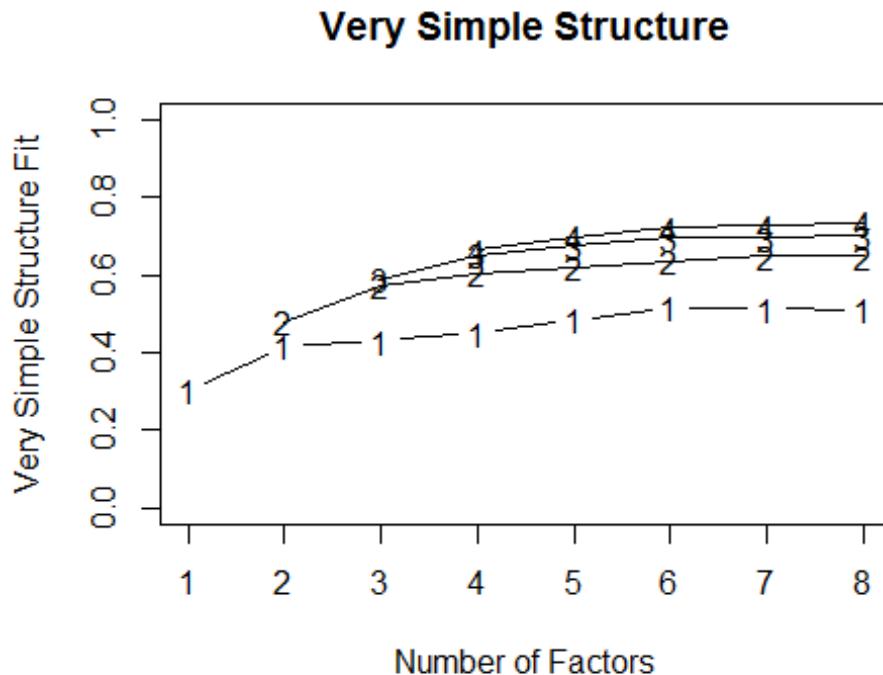


```
fa.diagram(fit.pc.hobbies) # Visualize the relationship
```

## 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
##          Romantic       Sci.fi          War
0.6127979
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
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## [66,] 1.5649873 1.3502685 0.6468366 -0.4048938 1.43923275 1.3664509
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## [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
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##	[88, ]	-1.2702363	1.3502685	0.6468366	0.4229256	-1.60500825	1.3664509
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##	[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
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##	[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
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##	[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
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##	[110, ]	-1.2702363	0.5156472	-0.6366702	-1.2327132	1.43923275	1.3664509
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##	[113, ]	-1.2702363	-0.3189741	-0.6366702	0.4229256	-0.08288775	-1.5967598
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##	[117, ]	-1.2702363	-1.1535953	0.6468366	1.2507450	-0.08288775	-0.1151545
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##	[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
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##	[132, ]	0.1473755	1.3502685	-3.2036837	-2.0605326	0.67817250	-0.1151545
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## [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

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##	[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
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##	[283, ]	0.1473755	0.5156472	0.6468366	-1.2327132	-1.60500825	-0.5967598
##	[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

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## [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
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## [295,] 0.1473755 -0.3189741 -0.6366702 -1.2327132 -0.84394800 -0.1151545
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## [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
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## [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
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## [338,] -0.5614304 -1.1535953  0.6468366 -2.0605326 -0.84394800  1.3664509
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```

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## [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
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## [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

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##	[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
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##	[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
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##	[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
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##	[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
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##	[511, ]	-0.5614304	-0.3189741	-0.6366702	0.4229256	0.67817250	0.6256482
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##	[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

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## [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
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## [546,] 1.5649873 1.3502685 0.6468366 -0.4048938 1.43923275 1.3664509
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## [554,] -0.5614304 -1.1535953 0.6468366 1.2507450 -0.08288775 -0.8559571
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## [576,] -0.5614304 -1.1535953 0.6468366 -0.4048938 -0.08288775 -0.1151545
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## [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
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## [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

```

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## [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
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## [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
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##	[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
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##	[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
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##	[665, ]	-1.2702363	-1.1535953	0.6468366	1.2507450	-1.60500825	-0.1151545
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##	[667, ]	1.5649873	-0.3189741	0.6468366	0.4229256	1.43923275	-0.8559571
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##	[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
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##	[683, ]	-0.5614304	0.5156472	-0.6366702	-1.2327132	0.67817250	1.3664509
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##	[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

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##	[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

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## [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
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## [856,]  0.1473755  0.5156472  0.6468366 -0.4048938  0.67817250  0.6256482
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## [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
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## [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

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## [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
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## [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
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## [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
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## [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
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## [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

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## [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
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## [996,] 0.8561814 1.3502685 -0.6366702 -0.4048938 1.43923275 -0.1151545
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## [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

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## [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
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## [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

```

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## [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

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## [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

```

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## [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
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## [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

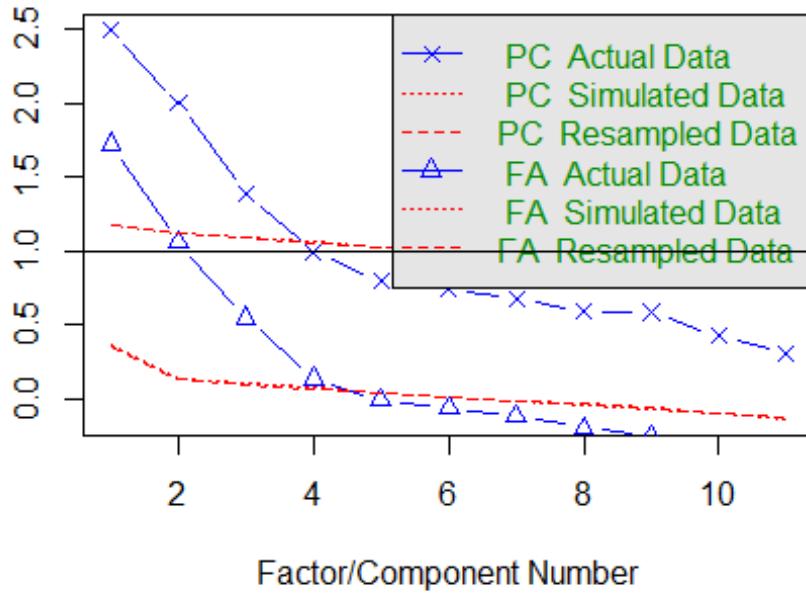
# Play with FA utilities

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

```

eigenvalues of principal components and factor analysis:

**Parallel Analysis Scree Plots**



```

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

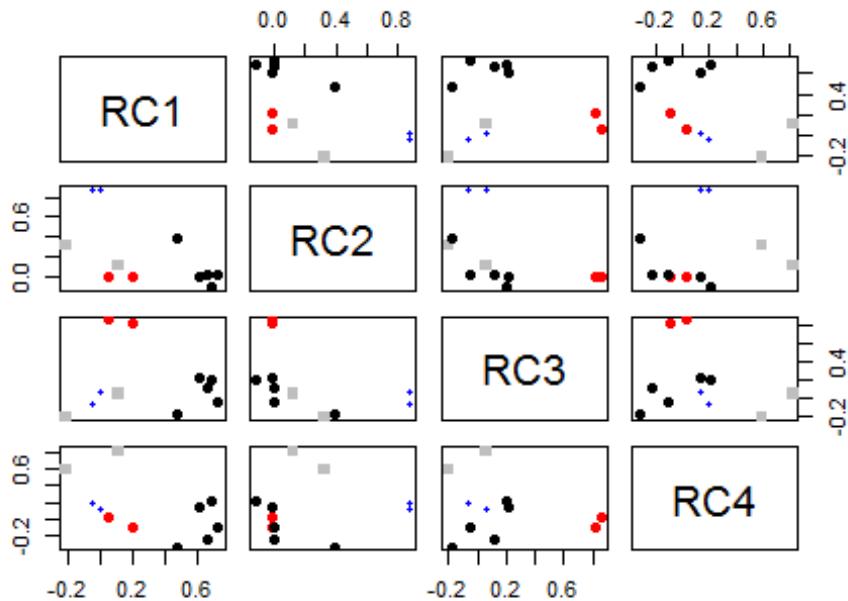
```

```

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

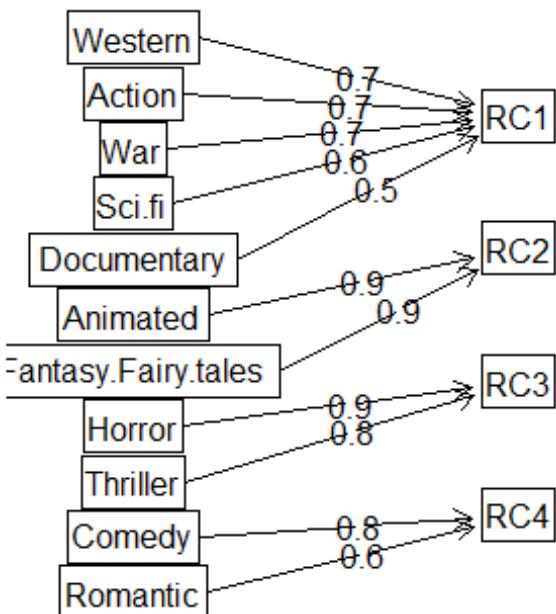
```

## Principal Component Analysis

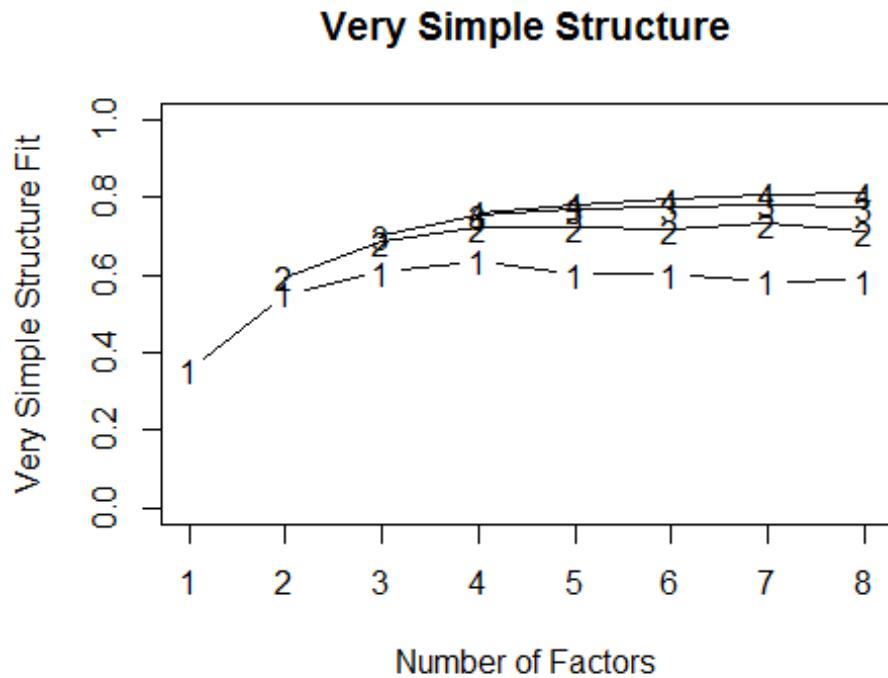


```
fa.diagram(fit.pc.movies) # Visualize the relationship
```

## 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 0.73 with 7 factors  
##  
## The Velicer MAP achieves a minimum of 0.04 with 2 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  
complex  
## 1 0.36 0.00 0.039  44 1.3e+03 2.3e-243     10.1 0.36 0.168 994.3 1134.0  
1.0  
## 2 0.55 0.59 0.037  34 4.7e+02 2.3e-77      6.4 0.59 0.112 230.9  338.9  
1.1  
## 3 0.61 0.69 0.048  25 1.8e+02 7.5e-25      4.7 0.70 0.078  4.1   83.5  
1.3  
## 4 0.64 0.72 0.064  17 7.4e+01 4.9e-09      3.7 0.76 0.057 -43.9   10.1  
1.4  
## 5 0.60 0.72 0.090  10 2.1e+01 2.4e-02      3.3 0.79 0.032 -48.6  -16.8  
1.4  
## 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					

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## [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	
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## [292, ]	1.1855890	0.06476678	1.0052620	0.1937777	0.6951791	
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## [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
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## [297, ]	-0.3495967	-0.66206039	1.0052620	-1.3974051	-0.1137275
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## [298, ]	0.4179961	-1.38888755	0.1831449	0.1937777	-0.9226341
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## [299, ]	-1.1171896	1.51842111	1.0052620	0.9893691	1.5040857
1.3542194					
## [300, ]	0.4179961	1.51842111	1.8273791	0.1937777	-0.9226341
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## [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
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## [304, ]	-0.3495967	0.79159394	-0.6389722	-0.6018137	-0.1137275
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## [305, ]	-1.1171896	-0.66206039	0.1831449	-0.6018137	-0.9226341
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## [306, ]	0.4179961	-0.66206039	-0.6389722	0.1937777	0.6951791
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## [307, ]	1.1855890	0.79159394	1.8273791	1.7849606	1.5040857
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## [308, ]	0.4179961	-1.38888755	-1.4610893	1.7849606	1.5040857
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## [309, ]	-1.1171896	0.06476678	-1.4610893	-1.3974051	-1.7315407
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## [310, ]	-1.1171896	0.79159394	-1.4610893	-1.3974051	0.6951791
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## [311, ]	-1.1171896	-1.38888755	-0.6389722	-1.3974051	-1.7315407
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## [312, ]	-0.3495967	1.51842111	1.8273791	1.7849606	-0.1137275
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## [313, ]	-0.3495967	0.06476678	0.1831449	0.1937777	-0.1137275
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## [314, ]	-1.1171896	0.79159394	-1.4610893	0.1937777	0.6951791
0.6120807					
## [315, ]	1.9531818	-0.66206039	1.8273791	1.7849606	1.5040857
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## [316, ]	-1.1171896	-0.66206039	-1.4610893	-1.3974051	-1.7315407
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## [317, ]	-0.3495967	0.06476678	-0.6389722	-1.3974051	-1.7315407
0.6120807					

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## [318,] -0.3495967 -0.66206039 -1.4610893 -0.6018137 -0.1137275
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## [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
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## [322,] -0.3495967 1.51842111 -0.6389722 0.1937777 1.5040857
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## [324,] 0.4179961 -1.38888755 -1.4610893 -1.3974051 -0.1137275 -
1.3542194
## [325,] 0.4179961 -0.66206039 0.1831449 0.1937777 -0.1137275
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## [326,] 1.1855890 1.51842111 1.8273791 -0.6018137 0.6951791
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0.6120807
## [329,] 1.9531818 -0.66206039 1.0052620 0.1937777 -0.9226341
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## [330,] -0.3495967 0.79159394 -0.6389722 -0.6018137 -0.1137275 -
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## [331,] 0.4179961 0.06476678 -0.6389722 0.1937777 -0.1137275
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## [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

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## [343, ]	-0.3495967	0.79159394	1.0052620	0.1937777	-0.1137275
0.1300580					
## [344, ]	-0.3495967	-1.38888755	-0.6389722	-0.6018137	1.5040857
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## [349, ]	-1.1171896	-1.38888755	-0.6389722	1.7849606	1.5040857
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## [354, ]	-1.1171896	0.79159394	-0.6389722	-0.6018137	-0.1137275
1.6143354					
## [355, ]	0.4179961	0.06476678	-0.6389722	-0.6018137	-0.9226341
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1.3542194					
## [357, ]	-0.3495967	0.79159394	1.0052620	0.1937777	0.6951791
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1.3542194					
## [359, ]	-1.1171896	0.06476678	0.1831449	0.1937777	0.6951791
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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
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## [365, ]	0.4179961	0.06476678	0.1831449	-0.6018137	0.6951791
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## [366, ]	1.9531818	-1.38888755	1.8273791	0.9893691	1.5040857
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## [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
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## [372, ]	0.4179961	-0.66206039	-0.6389722	1.7849606	1.5040857
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## [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
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## [379, ]	-1.1171896	0.79159394	1.8273791	-1.3974051	-0.9226341
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## [383, ]	-1.1171896	0.79159394	-0.6389722	-1.3974051	-0.9226341
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## [384, ]	1.1855890	0.06476678	0.1831449	0.1937777	-0.1137275
1.6143354					
## [385, ]	0.4179961	0.79159394	1.0052620	0.9893691	0.6951791
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## [386, ]	0.4179961	0.79159394	1.8273791	1.7849606	1.5040857
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## [387, ]	0.4179961	1.51842111	1.0052620	-0.6018137	-0.1137275
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## [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					

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## [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
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0.6120807
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1.3542194
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0.1300580
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1.3542194
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1.3542194

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## [418, ]	1.9531818	-1.38888755	1.8273791	-1.3974051	0.6951791
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## [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
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## [424, ]	0.4179961	-1.38888755	0.1831449	0.1937777	-0.1137275
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0.8721967					
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1.6143354					
## [435, ]	-1.1171896	0.79159394	0.1831449	0.1937777	-0.9226341
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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	-
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## [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						
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## [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	
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## [482, ]	-1.1171896	-1.38888755	-1.4610893	0.9893691	0.6951791	
0.8721967						
## [483, ]	1.1855890	0.79159394	1.0052620	0.1937777	-1.7315407	-
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## [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	
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## [489, ]	-0.3495967	0.06476678	0.1831449	1.7849606	1.5040857	
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## [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
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## [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					
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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
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## [508, ]	-1.1171896	-0.66206039	1.8273791	0.9893691	0.6951791
0.8721967					
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1.6143354					
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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
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## [519, ]	-0.3495967	0.79159394	0.1831449	0.1937777	-0.9226341
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1.6143354					
## [526, ]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275
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0.1300580					
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0.8721967					
## [529, ]	-0.3495967	1.51842111	-1.4610893	0.1937777	1.5040857
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0.8721967					
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0.8721967					
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1.6143354					
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0.1300580					
## [534, ]	0.4179961	-0.66206039	-0.6389722	0.1937777	1.5040857
1.6143354					
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## [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
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## [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
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## [544, ]	0.4179961	0.06476678	-0.6389722	1.7849606	0.6951791
0.8721967					
## [545, ]	0.4179961	-0.66206039	-0.6389722	-0.6018137	0.6951791
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## [546, ]	0.4179961	0.06476678	0.1831449	0.1937777	-0.1137275
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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
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## [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
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## [567, ]	-1.1171896	0.79159394	0.1831449	-1.3974051	-0.9226341
1.3542194					

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## [568,] -0.3495967  0.06476678  1.0052620 -0.6018137 -0.1137275 -
0.6120807
## [569,] -1.1171896  0.06476678 -1.4610893 -1.3974051 -1.7315407
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## [570,] -0.3495967 -0.66206039  0.1831449 -1.3974051 -0.9226341
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0.6120807
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1.3542194
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1.3542194
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0.8721967
## [575,] -1.1171896  0.06476678 -0.6389722 -1.3974051 -1.7315407 -
0.6120807
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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
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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	
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## [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						
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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 -
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## [619,] -1.1171896 1.51842111 1.8273791 1.7849606 -1.7315407
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## [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
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1.3542194
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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
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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
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1.3542194
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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

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

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## [671, ]	-1.1171896	-0.66206039	0.1831449	0.1937777	-0.9226341	-
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## [673, ]	-0.3495967	-1.38888755	-1.4610893	0.1937777	-0.9226341	
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## [674, ]	-1.1171896	0.06476678	-0.6389722	0.9893691	0.6951791	
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## [675, ]	0.4179961	0.79159394	-1.4610893	-1.3974051	-0.1137275	-
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## [676, ]	-1.1171896	-0.66206039	-0.6389722	-0.6018137	-0.1137275	-
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## [677, ]	-1.1171896	-0.66206039	-1.4610893	-0.6018137	-1.7315407	
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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	
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## [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						
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1.3542194						
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1.3542194						
## [702, ]	-1.1171896	-0.66206039	-0.6389722	0.1937777	-0.1137275	-
0.6120807						
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## [705, ]	-0.3495967	0.79159394	1.8273791	-0.6018137	0.6951791	
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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
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## [719, ]	1.9531818	-0.66206039	0.1831449	1.7849606	-0.1137275
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## [720, ]	-0.3495967	-0.66206039	0.1831449	-0.6018137	-0.9226341
0.6120807					-
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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
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## [724, ]	-1.1171896	-0.66206039	-1.4610893	0.9893691	-0.1137275
0.6120807					-
## [725, ]	-0.3495967	0.06476678	0.1831449	0.1937777	0.6951791
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## [729, ]	-1.1171896	1.51842111	-0.6389722	-0.6018137	-0.1137275
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## [732, ]	-0.3495967	0.79159394	0.1831449	0.9893691	0.6951791
1.6143354					
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0.6120807					-
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## [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
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## [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
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## [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
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## [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
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## [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
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0.8721967					
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0.1300580					

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## [768,] -0.3495967 -0.66206039 -0.6389722 0.1937777 0.6951791
0.8721967
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0.1300580
## [770,] 0.4179961 0.06476678 0.1831449 0.1937777 -0.1137275
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## [771,] -1.1171896 -1.38888755 -1.4610893 -1.3974051 -1.7315407 -
1.3542194
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0.6120807
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1.3542194
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## [782,] -1.1171896 -1.38888755 -1.4610893 0.9893691 0.6951791 -
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## [783,] 1.9531818 -0.66206039 1.8273791 1.7849606 1.5040857
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## [784,] -1.1171896 -0.66206039 0.1831449 0.1937777 -0.1137275 -
0.6120807
## [785,] -1.1171896 0.06476678 0.1831449 1.7849606 -0.9226341 -
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## [787,] -1.1171896 -0.66206039 -0.6389722 1.7849606 1.5040857
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## [788,] -1.1171896 1.51842111 0.1831449 -0.6018137 -0.1137275
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## [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	
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## [795, ]	-1.1171896	1.51842111	-1.4610893	-1.3974051	-1.7315407	-
1.3542194						
## [796, ]	1.9531818	-1.38888755	1.8273791	-1.3974051	1.5040857	-
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## [797, ]	0.4179961	0.79159394	1.0052620	-0.6018137	0.6951791	
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## [798, ]	-1.1171896	1.51842111	-0.6389722	-0.6018137	-0.9226341	-
0.6120807						
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## [800, ]	1.1855890	-1.38888755	-1.4610893	-0.6018137	0.6951791	
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## [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
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## [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
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## [887, ]	1.1855890	-1.38888755	-1.4610893	-1.3974051	-0.1137275
0.8721967					
## [888, ]	-0.3495967	0.79159394	0.1831449	-0.6018137	-0.1137275
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## [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					

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## [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
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## [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 -
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## [904,] 1.1855890 -0.66206039 0.1831449 1.7849606 0.6951791
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## [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

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## [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	
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## [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	
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## [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
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## [959, ]	-1.1171896	0.06476678	-0.6389722	-0.6018137	-0.9226341
0.1300580					
## [960, ]	1.1855890	-0.66206039	1.8273791	0.9893691	1.5040857
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## [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						

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## [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
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1.3542194
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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
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##	[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
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##	[50, ]	-1.3844812	-0.2592677	-0.9616259
##	[51, ]	1.6242891	-1.0139085	-0.1170675
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##	[55, ]	1.6242891	1.2500140	2.4166076
##	[56, ]	0.8720965	2.0046548	0.7274909
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##	[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

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##	[65, ]	0.1199040	-0.2592677	-0.1170675
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##	[67, ]	0.8720965	2.0046548	-0.9616259
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##	[95, ]	-1.3844812	1.2500140	-0.9616259
##	[96, ]	0.1199040	-0.2592677	-0.1170675
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##	[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
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##	[104, ]	1.6242891	1.2500140	1.5720492
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##	[108, ]	-0.6322886	-1.0139085	-0.9616259
##	[109, ]	-0.6322886	-0.2592677	0.7274909
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## [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
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## [132, ]	-1.3844812	0.4953731	-0.9616259
## [133, ]	-0.6322886	-1.0139085	-0.9616259
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## [135, ]	0.8720965	1.2500140	-0.1170675
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## [137, ]	-1.3844812	-1.0139085	0.7274909
## [138, ]	0.8720965	-0.2592677	-0.1170675
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## [143, ]	0.1199040	-0.2592677	-0.9616259
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## [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
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## [150, ]	-1.3844812	-1.0139085	-0.1170675
## [151, ]	-1.3844812	-1.0139085	1.5720492
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## [155, ]	-0.6322886	-1.0139085	0.7274909
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## [157, ]	-0.6322886	-1.0139085	-0.1170675
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## [167, ]	-0.6322886	-1.0139085	2.4166076
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## [174, ]	-1.3844812	2.0046548	1.5720492
## [175, ]	0.1199040	-1.0139085	2.4166076
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## [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
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## [187, ]	0.1199040	-0.2592677	1.5720492
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##	[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
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##	[333, ]	1.6242891	-1.0139085	-0.9616259
##	[334, ]	0.1199040	-0.2592677	-0.1170675
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##	[336, ]	-0.6322886	1.2500140	-0.1170675
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##	[338, ]	-1.3844812	2.0046548	0.7274909
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##	[340, ]	-0.6322886	-1.0139085	0.7274909
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##	[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
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##	[348, ]	-1.3844812	-0.2592677	-0.9616259
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##	[350, ]	-0.6322886	1.2500140	-0.9616259
##	[351, ]	-1.3844812	-0.2592677	-0.9616259
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##	[353, ]	-0.6322886	-1.0139085	-0.1170675
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##	[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
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##	[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
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##	[369, ]	1.6242891	-0.2592677	0.7274909
##	[370, ]	-1.3844812	2.0046548	-0.9616259
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##	[373, ]	-0.6322886	1.2500140	-0.1170675
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##	[375, ]	-0.6322886	0.4953731	-0.9616259
##	[376, ]	0.1199040	0.4953731	-0.9616259
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##	[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
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##	[398, ]	0.8720965	-1.0139085	-0.9616259
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##	[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
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## [423, ]	1.6242891	2.0046548	0.7274909
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## [427, ]	-0.6322886	-1.0139085	-0.9616259
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## [440, ]	-0.6322886	1.2500140	-0.9616259
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## [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
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## [455, ]	-0.6322886	-1.0139085	-0.9616259
## [456, ]	-0.6322886	1.2500140	-0.1170675
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## [459, ]	1.6242891	2.0046548	2.4166076
## [460, ]	-0.6322886	0.4953731	0.7274909
## [461, ]	-1.3844812	-1.0139085	-0.9616259
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## [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
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## [478, ]	-0.6322886	-1.0139085	-0.9616259
## [479, ]	-0.6322886	0.4953731	-0.1170675
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## [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
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## [497, ]	0.8720965	-0.2592677	1.5720492
## [498, ]	0.8720965	-1.0139085	2.4166076
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## [505, ]	-0.6322886	-1.0139085	-0.9616259
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## [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
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## [524, ]	-0.6322886	0.4953731	-0.9616259
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## [526, ]	0.1199040	-1.0139085	0.7274909
## [527, ]	0.1199040	-1.0139085	-0.9616259
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## [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
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##	[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			Dance		Folk
## 3.328713			3.116832		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
0.501
## [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
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## [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

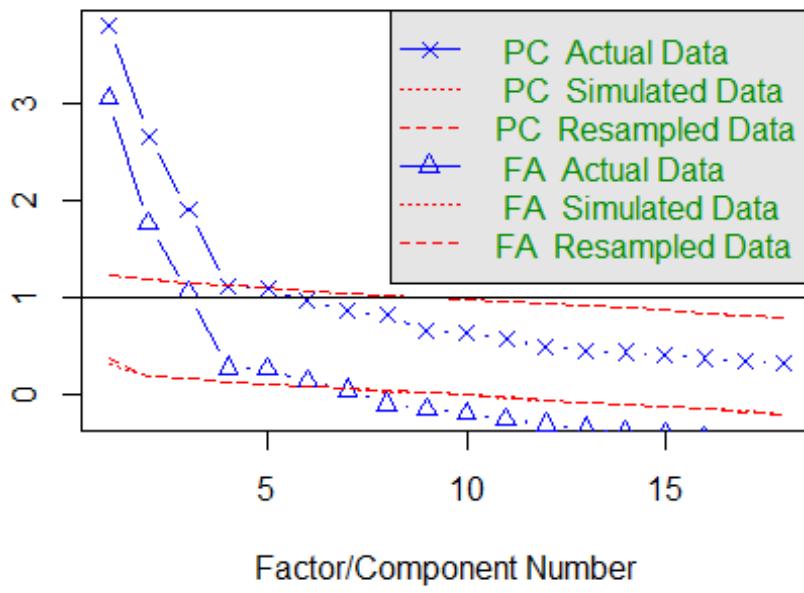
```

# Play with FA utilities

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

eigenvalues of principal components and factor analysis

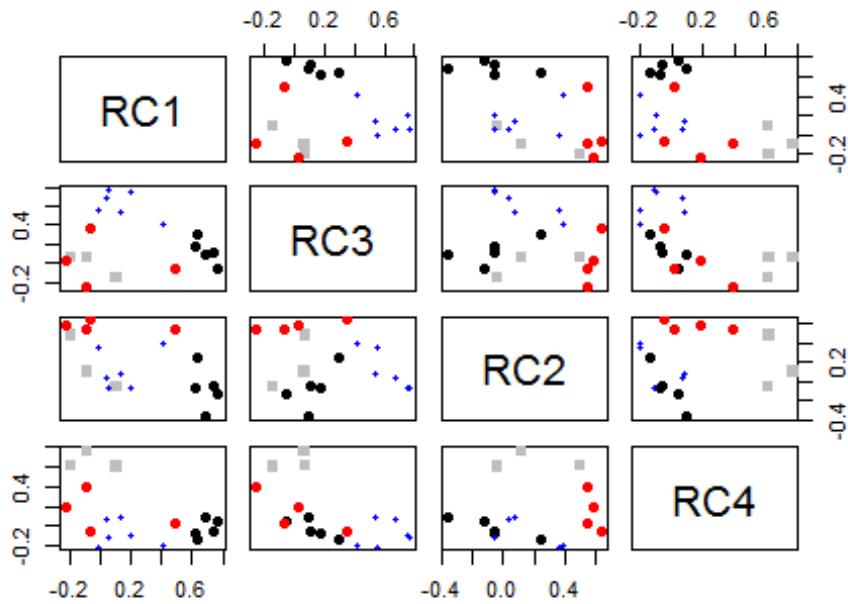
### Parallel Analysis Scree Plots



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

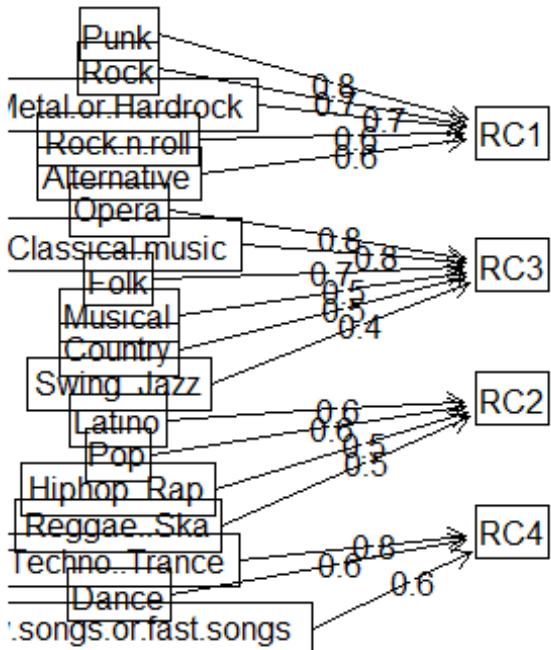
```
fa.plot(fit.pc.music) # See Correlations within Factors
```

## Principal Component Analysis

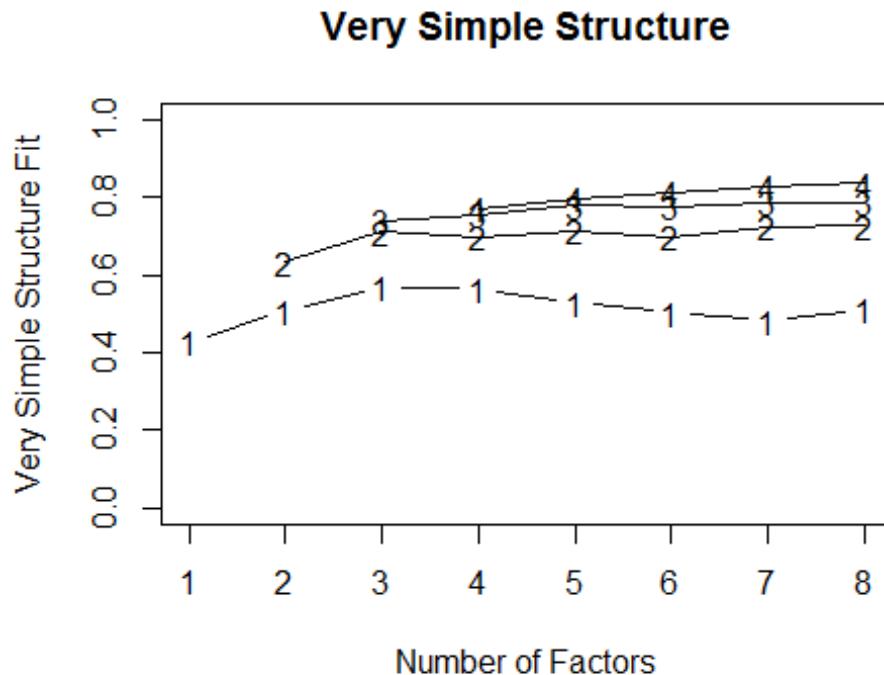


```
fa.diagram(fit.pc.music) # Visualize the relationship
```

## 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.