

Lab 1

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You should have RStudio installed to edit this file. You will write code in places marked “TO-DO” to complete the problems. Most of this will be a pure programming assignment but there are some questions that instead ask you to “write a few sentences”. This is a W class! The tools for the solutions to these problems can be found in the class practice lectures. I prefer you to use the methods I taught you. If you google and find esoteric code you don’t understand, this doesn’t do you too much good.

To “hand in” the homework, you should first download this file. The best way to do this is by cloning the class repository then copying this file from the folder of that clone into the folder that is your personal class repository. Then do the assignment by filling in the TO-DO’s. After you’re done, compile this file into a PDF (use the “knit to PDF” button on the submenu above). This PDF will include output of your code. Then push the PDF and this Rmd file by the deadline to your github repository in a directory called “labs”.

Basic R Skills

- Print out the numerical constant pi with ten digits after the decimal point using the internal constant pi.

```
options(digits=11)
x <- pi
x

## [1] 3.1415926536
```

- Sum up the first 103 terms of the series $1 + 1/2 + 1/4 + 1/8 + \dots$

```
sum(1/(2^(0:102)))

## [1] 2
```

- Find the product of the first 37 terms in the sequence $1/3, 1/6, 1/9 \dots$

```
prod(1/(3*(1:37)))

## [1] 1.613528728e-61

prod(1/seq(from=3, by=3, length.out=37))

## [1] 1.613528728e-61
```

- Find the product of the first 387 terms of $1 * 1/2 * 1/4 * 1/8 * \dots$

```
prod(1/(2^(0:386)))
```

```
## [1] 0
```

Is this answer *exactly* correct?

#TO-DO

- Figure out a means to express the answer more exactly. Not compute exactly, but express more exactly.

```
sum(log(1/(2^(0:386))))
```

```
## [1] -51771.856063
```

```
-log(2)*sum(0:386)
```

```
## [1] -51771.856063
```

- Create the sequence $x = [\text{Inf}, 20, 18, \dots, -20]$.

```
x <- c(Inf, seq(from=20, to=-20, by=-2))
```

```
x
```

```
## [1] Inf 20 18 16 14 12 10 8 6 4 2 0 -2 -4 -6 -8 -10 -  
12 -14
```

```
## [20] -16 -18 -20
```

Create the sequence $x = [\log_3(\text{Inf}), \log_3(100), \log_3(98), \dots, \log_3(-20)]$.

```
x <- c(Inf, seq(from=100, to=-20, by=-2))
```

```
x <- log(x, base=3)
```

```
## Warning: NaNs produced
```

```
log(100, 3)
```

```
## [1] 4.1918065486
```

Comment on the appropriateness of the non-numeric values.

NAN occurs because you cannot take the log of a negative number. -Inf occurs when you take the log of 0.

- Create a vector of booleans where the entry is true if $x[i]$ is positive and finite.

```
y = !is.nan(x) & is.finite(x) & x > 0
```

```
y
```

```
## [1] FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE  
TRUE
```

```
## [13] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE  
TRUE
```

```
## [25] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE  
TRUE
```

```
## [37] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE  
TRUE
```

```
## [49] TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
FALSE
```

```
FALSE
## [61] FALSE FALSE
```

- Locate the indices of the non-real numbers in this vector. Hint: use the `which` function. Don't hesitate to use the documentation via `?which`.

```
?which
which(!y)

## [1] 1 52 53 54 55 56 57 58 59 60 61 62

which(y == FALSE)

## [1] 1 52 53 54 55 56 57 58 59 60 61 62
```

- Locate the indices of the infinite quantities in this vector.

```
which(is.infinite(x))

## [1] 1 52
```

- Locate the indices of the min and max in this vector. Hint: use the `which.min` and `which.max` functions.

```
which.min(x)

## [1] 52

which.max(x)

## [1] 1
```

- Count the number of unique values in `x`.

```
length(unique(x))

## [1] 53
```

- Cast `x` to a factor. Do the number of levels make sense?

```
as.factor(x)

## [1] Inf 4.19180654857877 4.1734172518943
4.15464876785729
## [5] 4.13548512895119 4.11590933734319 4.09590327428938
4.07544759935851
## [9] 4.05452163806914 4.03310325630434 4.01116871959141
3.98869253500376
## [13] 3.96564727304425 3.94200336638929 3.91772888178973
3.89278926071437
## [17] 3.86714702345081 3.84076143030548 3.81358809221559
3.78557852142874
## [21] 3.75667961082847 3.72683302786084 3.69597450568212
3.66403300987579
## [25] 3.63092975357146 3.59657702661571 3.56087679500731
3.52371901428583
## [29] 3.48497958377173 3.44451784578705 3.40217350273288 3.3577627814323
```

```
## [33] 3.31107361281783 3.26185950714291 3.20983167673402
3.15464876785729
## [37] 3.09590327428938 3.03310325630434 2.96564727304425
2.89278926071437
## [41] 2.8135880922156 2.72683302786084 2.63092975357146
2.52371901428583
## [45] 2.40217350273288 2.26185950714291 2.09590327428938
1.89278926071437
## [49] 1.63092975357146 1.26185950714291 0.630929753571457 -Inf
## [53] NaN NaN NaN NaN
## [57] NaN NaN NaN NaN
## [61] NaN NaN
## 53 Levels: -Inf 0.630929753571457 1.26185950714291 ... NaN
```

- Cast x to integers. What do we learn about R's infinity representation in the integer data type?

```
as.integer(x)
```

```
## Warning: NAs introduced by coercion to integer range
## [1] NA 4 4 4 4 4 4 4 4 4 4 3 3 3 3 3 3 3 3 3 3 3
3 3
## [26] 3 3 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2 2 2 1
1 1
## [51] 0 NA NA NA NA NA NA NA NA NA NA NA NA
```

- Use x to create a new vector y containing only the real numbers in x.

```
y = x[!is.nan(x) & is.finite(x)]
y
```

```
## [1] 4.19180654858 4.17341725189 4.15464876786 4.13548512895 4.11590933734
## [6] 4.09590327429 4.07544759936 4.05452163807 4.03310325630 4.01116871959
## [11] 3.98869253500 3.96564727304 3.94200336639 3.91772888179 3.89278926071
## [16] 3.86714702345 3.84076143031 3.81358809222 3.78557852143 3.75667961083
## [21] 3.72683302786 3.69597450568 3.66403300988 3.63092975357 3.59657702662
## [26] 3.56087679501 3.52371901429 3.48497958377 3.44451784579 3.40217350273
## [31] 3.35776278143 3.31107361282 3.26185950714 3.20983167673 3.15464876786
## [36] 3.09590327429 3.03310325630 2.96564727304 2.89278926071 2.81358809222
## [41] 2.72683302786 2.63092975357 2.52371901429 2.40217350273 2.26185950714
## [46] 2.09590327429 1.89278926071 1.63092975357 1.26185950714 0.63092975357
```

- Use the left rectangle method to numerically integrate x^2 from 0 to 1 with rectangle width size $1e-6$.

```
sum(seq(from=0, to=1-(1e-6), by=1e-6)^2)*1e-6
## [1] 0.33333283333
```

- Calculate the average of 100 realizations of standard Bernoullis in one line using the sample function.

```
sum(sample(c(0,1), size=100, replace=TRUE))/100
```

```
## [1] 0.52
```

- ```
sum(sample(c(0,1), size=500, replace=TRUE, prob=c(0.1, 0.9)))/500
```

```
[1] 0.01
```

```
[1] 0.91
```

- ```
?rbinom
```

```
rbinom(n=1000, size=1, p=0.9)
```

```
##      [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 0 1 1 0
```

1 1 0

```
##      [38] 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1
```

1 1 1

```
## [75] 0 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 0 0 1 1 0
```

[illegible]

```
## [112] 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 0 1 1 1
1 1 1
```

```
1 1 1  
## [140] 1 1 1 1 1 0 1 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

```
## [149] 1 1 1 1 1 0 1 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
1 1 1
```

```
#0 [186] 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 0 0
```

[illegible]

```

1 1 1
## [??3] 1 1 0 1 1 1 1 1 1 1 1 1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1

```

```
## [225] 1 1 0 1 1 1 1 1 1 1 1 1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1  
1 1 1
```

[illegible][illegible]

```
## [297] 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 0 1 0 1 0 1 1 1 1 0 1 1 1
```

```
##### [297] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 0 1 0 1 0 1 1 1 1 1 0 1 1 1 1
1 1 1
```

```
## [334] 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

```

1 1 1

```

```
## [371] 1 1 1 0 1 0 1 1 1 1 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 0 1 1 1 1
```

1 1 1

```
## [408] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
```

1 1 1

```
## [445] 1 0 1 0 1 1 1 0 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1
```

1 1 1

```
## [482] 0 1 1 1 1 1 1 0 0 1 0 0 0 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1
```

```
1 1 0
... [716]
```

```
## [519] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 0
```

```
1 1 1
## [FFC] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 0 1 1 1 1 1 1 0 1 0
```

```
## [556] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 0 1 1 1 1 1 1 0 1 0
```

```
1 1 0
##      [503] 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 0 1
```

```
## [593] 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 0 1
1 0 1
```

```
1 0 1
## [630] 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1
```

```
## [630] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1
1 1 1
```

```

1 1 1
## [667] 1 0 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1

```

```
## [667] 1 0 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1
```

```

1 1 1
## [704] 1 1 1 1 0 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1
1 1 1
## [741] 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1
1 0 0
## [778] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 0 1 1 1 1 1 1 1 1 1 1
1 1 1
## [815] 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1
1 1 1
## [852] 0 0 1 0 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1
1 1 1
## [889] 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1
1 1 1
## [926] 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1
1 1 1
## [963] 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 0 1 1 1 1 0 1 1 0 0 1 1 1 1
1 0 1
## [1000] 1

```

- In class we considered a variable `x_3` which measured “criminality”. We imagined $L = 4$ levels “none”, “infraction”, “misdemeanor” and “felony”. Create a variable `x_3` here with 100 random elements (equally probable). Create it as a nominal (i.e. unordered) factor.

```

x_3 = as.factor(sample(c("none", "infraction", "misdemeanor", "felony"),
size=100, replace=TRUE))
x_3
## [1] infraction none misdemeanor infraction misdemeanor
infraction
## [7] felony misdemeanor none none misdemeanor
misdemeanor
## [13] infraction infraction infraction felony felony none
## [19] infraction misdemeanor infraction felony misdemeanor
infraction
## [25] infraction felony none none felony
misdemeanor
## [31] misdemeanor felony infraction infraction misdemeanor none
## [37] felony felony felony none infraction
infraction
## [43] infraction felony misdemeanor infraction felony none
## [49] infraction misdemeanor felony infraction none
misdemeanor
## [55] infraction felony infraction none misdemeanor felony
## [61] misdemeanor misdemeanor none infraction misdemeanor none
## [67] none infraction none none misdemeanor
infraction
## [73] none infraction misdemeanor none misdemeanor
misdemeanor
## [79] misdemeanor none misdemeanor misdemeanor infraction
misdemeanor

```

```
## [85] none          none          none          none          misdemeanor
infractio
## [91] none          infractio  felony          misdemeanor misdemeanor
misdemeanor
## [97] infractio  infractio  felony          felony
## Levels: felony infractio misdemeanor none
```

- Use x_3 to create x_3_bin, a binary feature where 0 is no crime and 1 is any crime.

```
x_3_bin = x_3 != "none"
x_3_bin
```

```
## [1] TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE FALSE FALSE TRUE
TRUE
## [13] TRUE TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE
TRUE
## [25] TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
FALSE
## [37] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
FALSE
## [49] TRUE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE TRUE FALSE TRUE
TRUE
## [61] TRUE TRUE FALSE TRUE TRUE FALSE FALSE TRUE FALSE FALSE TRUE
TRUE
## [73] FALSE TRUE TRUE FALSE TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE
TRUE
## [85] FALSE FALSE FALSE FALSE TRUE TRUE FALSE TRUE TRUE TRUE TRUE
TRUE
## [97] TRUE TRUE TRUE TRUE
```

- Use x_3 to create x_3_ord, an ordered factor variable. Ensure the proper ordinal ordering.

```
x_3_ord = factor(x_3, levels = c("none", "infractio", "misdemeanor",
"infractio", "felony"), order=TRUE)
x_3_ord
```

```
## [1] infractio  none          misdemeanor infractio  misdemeanor
infractio
## [7] felony          misdemeanor none          none          misdemeanor
misdemeanor
## [13] infractio  infractio  infractio  felony          felony          none
## [19] infractio  misdemeanor infractio  felony          misdemeanor
infractio
## [25] infractio  felony          none          none          felony
misdemeanor
## [31] misdemeanor felony          infractio  infractio  misdemeanor none
## [37] felony          felony          felony          none          infractio
infractio
## [43] infractio  felony          misdemeanor infractio  felony          none
## [49] infractio  misdemeanor felony          infractio  none
misdemeanor
```

```
## [55] infraction felony infraction none misdemeanor felony
## [61] misdemeanor misdemeanor none infraction misdemeanor none
## [67] none infraction none none misdemeanor
infraction
## [73] none infraction misdemeanor none misdemeanor
misdemeanor
## [79] misdemeanor none misdemeanor misdemeanor infraction
misdemeanor
## [85] none none none none misdemeanor
infraction
## [91] none infraction felony misdemeanor misdemeanor
misdemeanor
## [97] infraction infraction felony felony
## Levels: none < infraction < misdemeanor < felony
```

- Convert this variable into three binary variables without any information loss and put them into a data matrix.

```
x_3_infraction = as.integer(x_3 == "infraction")
x_3_misdemeanor = as.integer(x_3 == "misdemeanor")
x_3_felony = as.integer(x_3 == "felony")
X = cbind(x_3_infraction, x_3_misdemeanor, x_3_felony)
head(X)

##      x_3_infraction x_3_misdemeanor x_3_felony
## [1,]             1             0             0
## [2,]             0             0             0
## [3,]             0             1             0
## [4,]             1             0             0
## [5,]             0             1             0
## [6,]             1             0             0

p_level_names = levels(x_3)[-1]
X = matrix(NA, nrow = length(x_3), ncol = length(p_level_names))
colnames(X) = p_level_names
for (j in 1 : length(p_level_names)){
  X[, j] = as.integer(x_3 == p_level_names[j])
}
head(X)

##      infraction misdemeanor none
## [1,]          1             0     0
## [2,]          0             0     1
## [3,]          0             1     0
## [4,]          1             0     0
## [5,]          0             1     0
## [6,]          1             0     0
```

- What should the sum of each row be (in English)?

#TO-DO

Verify that.

The sum of each row should be either 0 or 1. Due to the fact that these events appear to be mutually exclusive.

```
table(rowSums(X))
```

```
##  
##  0  1  
## 18 82
```

- How should the column sum look (in English)?

#TO-DO

Verify that.

```
colSums(X)
```

```
##  infraction misdemeanor      none  
##           29           29        24
```

- Generate a matrix with 100 rows where the first column is realization from a normal with mean 17 and variance 38, the second column is uniform between -10 and 10, the third column is poisson with mean 6, the fourth column in exponential with lambda of 9, the fifth column is binomial with $n = 20$ and $p = 0.12$ and the sixth column is a binary variable with exactly 24% 1's dispersed randomly. Name the rows the entries of the `fake_first_names` vector.

```
k=100  
X = matrix(data=NA,nrow=k,ncol=6)  
X[,1]= rnorm(n=k,mean = 17,sd=sqrt(38))  
X[,2]= runif(n=k,min=-10,max=10)  
X[,3]= rpois(k,lambda=6)  
X[,4]= rexp(k,rate = 9)  
X[,5]= rbinom(k, size=20,p=0.12)  
X[,6]= sample(c(rep(1,k*0.24),rep(0,k*0.76)))
```

```
fake_first_names = c(  
  "Sophia", "Emma", "Olivia", "Ava", "Mia", "Isabella", "Riley",  
  "Aria", "Zoe", "Charlotte", "Lily", "Layla", "Amelia", "Emily",  
  "Madelyn", "Aubrey", "Adalyn", "Madison", "Chloe", "Harper",  
  "Abigail", "Aaliyah", "Avery", "Evelyn", "Kaylee", "Ella", "Ellie",  
  "Scarlett", "Arianna", "Hailey", "Nora", "Addison", "Brooklyn",  
  "Hannah", "Mila", "Leah", "Elizabeth", "Sarah", "Eliana", "Mackenzie",  
  "Peyton", "Maria", "Grace", "Adeline", "Elena", "Anna", "Victoria",  
  "Camilla", "Lillian", "Natalie", "Jackson", "Aiden", "Lucas",  
  "Liam", "Noah", "Ethan", "Mason", "Caden", "Oliver", "Elijah",  
  "Grayson", "Jacob", "Michael", "Benjamin", "Carter", "James",
```

```
"Jayden", "Logan", "Alexander", "Caleb", "Ryan", "Luke", "Daniel",
"Jack", "William", "Owen", "Gabriel", "Matthew", "Connor", "Jayce",
"Isaac", "Sebastian", "Henry", "Muhammad", "Cameron", "Wyatt",
"Dylan", "Nathan", "Nicholas", "Julian", "Eli", "Levi", "Isaiah",
"Landon", "David", "Christian", "Andrew", "Brayden", "John",
"Lincoln"
```

```
)
```

```
rownames(X)= fake_first_names
```

```
X
```

##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]
## Sophia	24.8188165537	9.125269912183	9	0.1587412576615	2	0	
## Emma	20.4783669392	9.071766566485	7	0.0602435882514	1	1	
## Olivia	10.3955264915	2.044677576050	8	0.0032740980079	2	0	
## Ava	17.0358899194	-9.387335558422	12	0.0870577835742	3	0	
## Mia	18.4665636575	7.249305052683	8	0.1052566152019	3	0	
## Isabella	26.0294001579	7.102146213874	8	0.2192423294367	1	0	
## Riley	19.0145055935	-5.004552206956	7	0.0255512944423	1	0	
## Aria	18.9829945699	-5.670656017028	3	0.0445471205749	0	0	
## Zoe	13.3179331057	9.207044662908	4	0.0492995754402	4	0	
## Charlotte	21.2586733803	-6.720953411423	10	0.0893347485971	2	0	
## Lily	17.3233172665	0.582132521085	3	0.0438075131840	2	0	
## Layla	5.3769232856	-3.938631322235	9	0.0797862479830	6	1	
## Amelia	17.8422487543	0.549068548717	6	0.1560836368044	3	0	
## Emily	22.5090258305	-9.544669818133	9	0.1932706553396	1	0	
## Madelyn	15.8065435665	9.147345959209	9	0.2159838074104	6	0	
## Aubrey	20.8890191842	5.368922925554	7	0.1491265917771	4	0	
## Adalyn	18.9774337504	2.257681987248	5	0.0094077724756	1	0	
## Madison	29.8288592111	3.216581572779	7	0.0321831762170	5	1	
## Chloe	18.0531887943	8.626204123721	6	0.0264292595805	3	0	
## Harper	18.6489127493	9.850096073933	10	0.1410369370086	5	0	
## Abigail	8.2384307083	9.529256550595	10	0.0460556852114	2	0	
## Aaliyah	13.6041307153	0.332923405804	4	0.1143838922868	4	0	
## Avery	17.0627948130	-2.354035731405	2	0.2200271067013	1	0	
## Evelyn	6.0862449807	-1.414458742365	3	0.9202939646012	2	0	
## Kaylee	16.4990128941	8.124920721166	8	0.0740213712884	3	0	
## Ella	10.3102766911	-1.312565291300	7	0.2103748704317	3	0	
## Ellie	14.0493368028	6.770187513903	6	0.0665895250431	3	0	
## Scarlett	16.6990505630	0.039154277183	6	0.0060785560765	3	0	
## Arianna	12.1886451100	-9.728737720288	8	0.0061196078991	2	1	
## Hailey	17.6079640679	-2.004134599119	7	0.0514373065800	2	0	
## Nora	15.4907875525	-7.908802591264	4	0.1660171478066	1	0	
## Addison	15.3981545913	6.302860588767	2	0.2781647300829	2	0	
## Brooklyn	21.9605915199	-4.177221646532	6	0.0528851905320	7	0	
## Hannah	4.0427277219	-3.918234785087	2	0.0720552192587	3	0	
## Mila	19.0340054117	7.628355547786	4	0.2067624876803	2	0	
## Leah	25.2192335856	5.464610056952	6	0.0199597800618	2	0	
## Elizabeth	20.1207638699	0.163831887767	7	0.0430961765983	2	0	
## Sarah	7.2350093642	-7.847764990292	8	0.0250318194222	0	0	

## Eliana	17.1539488716	-4.225652767345	4 0.0542586704509	5	1
## Mackenzie	26.6191491883	-1.164651857689	8 0.0427597975876	4	1
## Peyton	17.7257751404	2.691387189552	6 0.3157995285073	2	0
## Maria	20.4263094093	2.852347488515	6 0.1996985586888	0	1
## Grace	10.1386324265	-3.852952290326	5 0.5598845332209	4	1
## Adeline	18.3736175005	-0.760810528882	5 0.0861538963139	5	1
## Elena	21.5271475790	0.826004995033	6 0.0569612405573	1	0
## Anna	18.0329357352	3.672986626625	4 0.1011249145653	1	0
## Victoria	16.8957560672	-4.784092213959	5 0.0053005873103	3	1
## Camilla	14.4630668445	-6.221029893495	5 0.1957675576531	2	0
## Lillian	7.3323418166	-6.464284337126	11 0.0377370483802	3	1
## Natalie	12.0097071958	5.799827864394	4 0.0025403125595	3	0
## Jackson	16.7743459165	-1.563992514275	4 0.0336976001143	6	0
## Aiden	7.9114210738	-8.219139031135	6 0.0781679976064	1	1
## Lucas	9.0356868971	-6.682232180610	8 0.0190018870100	4	0
## Liam	9.9052044557	-6.973871323280	4 0.0508371119231	2	0
## Noah	30.3934039340	5.841336250305	6 0.0501520832897	3	1
## Ethan	29.6491031320	7.816690425389	5 0.1776602499921	3	0
## Mason	17.7741358407	4.083695667796	12 0.1274857251212	3	0
## Caden	13.2109744050	3.461955948733	9 0.0025016970728	4	0
## Oliver	8.6585657710	3.458972177468	5 0.0226663815168	4	0
## Elijah	20.8940682065	-8.561988943256	4 0.1138987566115	2	0
## Grayson	15.3926436127	6.660069464706	7 0.1707437686115	0	0
## Jacob	15.9419799822	3.607416460291	7 0.2968146024753	3	0
## Michael	21.0324688561	3.250835807994	4 0.0777024127463	2	0
## Benjamin	24.7336527710	-1.733850291930	7 0.1165293956957	7	1
## Carter	20.9529828044	-5.881391819566	11 0.1294196595359	6	0
## James	8.1754502408	-2.601587376557	3 0.0627735613638	2	0
## Jayden	20.1167458640	-0.051560751162	3 0.0834983808666	3	0
## Logan	19.6200395997	-7.763788672164	9 0.1582192171332	0	0
## Alexander	22.8723534206	4.898372339085	4 0.1020269875573	1	0
## Caleb	7.0363537875	-7.092755031772	8 0.3986787274627	2	0
## Ryan	10.8077626236	-3.957749395631	5 0.0646797569676	0	1
## Luke	22.9336090938	8.879725565203	4 0.1612990086642	9	0
## Daniel	16.4475104801	4.236748460680	9 0.0179267019288	0	1
## Jack	12.4193912178	-2.978362310678	7 0.0334979790424	2	0
## William	21.7597536904	8.518663188443	5 0.0057624380122	3	1
## Owen	12.7441840106	-5.865928838030	7 0.0416244914652	4	0
## Gabriel	12.6902912892	6.000011260621	1 0.0667182567736	1	0
## Matthew	22.7064883483	-0.784321972169	4 0.0969088271007	2	0
## Connor	16.5579158202	7.310636928305	10 0.0275189429004	2	0
## Jayce	9.3437497119	2.835752279498	2 0.1036041280962	2	1
## Isaac	14.4475985107	-1.807989492081	6 0.0409382751418	3	0
## Sebastian	26.0028823200	8.720412328839	6 0.0526693580776	2	0
## Henry	19.7633459146	-1.778851281852	5 0.0185522190813	5	0
## Muhammad	17.4753564759	7.431445899419	6 0.2173893822057	1	1
## Cameron	17.2356717234	-7.115557421930	8 0.0594253901185	2	0
## Wyatt	21.0591997759	2.385433777235	6 0.0233073925806	4	0
## Dylan	16.3648325832	7.441194783896	11 0.0623564463005	1	0
## Nathan	16.3347652063	4.280693884939	7 0.0566640083885	2	0

## Nicholas	19.2804049042	0.075596682727	8	0.2518919726967	2	1
## Julian	21.9098811596	2.004571580328	5	0.3116668390356	3	0
## Eli	2.4305753450	-2.015974260867	4	0.0434806525397	2	0
## Levi	10.8306731256	7.521508047357	7	0.1240640444013	4	1
## Isaiah	10.5398127717	3.911067624576	6	0.0405466910969	1	1
## Landon	18.1636568093	2.733903387561	9	0.1876239406059	1	0
## David	16.9697711456	2.588588474318	7	0.0656975601903	4	0
## Christian	16.7587209624	0.817433088087	9	0.0850282351750	2	1
## Andrew	22.0496103202	-4.646312841214	11	0.0449011596955	3	0
## Brayden	18.1741344776	7.441352303140	5	0.0875738516110	2	1
## John	28.1813685320	5.178652005270	4	0.1533884150447	3	0
## Lincoln	12.4275615480	-2.145625231788	2	0.2907056238437	1	0

#TO-DO

- Create a data frame of the same data as above except make the binary variable a factor "DOMESTIC" vs "FOREIGN" for 0 and 1 respectively. Use RStudio's View function to ensure this worked as desired.

```
df = data.frame(X)
df$X6= factor(df$X6,levels=c(0,1),labels=c("DOMESTIC","FOREIGN"))
df
```

##		X1	X2	X3	X4	X5	X6
## Sophia	24.8188165537	9.125269912183	9	0.1587412576615	2	DOMESTIC	
## Emma	20.4783669392	9.071766566485	7	0.0602435882514	1	FOREIGN	
## Olivia	10.3955264915	2.044677576050	8	0.0032740980079	2	DOMESTIC	
## Ava	17.0358899194	-9.387335558422	12	0.0870577835742	3	DOMESTIC	
## Mia	18.4665636575	7.249305052683	8	0.1052566152019	3	DOMESTIC	
## Isabella	26.0294001579	7.102146213874	8	0.2192423294367	1	DOMESTIC	
## Riley	19.0145055935	-5.004552206956	7	0.0255512944423	1	DOMESTIC	
## Aria	18.9829945699	-5.670656017028	3	0.0445471205749	0	DOMESTIC	
## Zoe	13.3179331057	9.207044662908	4	0.0492995754402	4	DOMESTIC	
## Charlotte	21.2586733803	-6.720953411423	10	0.0893347485971	2	DOMESTIC	
## Lily	17.3233172665	0.582132521085	3	0.0438075131840	2	DOMESTIC	
## Layla	5.3769232856	-3.938631322235	9	0.0797862479830	6	FOREIGN	
## Amelia	17.8422487543	0.549068548717	6	0.1560836368044	3	DOMESTIC	
## Emily	22.5090258305	-9.544669818133	9	0.1932706553396	1	DOMESTIC	
## Madelyn	15.8065435665	9.147345959209	9	0.2159838074104	6	DOMESTIC	
## Aubrey	20.8890191842	5.368922925554	7	0.1491265917771	4	DOMESTIC	
## Adalyn	18.9774337504	2.257681987248	5	0.0094077724756	1	DOMESTIC	
## Madison	29.8288592111	3.216581572779	7	0.0321831762170	5	FOREIGN	
## Chloe	18.0531887943	8.626204123721	6	0.0264292595805	3	DOMESTIC	
## Harper	18.6489127493	9.850096073933	10	0.1410369370086	5	DOMESTIC	
## Abigail	8.2384307083	9.529256550595	10	0.0460556852114	2	DOMESTIC	
## Aaliyah	13.6041307153	0.332923405804	4	0.1143838922868	4	DOMESTIC	
## Avery	17.0627948130	-2.354035731405	2	0.2200271067013	1	DOMESTIC	
## Evelyn	6.0862449807	-1.414458742365	3	0.9202939646012	2	DOMESTIC	
## Kaylee	16.4990128941	8.124920721166	8	0.0740213712884	3	DOMESTIC	
## Ella	10.3102766911	-1.312565291300	7	0.2103748704317	3	DOMESTIC	
## Ellie	14.0493368028	6.770187513903	6	0.0665895250431	3	DOMESTIC	

## Scarlett	16.6990505630	0.039154277183	6	0.0060785560765	3	DOMESTIC
## Arianna	12.1886451100	-9.728737720288	8	0.0061196078991	2	FOREIGN
## Hailey	17.6079640679	-2.004134599119	7	0.0514373065800	2	DOMESTIC
## Nora	15.4907875525	-7.908802591264	4	0.1660171478066	1	DOMESTIC
## Addison	15.3981545913	6.302860588767	2	0.2781647300829	2	DOMESTIC
## Brooklyn	21.9605915199	-4.177221646532	6	0.0528851905320	7	DOMESTIC
## Hannah	4.0427277219	-3.918234785087	2	0.0720552192587	3	DOMESTIC
## Mila	19.0340054117	7.628355547786	4	0.2067624876803	2	DOMESTIC
## Leah	25.2192335856	5.464610056952	6	0.0199597800618	2	DOMESTIC
## Elizabeth	20.1207638699	0.163831887767	7	0.0430961765983	2	DOMESTIC
## Sarah	7.2350093642	-7.847764990292	8	0.0250318194222	0	DOMESTIC
## Eliana	17.1539488716	-4.225652767345	4	0.0542586704509	5	FOREIGN
## Mackenzie	26.6191491883	-1.164651857689	8	0.0427597975876	4	FOREIGN
## Peyton	17.7257751404	2.691387189552	6	0.3157995285073	2	DOMESTIC
## Maria	20.4263094093	2.852347488515	6	0.1996985586888	0	FOREIGN
## Grace	10.1386324265	-3.852952290326	5	0.5598845332209	4	FOREIGN
## Adeline	18.3736175005	-0.760810528882	5	0.0861538963139	5	FOREIGN
## Elena	21.5271475790	0.826004995033	6	0.0569612405573	1	DOMESTIC
## Anna	18.0329357352	3.672986626625	4	0.1011249145653	1	DOMESTIC
## Victoria	16.8957560672	-4.784092213959	5	0.0053005873103	3	FOREIGN
## Camilla	14.4630668445	-6.221029893495	5	0.1957675576531	2	DOMESTIC
## Lillian	7.3323418166	-6.464284337126	11	0.0377370483802	3	FOREIGN
## Natalie	12.0097071958	5.799827864394	4	0.0025403125595	3	DOMESTIC
## Jackson	16.7743459165	-1.563992514275	4	0.0336976001143	6	DOMESTIC
## Aiden	7.9114210738	-8.219139031135	6	0.0781679976064	1	FOREIGN
## Lucas	9.0356868971	-6.682232180610	8	0.0190018870100	4	DOMESTIC
## Liam	9.9052044557	-6.973871323280	4	0.0508371119231	2	DOMESTIC
## Noah	30.3934039340	5.841336250305	6	0.0501520832897	3	FOREIGN
## Ethan	29.6491031320	7.816690425389	5	0.1776602499921	3	DOMESTIC
## Mason	17.7741358407	4.083695667796	12	0.1274857251212	3	DOMESTIC
## Caden	13.2109744050	3.461955948733	9	0.0025016970728	4	DOMESTIC
## Oliver	8.6585657710	3.458972177468	5	0.0226663815168	4	DOMESTIC
## Elijah	20.8940682065	-8.561988943256	4	0.1138987566115	2	DOMESTIC
## Grayson	15.3926436127	6.660069464706	7	0.1707437686115	0	DOMESTIC
## Jacob	15.9419799822	3.607416460291	7	0.2968146024753	3	DOMESTIC
## Michael	21.0324688561	3.250835807994	4	0.0777024127463	2	DOMESTIC
## Benjamin	24.7336527710	-1.733850291930	7	0.1165293956957	7	FOREIGN
## Carter	20.9529828044	-5.881391819566	11	0.1294196595359	6	DOMESTIC
## James	8.1754502408	-2.601587376557	3	0.0627735613638	2	DOMESTIC
## Jayden	20.1167458640	-0.051560751162	3	0.0834983808666	3	DOMESTIC
## Logan	19.6200395997	-7.763788672164	9	0.1582192171332	0	DOMESTIC
## Alexander	22.8723534206	4.898372339085	4	0.1020269875573	1	DOMESTIC
## Caleb	7.0363537875	-7.092755031772	8	0.3986787274627	2	DOMESTIC
## Ryan	10.8077626236	-3.957749395631	5	0.0646797569676	0	FOREIGN
## Luke	22.9336090938	8.879725565203	4	0.1612990086642	9	DOMESTIC
## Daniel	16.4475104801	4.236748460680	9	0.0179267019288	0	FOREIGN
## Jack	12.4193912178	-2.978362310678	7	0.0334979790424	2	DOMESTIC
## William	21.7597536904	8.518663188443	5	0.0057624380122	3	FOREIGN
## Owen	12.7441840106	-5.865928838030	7	0.0416244914652	4	DOMESTIC
## Gabriel	12.6902912892	6.000011260621	1	0.0667182567736	1	DOMESTIC

```
## Matthew 22.7064883483 -0.784321972169 4 0.0969088271007 2 DOMESTIC
## Connor 16.5579158202 7.310636928305 10 0.0275189429004 2 DOMESTIC
## Jayce 9.3437497119 2.835752279498 2 0.1036041280962 2 FOREIGN
## Isaac 14.4475985107 -1.807989492081 6 0.0409382751418 3 DOMESTIC
## Sebastian 26.0028823200 8.720412328839 6 0.0526693580776 2 DOMESTIC
## Henry 19.7633459146 -1.778851281852 5 0.0185522190813 5 DOMESTIC
## Muhammad 17.4753564759 7.431445899419 6 0.2173893822057 1 FOREIGN
## Cameron 17.2356717234 -7.115557421930 8 0.0594253901185 2 DOMESTIC
## Wyatt 21.0591997759 2.385433777235 6 0.0233073925806 4 DOMESTIC
## Dylan 16.3648325832 7.441194783896 11 0.0623564463005 1 DOMESTIC
## Nathan 16.3347652063 4.280693884939 7 0.0566640083885 2 DOMESTIC
## Nicholas 19.2804049042 0.075596682727 8 0.2518919726967 2 FOREIGN
## Julian 21.9098811596 2.004571580328 5 0.3116668390356 3 DOMESTIC
## Eli 2.4305753450 -2.015974260867 4 0.0434806525397 2 DOMESTIC
## Levi 10.8306731256 7.521508047357 7 0.1240640444013 4 FOREIGN
## Isaiah 10.5398127717 3.911067624576 6 0.0405466910969 1 FOREIGN
## Landon 18.1636568093 2.733903387561 9 0.1876239406059 1 DOMESTIC
## David 16.9697711456 2.588588474318 7 0.0656975601903 4 DOMESTIC
## Christian 16.7587209624 0.817433088087 9 0.0850282351750 2 FOREIGN
## Andrew 22.0496103202 -4.646312841214 11 0.0449011596955 3 DOMESTIC
## Brayden 18.1741344776 7.441352303140 5 0.0875738516110 2 FOREIGN
## John 28.1813685320 5.178652005270 4 0.1533884150447 3 DOMESTIC
## Lincoln 12.4275615480 -2.145625231788 2 0.2907056238437 1 DOMESTIC
```

- Print out a table of the binary variable. Then print out the proportions of “DOMESTIC” vs “FOREIGN”.

```
table(df$X6)
```

```
##
## DOMESTIC FOREIGN
##      76      24
```

```
table(df$X6)/k
```

```
##
## DOMESTIC FOREIGN
##      0.76      0.24
```

Print out a summary of the whole dataframe.

```
summary(df)
```

```
##      X1      X2      X3
## Min.   : 2.4305753 Min.   :-9.72873772 Min.   : 1.00
## 1st Qu.:12.7307108 1st Qu.: -3.92333392 1st Qu.: 4.00
## Median :17.1948103 Median : 0.82171904 Median : 6.00
## Mean   :16.8149175 Mean   : 0.88360575 Mean   : 6.28
## 3rd Qu.:20.5810300 3rd Qu.: 5.81020496 3rd Qu.: 8.00
## Max.   :30.3934039 Max.   : 9.85009607 Max.   :12.00
##      X4      X5      X6
## Min.   :0.0025016971 Min.   :0.00 DOMESTIC:76
```

```
## 1st Qu.:0.0424759711 1st Qu.:2.00 FOREIGN :24
## Median :0.0730382953 Median :2.00
## Mean :0.1123689329 Mean :2.63
## 3rd Qu.:0.1566175319 3rd Qu.:3.00
## Max. :0.9202939646 Max. :9.00
```

- Let $n = 50$. Create a $n \times n$ matrix R of exactly 50% entries 0's, 25% 1's 25% 2's. These values should be in random locations.

```
n=50
R =
matrix(sample(c(rep(0,n^2*0.5),rep(1,n^2*0.25),rep(2,n^2*0.25))),nrow=n,ncol=
n)
R
##      [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
## [1,]    0    0    0    0    0    0    0    0    0    0    0    0    0
## [2,]    0    0    0    0    0    0    0    0    0    0    0    0    0
## [3,]    0    0    0    0    0    0    0    0    1    0    0    0    0
## [4,]    0    0    0    0    0    0    0    0    0    0    0    0    2
## [5,]    0    0    1    0    0    0    0    0    0    0    0    0    0
## [6,]    0    0    0    0    0    0    0    0    0    0    0    0    0
## [7,]    0    0    0    0    0    0    0    0    0    0    0    0    0
## [8,]    0    0    0    0    0    0    0    0    0    0    0    0    0
## [9,]    0    0    0    2    0    0    0    0    0    0    0    0    0
## [10,]   0    0    2    0    0    0    0    0    0    0    0    0    0
## [11,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [12,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [13,]   0    0    0    0    0    2    0    0    0    0    0    0    0
## [14,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [15,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [16,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [17,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [18,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [19,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [20,]   0    0    0    0    0    0    0    0    0    0    0    1    0
## [21,]   0    0    0    0    1    0    0    0    2    0    0    0    0
## [22,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [23,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [24,]   0    0    0    0    2    0    0    0    0    0    0    0    0
## [25,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [26,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [27,]   0    0    2    0    0    0    0    0    0    0    0    0    0
## [28,]   0    0    0    0    0    0    1    0    0    0    0    0    0
## [29,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [30,]   0    0    2    0    0    0    0    0    0    0    0    0    0
## [31,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [32,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [33,]   0    0    0    0    0    0    0    0    0    0    0    0    0
## [34,]   0    0    0    0    0    0    0    0    2    0    0    0    0
## [35,]   0    0    0    0    0    1    0    0    0    0    0    0    0
```

[illegible]

[illegible]

0											
## [17,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [18,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [19,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [20,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [21,]	0	0	0	0	0	1	0	0	0	2	0
0											
## [22,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [23,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [24,]	0	0	0	0	0	2	0	0	0	0	0
0											
## [25,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [26,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [27,]	0	0	0	2	0	0	0	0	0	0	0
0											
## [28,]	0	0	0	0	0	0	0	1	0	0	0
0											
## [29,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [30,]	0	0	0	2	0	0	0	0	0	0	0
0											
## [31,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [32,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [33,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [34,]	0	0	0	0	0	0	0	0	0	2	0
0											
## [35,]	0	0	0	0	0	0	1	0	0	0	0
0											
## [36,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [37,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [38,]	0	0	0	0	0	0	0	0	0	2	0
0											
## [39,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [40,]	0	0	0	0	0	0	0	0	0	0	0
0											
## [41,]	0	0	0	1	0	0	0	0	0	0	0

[illegible]

```

0
## [41,]      0      0      0      0      0      0      0      0      0      0      0      2
0
## [42,]      0      0      0      0      0      0      0      0      0      0      0      0
0
## [43,]      0      0      0      0      0      0      0      0      0      0      0      0
0
## [44,]      0      0      0      0      0      0      0      0      0      0      1      0
0
## [45,]      0      2      0      0      0      0      0      0      0      0      0      0
0
## [46,]      0      0      0      0      0      0      0      0      0      0      0      0
0
## [47,]      0      0      0      0      0      0      0      0      0      0      0      0
1
## [48,]      0      0      0      0      0      2      0      0      0      0      0      0
0
## [49,]      0      0      0      0      0      0      1      0      2      0      0      0
0
## [50,]      0      0      0      0      0      0      0      0      0      0      0      0
0
##           [,50]
## [1,]      0
## [2,]      2
## [3,]      0
## [4,]      0
## [5,]      0
## [6,]      0
## [7,]      0
## [8,]      0
## [9,]      0
## [10,]     0
## [11,]     0
## [12,]     0
## [13,]     0
## [14,]     0
## [15,]     0
## [16,]     0
## [17,]     0
## [18,]     0
## [19,]     0
## [20,]     0
## [21,]     0
## [22,]     1
## [23,]     0
## [24,]     0
## [25,]     0
## [26,]     0
## [27,]     0
## [28,]     0

```

```
## [29,] 0
## [30,] 1
## [31,] 0
## [32,] 0
## [33,] 0
## [34,] 0
## [35,] 0
## [36,] 0
## [37,] 0
## [38,] 0
## [39,] 0
## [40,] 0
## [41,] 0
## [42,] 1
## [43,] 0
## [44,] 0
## [45,] 0
## [46,] 0
## [47,] 0
## [48,] 0
## [49,] 0
## [50,] 0
```

- Randomly punch holes (i.e. NA) values in this matrix so that an each entry is missing with probability 30%.

```
n = 100
R = matrix(rnorm(n^2), nrow = n, ncol = n)
for (i in 1 : n){
  for (j in 1 : n){
    if (runif(1) < 0.3){
      R[i,j] = NA
    }
  }
}
```

R

```
##           [,1]           [,2]           [,3]           [,4]
## [1,]  1.0835926630003  1.314004253229 -0.575114433555  0.0903335498291
## [2,] -2.4962696937714 -0.984084423426 -0.632150651064 -0.7146394144521
## [3,]  1.2002367224902           NA -0.653894576970 -0.6416596271874
## [4,] -1.5447166717594  0.613363631609  0.358025423055  0.6007975842126
## [5,] -0.3363618741184 -0.170933779359 -0.393339340391  0.1261440055630
## [6,]  1.4615727826931  0.520174277380           NA  0.0645284754135
## [7,]           NA           NA  0.080234517006 -0.7662738396198
## [8,] -0.1543425003881 -0.428272651317 -0.240190629995  0.4526649766466
## [9,] -0.7545065657307 -1.419892412247           NA           NA
## [10,]           NA           NA  0.245339632768 -1.4917334797483
## [11,] -0.2938184979744 -0.162700802188  2.453013524134  1.7405511437202
## [12,]  1.4901999514499 -2.164251862141 -0.643657024572 -1.6251062005731
```

##	[13,]	0.1243450404831	-1.296394429723	-0.027542133566	NA
##	[14,]	-0.4142795484569	NA	0.616399044793	0.0020547402141
##	[15,]	-0.7249516054401	-1.231807885528	0.253558679920	0.2245746808783
##	[16,]	-0.1011434294252	-0.437247022298	0.609000391516	2.3380705439855
##	[17,]	NA	NA	1.433829819154	NA
##	[18,]	0.6263818133794	1.528299754139	-0.784631692310	0.9717858325529
##	[19,]	0.0512620221207	-0.015918805288	-0.682999975693	-1.5194973943860
##	[20,]	NA	NA	-0.715994262086	-0.7348964440136
##	[21,]	0.6780591314351	NA	1.319424636344	0.4593820870744
##	[22,]	NA	-1.769110593108	-1.163212290283	-0.9765744737120
##	[23,]	-0.0426529294205	-1.011564804017	1.723919276320	-2.0626309362233
##	[24,]	0.6611793515421	NA	NA	NA
##	[25,]	-0.4322692920496	NA	NA	NA
##	[26,]	-0.9438794177343	-0.372888668944	0.118211344716	1.0943087923103
##	[27,]	0.0033887277411	0.328788877485	-0.861919811098	-0.2478997499247
##	[28,]	0.9931239775192	NA	-0.750594591903	0.0994355820550
##	[29,]	0.0830458353420	NA	NA	1.2277324218809
##	[30,]	-0.6383886653303	0.106150740225	-0.985504706206	1.1763571673982
##	[31,]	-0.3361619713725	0.282293634627	0.559185990535	1.4182048041800
##	[32,]	1.2866035262435	-2.048391630622	NA	-0.2872799487379
##	[33,]	1.1913665358635	NA	-0.098658888683	0.2481572805275
##	[34,]	NA	NA	-0.096470653981	-0.8851766260556
##	[35,]	NA	NA	NA	NA
##	[36,]	NA	-0.652186136741	-0.554134576657	NA
##	[37,]	-1.3374821363842	NA	1.014359390620	1.5648468731772
##	[38,]	0.8781133247048	NA	0.925851184020	NA
##	[39,]	NA	NA	0.579646551337	0.5850340231345
##	[40,]	1.6484117431721	0.282341020133	-0.013086345597	NA
##	[41,]	NA	0.983265460444	NA	-1.3124958812488
##	[42,]	-0.2024106935939	0.549345732504	NA	-2.1530918556740
##	[43,]	0.3205643769663	-1.366548010141	-0.329300345305	NA
##	[44,]	NA	-0.213139620218	0.233056993470	-0.1955723240653
##	[45,]	1.1027529230767	NA	-0.186238840510	-0.1183274772490
##	[46,]	1.9713836798394	NA	-1.706358244027	NA
##	[47,]	0.9299615861334	0.646468215887	-0.356188844295	0.4585348253036
##	[48,]	-1.9185708759409	NA	NA	0.1748343716236
##	[49,]	NA	0.540331480219	-1.349568529076	-0.5216265913928
##	[50,]	-0.3927485331598	NA	-0.592916075516	-1.2605485344288
##	[51,]	NA	-1.803060082265	-0.879277945744	-0.9838707019013
##	[52,]	NA	1.603377386704	2.275639562960	-0.6218438280020
##	[53,]	NA	0.837737869248	-0.497151914378	NA
##	[54,]	NA	0.035526013545	NA	0.8898269751809
##	[55,]	0.0211360524192	0.674149350806	NA	0.8189743854791
##	[56,]	-1.2119891400447	NA	NA	NA
##	[57,]	NA	-2.309480080273	1.288854775426	-1.3864263035856
##	[58,]	0.2824680794507	NA	NA	0.7089975591870
##	[59,]	NA	-0.098258054474	NA	NA
##	[60,]	1.4528873705055	0.366327488717	NA	0.6011196731667
##	[61,]	1.1978146655416	-0.334282600760	-0.098623083129	1.2056156139656
##	[62,]	0.4337053949532	-1.465655380691	0.345154015182	1.7764714942142

##	[63,]	-0.2147106815798	-0.893946026385	0.670219285022	0.6213907015685
##	[64,]	NA	0.918387088005	NA	NA
##	[65,]	-0.5172287920297	2.685570236402	0.039388449558	-0.4278300555666
##	[66,]	NA	-2.045085809815	-2.275733526888	NA
##	[67,]	-0.7378150123842	NA	1.028626123871	NA
##	[68,]	-0.9572763135799	0.371804153958	NA	-0.2650059403585
##	[69,]	NA	-0.941802326851	2.229019552384	-0.3361399998328
##	[70,]	NA	NA	NA	0.5508792174829
##	[71,]	-1.6280955312273	NA	-1.620755651694	0.9340579918886
##	[72,]	NA	-0.326624985432	-0.324275972016	-0.5164385122766
##	[73,]	0.5871787122591	NA	NA	-1.8506871667113
##	[74,]	0.5630896912249	NA	NA	2.5168093763557
##	[75,]	0.4748596588300	0.939384100936	1.364440781115	NA
##	[76,]	NA	1.178594293438	-0.525083961512	NA
##	[77,]	0.0843693471663	-0.011746560985	NA	-0.9845110713071
##	[78,]	0.3247910180274	NA	-0.730131415174	-0.1707248812674
##	[79,]	NA	NA	NA	0.5654001925468
##	[80,]	NA	0.864391421584	2.990829005613	0.2641195871643
##	[81,]	NA	-0.755550218837	NA	NA
##	[82,]	0.2094826726098	NA	-0.680889395170	-0.1815224114296
##	[83,]	1.4454844105028	-0.353248527725	-0.623074325166	-0.9102129449082
##	[84,]	-0.0367619844562	NA	-0.706537484490	2.3839642379569
##	[85,]	0.0967079078226	-0.983192731211	-2.168966320796	-0.7628143545837
##	[86,]	NA	1.385352735571	0.622230486624	NA
##	[87,]	NA	-1.290908487129	-1.244594249540	-0.7528373518956
##	[88,]	-0.3060299371511	NA	0.314635652118	NA
##	[89,]	-0.5399771132941	0.403224603867	NA	-0.4553527318424
##	[90,]	-0.1381158205008	2.127391664069	0.384726533129	1.0915166950165
##	[91,]	0.6306378638390	-0.230715597879	-0.580422174701	1.3826059937640
##	[92,]	NA	-0.351872358047	-0.591489246038	-1.0894622777878
##	[93,]	NA	0.136463164238	-1.106693714407	NA
##	[94,]	-0.3086529005993	NA	NA	-1.2220220327457
##	[95,]	NA	-1.040357307551	1.260875482213	-0.1180250179796
##	[96,]	-0.2806237725337	-0.506550295958	NA	-0.4495315299133
##	[97,]	NA	NA	0.150455203363	NA
##	[98,]	-0.7999288975141	NA	0.418342767135	NA
##	[99,]	0.6575475231802	0.723698188585	0.507239608472	0.1717329825639
##	[100,]	-1.2124781509995	-0.261923631015	0.476651374665	0.0399174197886
##		[,5]	[,6]	[,7]	[,8]
##	[1,]	-1.4307781529872	0.3274163444336	1.4848617228315	NA
##	[2,]	0.6633000579074	1.4179354674510	NA	NA
##	[3,]	-0.5519920594947	-0.8825176388887	NA	0.592562486164
##	[4,]	-0.3753301965462	1.5783995631695	1.1539360032983	NA
##	[5,]	0.7705610358586	NA	-0.1590655149255	NA
##	[6,]	0.4953887208646	-0.8734100677085	-0.7193167558393	-0.468383208416
##	[7,]	NA	-0.0038489314604	NA	NA
##	[8,]	NA	NA	0.8300691752252	NA
##	[9,]	NA	-0.1652761299780	NA	NA
##	[10,]	0.7150068043195	-0.4857021261537	1.5412850847069	-0.531865511991
##	[11,]	NA	-1.7554665970245	0.5684992459729	NA

##	[12,]	NA	NA	NA	NA
##	[13,]	1.2941786682357	-0.6521075917131	-0.4097309182423	2.478788335838
##	[14,]	-0.6448800679701	0.5034517050406	NA	-1.313411474310
##	[15,]	1.0480286593073	0.3376623214817	NA	-0.601916608703
##	[16,]	-0.3990554143209	NA	NA	-0.660808854435
##	[17,]	0.3164017333701	-1.2246224785744	-0.7258696029095	2.042071595685
##	[18,]	-0.9868548537907	-1.3874639633349	NA	0.249216713238
##	[19,]	0.2446262922849	NA	0.0157554207000	1.309156845652
##	[20,]	1.3687290940711	-0.8723769269450	-0.0097473092453	-0.443154657670
##	[21,]	-1.0272585403399	NA	-1.1397860851322	-0.354588763785
##	[22,]	2.1187180157360	NA	2.9846531466519	-0.211696183566
##	[23,]	1.7591524849745	-0.4127903069950	1.6520680333371	-1.044281118002
##	[24,]	NA	NA	NA	NA
##	[25,]	-0.1569410489561	NA	1.4623345263534	NA
##	[26,]	0.1358251765188	NA	NA	1.466182677149
##	[27,]	1.0076888657579	0.4411110111624	0.9797406699267	0.144069654158
##	[28,]	0.6177549987514	-0.9272486172107	NA	NA
##	[29,]	-1.1546797608730	NA	-1.7436475194736	NA
##	[30,]	0.1953719379762	NA	-1.4220611254008	0.249334215358
##	[31,]	NA	NA	-1.6144863349158	NA
##	[32,]	-1.3339413928880	1.3820695560032	0.3530660097787	0.204530508714
##	[33,]	1.7505421092338	-0.1961333745399	0.0741404338925	0.060583635244
##	[34,]	0.3660058637066	NA	-1.8128728321083	NA
##	[35,]	NA	NA	NA	NA
##	[36,]	1.4480725774998	0.5299215226675	1.0199872990085	NA
##	[37,]	-1.1156294193801	-0.7850924453149	0.1054174989591	NA
##	[38,]	NA	NA	NA	0.745113206248
##	[39,]	-1.0046094295569	0.2726020655129	0.4036941767798	NA
##	[40,]	NA	-0.9345668086107	NA	0.289974476909
##	[41,]	NA	NA	2.0866366534865	NA
##	[42,]	-0.0246896345877	0.2745645709781	0.2770373878366	0.258242310842
##	[43,]	-1.4849305684118	1.9047809268529	-0.2623567844719	0.688899372594
##	[44,]	0.7392383785238	-0.5862726678076	NA	-1.195092293260
##	[45,]	NA	NA	2.5029586952059	-0.474907296183
##	[46,]	NA	NA	-0.3112171353336	0.470725135516
##	[47,]	0.7868907664001	NA	-0.6734978240089	NA
##	[48,]	-1.8653940545855	-1.2678042495275	-0.8122943768094	-0.888636639578
##	[49,]	NA	0.3153074146350	NA	-0.492091614640
##	[50,]	NA	-0.1374784814985	NA	-1.561259508672
##	[51,]	0.0800297130847	-0.8001757464797	-0.0413511878479	NA
##	[52,]	-0.5913050434916	1.3192068826452	0.3542005472030	NA
##	[53,]	NA	NA	-1.5062092349310	-0.045932221826
##	[54,]	-0.2993396323607	-0.2397539816779	0.3314377891946	-1.819654670389
##	[55,]	1.2452936394457	-0.9539609652628	NA	0.516044635774
##	[56,]	-0.7630670708040	0.7388730873590	1.4273580243098	NA
##	[57,]	NA	NA	-0.0453998589566	-0.937462659446
##	[58,]	NA	-1.2867204071235	0.4094272744744	NA
##	[59,]	0.1630706705515	-1.0075035402212	-0.0157876188114	-0.072904157156
##	[60,]	-1.3947175547760	-1.9661115056527	1.5055328944932	NA
##	[61,]	0.6288234339950	-0.8976613998979	1.5520790079246	0.953845632959

##	[62,]	-1.1900101717940	0.8951562534673	0.5511402398713	NA
##	[63,]	-0.1221070097082	NA	-1.6046138258753	0.377834428531
##	[64,]	NA	NA	0.2841570590521	-0.776979649920
##	[65,]	-0.0597487884360	0.5013766505171	-2.1335335797178	0.433675037630
##	[66,]	NA	0.6509256596892	-1.8720674622450	-0.902356647417
##	[67,]	0.0012585719216	NA	NA	0.564852613521
##	[68,]	NA	1.7121015007150	-0.2987707705214	0.010240473557
##	[69,]	-0.4482923904513	NA	1.3086400925207	NA
##	[70,]	-0.7151128556734	NA	NA	NA
##	[71,]	NA	-0.8452354506553	-0.1152451597785	NA
##	[72,]	NA	-0.7842259466298	NA	NA
##	[73,]	0.3948029728297	0.1828447087691	NA	-0.319889735843
##	[74,]	0.1466554906918	1.2683253717684	0.0270201346631	-0.293484156897
##	[75,]	-0.9775293344304	-1.6727002678260	-1.5174265748805	-0.057066408480
##	[76,]	1.6351060456298	-0.2703265940161	NA	0.730644125785
##	[77,]	-2.8480800086993	0.1035779247185	NA	0.987968608921
##	[78,]	NA	-2.0657427753419	0.2139775707540	NA
##	[79,]	1.6332381185221	-1.6881531487164	NA	NA
##	[80,]	0.1556175167733	NA	1.2184258868422	-0.478665373424
##	[81,]	0.4349675237808	0.1769816419909	0.2315393999767	-0.240002442805
##	[82,]	NA	0.4017231640750	-1.5163715597468	NA
##	[83,]	NA	NA	NA	NA
##	[84,]	-0.8373810265163	1.7177241775699	NA	0.090516188599
##	[85,]	0.3186708174387	-0.3964094247758	NA	-1.042219445321
##	[86,]	NA	-1.6448414374411	0.8046730626649	NA
##	[87,]	-0.7054969492017	-0.0620671690154	NA	NA
##	[88,]	-1.5655235162876	NA	NA	-0.166133838850
##	[89,]	NA	-0.1848420260362	NA	NA
##	[90,]	NA	1.0195784513916	-0.3274519827052	NA
##	[91,]	-0.1790865582640	NA	NA	-0.758560249732
##	[92,]	NA	NA	0.6723811736680	1.488668810099
##	[93,]	-0.6060585117723	0.1287015738143	0.8709312466766	-0.627265246266
##	[94,]	NA	NA	-0.3485952284689	-1.224293091429
##	[95,]	-0.8047438808454	-0.8169741976497	0.3522235621736	NA
##	[96,]	NA	0.9341747221193	-0.3317681681148	NA
##	[97,]	-2.2154689870338	-2.2670488212155	1.8141882347753	NA
##	[98,]	NA	1.3610334850559	NA	-0.805670578859
##	[99,]	-0.8130232957097	0.3073340383546	1.5260157384969	NA
##	[100,]	NA	0.4297138293936	-0.3316019841669	NA
##		[,9]	[,10]	[,11]	[,12]
##	[1,]	1.538799567692	0.1155887924022	0.433987977061	NA
##	[2,]	NA	NA	0.334460369117	1.052519776887
##	[3,]	1.268963476486	0.1501950606233	NA	-0.877837635760
##	[4,]	0.223596442155	NA	-0.399344687257	-0.200141621627
##	[5,]	0.027514099120	-1.1652107324896	NA	-0.078897536604
##	[6,]	1.934894928883	1.2372479562266	NA	0.366004368023
##	[7,]	-1.057318806235	-0.4075166583328	NA	NA
##	[8,]	-0.529388576050	0.0505419868713	0.152128353522	NA
##	[9,]	0.176125416017	0.8566341185591	1.009251715478	NA
##	[10,]	0.035326193375	-0.6810991099503	-0.029150143766	-0.070411515917

##	[11,]	-0.594301021309	NA	-0.099630522582	-1.720177843518
##	[12,]	0.700940072638	NA	NA	0.544573970985
##	[13,]	-0.817712328359	-1.5448849320580	-0.484079889052	-1.253020675432
##	[14,]	1.235204918421	NA	NA	0.890153926812
##	[15,]	NA	-0.4636225606896	NA	1.173062398183
##	[16,]	NA	-0.5443320845416	NA	0.005516370420
##	[17,]	NA	NA	1.091379582243	NA
##	[18,]	-1.048033282405	0.0354943293995	-0.463102314423	-1.102736113708
##	[19,]	NA	0.3534241984046	-0.065996095115	1.722482948843
##	[20,]	NA	NA	-0.657596048990	1.221178919239
##	[21,]	-0.530097722462	-1.1621165319217	NA	NA
##	[22,]	-0.856843768257	0.5536451082769	NA	0.689630149119
##	[23,]	-1.885175785901	NA	-1.241934156551	NA
##	[24,]	NA	1.0738152615821	NA	0.717384061079
##	[25,]	-0.662793511337	0.7735707511988	-0.122414628435	1.017215378916
##	[26,]	-0.188193272735	NA	NA	0.441992590378
##	[27,]	-1.577727464186	0.2743253908748	-0.586050920439	0.399006686857
##	[28,]	-0.058201615291	-2.6894343584471	-2.189041898110	-2.363263686856
##	[29,]	NA	0.5374951489325	-1.175210564546	NA
##	[30,]	1.871315635924	-1.6718293401696	NA	0.845818321898
##	[31,]	-0.278507027026	NA	-1.833052964887	NA
##	[32,]	-0.112414565574	NA	0.073230819567	NA
##	[33,]	NA	-0.7240165676924	0.079139321198	NA
##	[34,]	-0.814570138979	1.7196918446844	NA	0.839148619675
##	[35,]	NA	0.9503438155590	NA	-0.054031106242
##	[36,]	-0.700151350997	NA	0.662606309076	0.554994553821
##	[37,]	1.758750605372	NA	NA	-2.984248501568
##	[38,]	NA	NA	0.564260718951	-1.553446489616
##	[39,]	NA	0.3011419085423	NA	-0.668782117109
##	[40,]	1.155085928309	1.3013843993501	2.308873728620	NA
##	[41,]	0.883368762684	-0.4581857699735	NA	NA
##	[42,]	-0.085921062112	1.8190993523638	1.351006974458	0.826396395047
##	[43,]	0.882881769521	-0.5813968970056	-0.203200194133	NA
##	[44,]	NA	NA	0.146324401857	-0.624917767044
##	[45,]	2.386093902292	NA	NA	NA
##	[46,]	NA	NA	NA	NA
##	[47,]	0.771290510744	-0.1344657030732	0.355187068991	0.379594887326
##	[48,]	-0.917506957502	0.4072146156721	NA	NA
##	[49,]	-0.219287644691	-0.2651297392769	-0.595245812931	NA
##	[50,]	1.021093541120	NA	1.245105708087	NA
##	[51,]	-0.533688162141	NA	NA	0.219723322027
##	[52,]	0.040384646482	-1.5693185169414	NA	NA
##	[53,]	-0.843471936452	0.0973419346074	0.161978784272	2.151242573850
##	[54,]	0.784102565074	0.4799735962627	-0.037818198303	-0.079368158629
##	[55,]	NA	1.6008657067603	-0.210484640743	-1.497117085936
##	[56,]	-0.540964924218	0.1495218193390	0.134290370495	NA
##	[57,]	-1.284679956084	-0.9163109696112	NA	1.319058812727
##	[58,]	NA	1.4448689636893	-0.770701098684	NA
##	[59,]	-1.216884881687	-0.0987879891418	-1.063175901884	NA
##	[60,]	-0.218319778793	-0.9871810871844	NA	0.017311402164

##	[61,]	2.095055468592	NA	NA	0.742186579937
##	[62,]	-0.588443910880	NA	NA	0.642999742623
##	[63,]	-1.100106710784	-0.0097517708978	0.347762922012	NA
##	[64,]	NA	NA	1.362498602587	-0.651343157879
##	[65,]	-0.886639475784	NA	-0.079225250622	0.218217750656
##	[66,]	0.362536686925	NA	-2.184071489977	NA
##	[67,]	0.912711628874	NA	-0.237468823676	2.332080684674
##	[68,]	-0.307996925935	-0.6237988865770	0.662440465624	0.387710667033
##	[69,]	0.176605371067	NA	-0.987889402759	-1.647936170044
##	[70,]	NA	-0.0633407408816	NA	0.340196362606
##	[71,]	NA	-1.0239136218394	1.611468953163	-0.247808659318
##	[72,]	-1.445893248907	-0.9492228154297	NA	NA
##	[73,]	-0.349654194870	NA	NA	1.605519727237
##	[74,]	-0.550822762970	-0.6889800424990	-0.562859162975	-0.561444228904
##	[75,]	NA	NA	-0.810317400589	0.149978574719
##	[76,]	1.048931680107	1.2003114505993	NA	-0.495975084390
##	[77,]	0.942141905469	NA	-1.969108760650	-1.786870507692
##	[78,]	-1.108599939074	NA	-0.229390314713	-0.668117051147
##	[79,]	NA	-0.7298254442679	NA	NA
##	[80,]	NA	0.2833344852575	NA	-0.925246505928
##	[81,]	-0.770381880591	1.2719173578672	0.443897426040	0.468014245923
##	[82,]	1.019802540263	-0.9369281677536	0.048796730812	1.065831886642
##	[83,]	NA	0.0733011433020	1.505322191693	NA
##	[84,]	-0.063453864923	-0.1671024998457	-1.979624180373	0.041005560814
##	[85,]	0.590638410959	0.3346786604535	-0.302479882523	0.452914848204
##	[86,]	-0.821685892872	NA	NA	-1.147383198760
##	[87,]	0.362002226508	1.0022177374709	0.310865241650	-0.960974041485
##	[88,]	-0.444694846382	0.2372843842805	NA	1.418241750746
##	[89,]	-3.303434235977	-1.0599744139594	0.853041152322	NA
##	[90,]	NA	NA	0.963250945797	NA
##	[91,]	NA	-0.4971319418939	NA	-0.217888393522
##	[92,]	-0.359427165491	0.6496569426033	0.916691076574	0.137988374777
##	[93,]	NA	-0.2016803061150	0.762103997334	1.702592107693
##	[94,]	NA	-0.0221858733309	NA	NA
##	[95,]	0.157238562240	NA	-1.434888427308	-0.144414939456
##	[96,]	NA	0.5875140368328	NA	-0.622632959526
##	[97,]	NA	1.3381042065828	-1.495532029902	NA
##	[98,]	0.019110464242	NA	NA	0.687037074036
##	[99,]	-0.684658616815	0.0530629929220	0.294104916049	-0.683422344245
##	[100,]	-0.254698655757	-1.7913859175465	-0.908645003829	-0.521227390577
##		[,13]	[,14]	[,15]	[,16]
##	[1,]	NA	-0.788465978437	0.1865710854342	1.085805331804
##	[2,]	-0.735346077849	-0.843931388469	NA	-1.231102299844
##	[3,]	-0.610748708143	NA	-0.4905429577547	-0.293486745293
##	[4,]	NA	NA	NA	1.412287677605
##	[5,]	-0.872532589579	NA	1.1261232799702	0.342939303759
##	[6,]	0.426489724339	NA	NA	1.224790506845
##	[7,]	NA	-0.851209648937	1.0891006029815	1.047637497891
##	[8,]	NA	NA	0.8357337471828	-0.010491124531
##	[9,]	NA	-0.656900939825	NA	NA

##	[10,]	0.529683764401	NA	NA	NA
##	[11,]	-0.134495644568	0.344029365346	0.2317794494634	NA
##	[12,]	NA	2.158411490444	NA	-0.881481273570
##	[13,]	NA	NA	NA	1.296533533165
##	[14,]	-1.029454555771	0.663561676341	-0.5328388191052	NA
##	[15,]	0.661169358074	-1.365048440255	NA	NA
##	[16,]	1.024109204693	1.479797865260	-0.1528129873532	0.939430687946
##	[17,]	1.787801235111	-0.350887709371	-0.3071760825798	0.083193194146
##	[18,]	-0.396707573694	NA	-0.7541817723399	1.616786242355
##	[19,]	NA	0.664645008789	NA	1.199174850528
##	[20,]	-0.717678764486	NA	0.5176265996605	NA
##	[21,]	-1.503807578453	0.166279584758	0.2841528260436	NA
##	[22,]	0.670984241486	NA	0.4429548028254	-1.125564752031
##	[23,]	NA	-0.127174769922	0.0608759130104	-1.228891165832
##	[24,]	NA	-0.873194687663	-1.1487377353903	NA
##	[25,]	1.015998744076	NA	-0.2425212001781	NA
##	[26,]	0.294897709680	1.122849315574	NA	NA
##	[27,]	-0.074597490319	-0.118543531035	-0.3057662213184	1.065342214463
##	[28,]	-1.522680446082	-1.399410377378	NA	-1.366236091607
##	[29,]	NA	-0.196876385024	NA	-0.948170049679
##	[30,]	1.366112344311	NA	-0.2968816740396	-0.241286113895
##	[31,]	-0.170812317103	-0.343256989494	NA	0.511326894614
##	[32,]	1.244541078929	-0.380730637917	0.9528470370357	NA
##	[33,]	-0.067311809836	-1.543745272456	0.1145467670986	0.279076657768
##	[34,]	-0.823158482528	0.257217547554	0.8796670705241	NA
##	[35,]	NA	0.216244325816	0.6415805523597	0.476845709430
##	[36,]	0.435994303134	NA	NA	-0.372951751134
##	[37,]	0.479816354493	0.657010462528	NA	1.668653517012
##	[38,]	-1.121108101438	-0.400866898631	NA	0.675900117307
##	[39,]	0.925358669013	-0.041211076604	NA	0.541445770119
##	[40,]	NA	-0.782683320911	-0.2170528149502	-0.786567440696
##	[41,]	0.678983259291	-0.758109919710	-0.6333539841300	-1.106096919198
##	[42,]	-1.154161166412	NA	-0.3949684138856	0.788347810326
##	[43,]	NA	-0.453278320902	NA	-0.217029994817
##	[44,]	1.958654332008	0.595624165777	0.8951222669791	1.139036612778
##	[45,]	NA	NA	NA	NA
##	[46,]	NA	-0.841997355882	NA	NA
##	[47,]	-0.751272628105	-1.132345498528	NA	-0.531559447288
##	[48,]	NA	-1.110094509210	-0.2870160506986	0.990501912515
##	[49,]	NA	NA	NA	1.070498803907
##	[50,]	NA	NA	NA	-1.279415834902
##	[51,]	-0.900920939816	-0.531307058803	NA	NA
##	[52,]	-1.781104681036	NA	NA	NA
##	[53,]	-1.122602872472	1.985440262879	0.9397111236827	1.428671374036
##	[54,]	-0.394524494009	-0.295015889270	0.9963134969053	2.117912141096
##	[55,]	-0.559964559512	-1.442081520619	0.0249197093639	0.308808688192
##	[56,]	NA	-0.858567885135	NA	0.357642222217
##	[57,]	NA	NA	NA	NA
##	[58,]	NA	-0.196000072252	0.0893342017411	NA
##	[59,]	0.279554997231	0.331037832372	-0.0014542959208	-2.380990786404

##	[60,]	NA	NA	NA	1.398763919290
##	[61,]	0.597028620092	NA	NA	NA
##	[62,]	0.900990226440	-0.903715640100	-0.5936977671379	-0.274571441022
##	[63,]	-0.851344988327	NA	NA	-0.781658606001
##	[64,]	0.814624651949	-1.884085137044	0.1680337448390	1.021533948405
##	[65,]	NA	NA	-0.2286368638416	NA
##	[66,]	NA	0.942155061996	0.0932670474196	NA
##	[67,]	NA	1.999975954554	NA	NA
##	[68,]	0.100133662567	-1.105223206587	-0.3750421340508	-0.332621663947
##	[69,]	NA	0.764466301148	-0.5822573658099	NA
##	[70,]	-0.179401654343	NA	0.4891593522607	-0.529360125879
##	[71,]	0.607601909724	1.921027244052	0.3939873226386	0.020996692249
##	[72,]	0.078348202216	0.337117237390	NA	NA
##	[73,]	0.429546856402	NA	NA	-1.003448732715
##	[74,]	NA	0.358815008601	NA	0.694386651350
##	[75,]	0.692831036525	1.429982079801	-0.7635647255529	NA
##	[76,]	-1.113614512826	-0.325409328390	0.3333880903478	NA
##	[77,]	-1.338623996715	0.911386007862	-0.0757428430188	0.470914858998
##	[78,]	NA	1.211136410459	-2.4260411225210	NA
##	[79,]	-0.240829217361	0.370582398980	NA	0.759868700246
##	[80,]	-0.747571176875	1.242953599587	NA	-1.039005895132
##	[81,]	NA	0.337666305107	0.5926642362688	-0.123264395380
##	[82,]	-0.296193632705	-0.964384060865	-1.0031146617011	NA
##	[83,]	-0.092895743872	-0.217686692624	-0.2385985893322	NA
##	[84,]	-0.769297356794	-0.779761758323	-1.4797941785175	-0.534633947809
##	[85,]	0.886764219116	NA	NA	0.162647983594
##	[86,]	-1.688691254723	-0.230798125213	-0.7552866882132	0.093812731932
##	[87,]	NA	-0.209233654397	2.4897698980224	NA
##	[88,]	NA	NA	NA	NA
##	[89,]	NA	-1.752704195043	0.5764933075616	-0.405258711135
##	[90,]	NA	-0.348675426371	-0.6364641019845	0.501767267095
##	[91,]	NA	0.087791610832	-1.4562674790724	NA
##	[92,]	-2.423111702466	NA	NA	0.131560810094
##	[93,]	NA	NA	1.5086695791466	NA
##	[94,]	NA	-0.176849732541	2.2363168277838	NA
##	[95,]	0.395653241929	NA	-0.0543835170146	0.866950333655
##	[96,]	NA	-0.073811520606	0.9361464692332	NA
##	[97,]	0.797671449208	NA	NA	0.982522327411
##	[98,]	-0.400996484807	-0.720252119993	1.0126350588592	NA
##	[99,]	-0.262946541281	NA	-0.0645454398193	-1.424853598386
##	[100,]	NA	-0.894740424171	0.9756490289230	NA
##		[,17]	[,18]	[,19]	[,20]
##	[1,]	0.543372669018	0.3317170393992	NA	-0.39184632321313
##	[2,]	NA	NA	-0.134030762762	NA
##	[3,]	NA	NA	0.431749779796	-0.17773022263468
##	[4,]	-0.520283943959	-1.0359247300938	1.237588669323	-0.17077177067653
##	[5,]	-0.313051392582	NA	NA	1.73075075427048
##	[6,]	NA	1.4921710413665	0.208404257735	-2.25773331517125
##	[7,]	NA	1.7723223762245	-0.416964234530	0.49173798380695
##	[8,]	0.742321849004	0.8046127518730	NA	0.33098577326394

##	[9,]	-0.072596864149	NA	-0.825928459361	NA
##	[10,]	1.787251065488	0.3007953631853	0.561364679967	-0.45627966247395
##	[11,]	0.676811525576	-0.8924324791966	-0.224869372047	NA
##	[12,]	-1.253530677457	-0.2460404449748	-0.359395575507	1.89940335086995
##	[13,]	NA	NA	2.118659604465	NA
##	[14,]	0.539991418133	1.6550580783088	1.505399011604	NA
##	[15,]	-0.318589593876	NA	1.212793501556	0.74839992862939
##	[16,]	-0.949904301376	1.4731783854636	2.347457927866	-0.24026106325645
##	[17,]	-0.052567240305	1.2003580527939	NA	1.66145891292359
##	[18,]	-1.044156753223	NA	0.943007206111	-0.10190959742189
##	[19,]	1.226290066624	-0.7330137087448	NA	2.01346529256207
##	[20,]	-0.707257892813	0.2526348335039	NA	-0.01070110859429
##	[21,]	0.337144223821	-0.6926027138454	-1.869455192661	-0.59806285224664
##	[22,]	0.344016409457	NA	0.780354943013	NA
##	[23,]	0.435073740337	0.1968994399395	-0.175553786161	NA
##	[24,]	-1.087219963568	0.2994592658209	-2.154116460185	NA
##	[25,]	0.143003450671	0.0694462247051	NA	NA
##	[26,]	0.759160751046	-0.2036142850441	-0.217758447302	NA
##	[27,]	0.742238147166	NA	-1.746563492097	NA
##	[28,]	-1.758029728093	0.9421767442882	NA	NA
##	[29,]	-0.019274950016	-0.8168051682031	0.045420920921	-1.12755719414793
##	[30,]	NA	1.0104744278382	NA	-0.24475224258049
##	[31,]	NA	-0.8528698113751	-0.021801826961	NA
##	[32,]	NA	-2.0695059393623	NA	-0.60569129209022
##	[33,]	NA	-1.1230298115054	0.276293720298	NA
##	[34,]	0.443258738693	NA	0.186558690701	0.25564078395382
##	[35,]	-1.558725873350	NA	NA	NA
##	[36,]	NA	-1.1762312885543	-0.821066506687	NA
##	[37,]	-0.964571336312	0.4249178123655	0.144277756002	2.26446128029331
##	[38,]	NA	0.3694288060501	-0.571157030015	0.36777939034789
##	[39,]	0.136150945865	-0.0530123131129	-0.449655269237	0.97805827686820
##	[40,]	0.026492881605	NA	NA	-0.94710678056671
##	[41,]	-2.141781045711	-1.1740002614757	-0.625297894013	NA
##	[42,]	-0.849977043606	-0.6404182329771	-1.034665134886	-0.37519645892240
##	[43,]	0.332712563146	NA	NA	0.71266106150318
##	[44,]	NA	0.6958373250297	-1.452765698191	NA
##	[45,]	1.279661951636	0.4108494275433	-1.199847204294	-1.56216466681088
##	[46,]	1.315870597409	0.8211404243142	NA	NA
##	[47,]	NA	NA	NA	-0.32300673064091
##	[48,]	-0.567754726452	0.4149454251435	NA	0.06440088281945
##	[49,]	1.310736372612	NA	NA	NA
##	[50,]	1.047574190891	0.9782960852924	0.465658168632	NA
##	[51,]	-1.456025044982	-0.0211313202152	NA	-0.73693989671088
##	[52,]	NA	-0.9944841978977	-0.123065038546	NA
##	[53,]	0.554291361371	1.2015405700533	-1.641968189041	NA
##	[54,]	-0.164014372139	NA	NA	0.61971376622530
##	[55,]	NA	NA	NA	NA
##	[56,]	-0.279979069594	NA	0.798046736483	NA
##	[57,]	-1.080916247580	-0.0043044374176	NA	NA
##	[58,]	NA	NA	-0.693374343351	-0.17250196251181

##	[59,]	1.219394139490	-1.7241900376326	NA	-0.54352092299758
##	[60,]	NA	NA	NA	1.52899483731497
##	[61,]	-1.307872114039	-0.5407306084027	0.467461645164	0.56018724221810
##	[62,]	NA	NA	1.036098532898	0.66546534621994
##	[63,]	1.495846775590	-0.0621956602840	NA	-0.68238503749805
##	[64,]	0.376478655206	-0.9165340283272	-0.109065022446	2.02942679756645
##	[65,]	NA	-1.6939544825449	-1.777850383744	1.98212330269098
##	[66,]	NA	NA	0.025372730018	-1.14557736257418
##	[67,]	-0.835941494882	NA	-0.721856085017	NA
##	[68,]	-0.442122946225	NA	NA	NA
##	[69,]	-0.375994481904	0.0783498885551	0.897308164635	0.47534285964288
##	[70,]	-0.842770344513	-0.5916089853188	NA	NA
##	[71,]	1.326266228164	-0.5096150006984	NA	NA
##	[72,]	-0.546700615494	NA	0.955512065267	-1.05259180963565
##	[73,]	NA	NA	NA	-1.15886666131689
##	[74,]	0.168822765947	-0.0290122375340	NA	-0.98980117846140
##	[75,]	0.276132373017	0.4388183709914	-0.681366622734	NA
##	[76,]	0.091949907161	-0.6309426430415	-1.288526291088	NA
##	[77,]	NA	-0.5315150862326	NA	NA
##	[78,]	NA	0.0190023428273	-0.914250576670	-0.34114805649527
##	[79,]	-0.872082172738	0.0807506594181	NA	-0.38347778483495
##	[80,]	2.119808722361	1.1796025836275	-0.242790288259	-1.68466453929004
##	[81,]	-0.675890258625	-0.2850228808727	-0.331078265531	-0.00091799475442
##	[82,]	0.457733988660	NA	NA	-0.08713116503470
##	[83,]	NA	NA	-0.339434543815	0.08248338584531
##	[84,]	NA	0.1670752452746	0.822188168455	NA
##	[85,]	-0.195163799986	0.6429204981495	0.466327196650	NA
##	[86,]	NA	NA	-0.744314660689	NA
##	[87,]	NA	NA	NA	NA
##	[88,]	-2.271489578960	1.1758355448816	-0.088791508069	-1.45751706437833
##	[89,]	-1.263810037171	-0.2798535133573	-0.426987443477	0.57042765373177
##	[90,]	0.771453087849	-2.2602390705849	NA	0.26467108949807
##	[91,]	NA	0.2028141813735	0.240925752648	NA
##	[92,]	1.331067160129	-0.2865648021937	0.648923897261	NA
##	[93,]	NA	0.1985292618915	0.421406636537	NA
##	[94,]	-0.136702538330	NA	0.017310746861	1.63836100821348
##	[95,]	-0.778246839792	1.1401629406979	0.474487724619	0.57317597458383
##	[96,]	-0.113067145040	NA	-2.007427549240	1.25872287856307
##	[97,]	1.298406834312	-0.6139476507961	1.624179958838	0.88592830459368
##	[98,]	1.688399340110	NA	-0.124560587803	-1.90760927858162
##	[99,]	-0.315813429085	0.0996982619132	NA	0.24144684276547
##	[100,]	NA	-2.0156683828398	0.547244058250	0.53974882264684
##	[, 21]		[, 22]	[, 23]	[, 24]
##	[1,]	NA	-1.310894141417	-1.5957032927253	-0.423273416893
##	[2,]	0.2125102272192	-0.654180207819	-0.5395551171497	-1.376381267352
##	[3,]	0.9337457586441	-1.672019353826	0.4906938478203	2.506798910516
##	[4,]	1.4300323420638	-0.205990499938	0.0152110270318	NA
##	[5,]	NA	0.336812223031	-0.6199028267600	-0.273574356793
##	[6,]	NA	-0.505183182903	NA	0.713825324544
##	[7,]	-0.0097248271395	0.307150180414	-0.0425582822925	-0.149250851365

##	[8,]	-0.2307889162098	-0.935821932204	-0.0983398349217	-0.156980290757
##	[9,]	0.4864398889156	NA	0.3545441490318	0.010039881441
##	[10,]	-0.0863661874167	-0.557110840992	NA	-1.482156104772
##	[11,]	NA	NA	-1.2308780922576	0.302088148926
##	[12,]	0.8224563624529	0.749652924759	1.4686396282882	-1.752935627002
##	[13,]	-0.1522654912078	NA	2.8806166293945	0.183841872131
##	[14,]	NA	NA	1.1336425607075	NA
##	[15,]	1.8364177682836	-1.406358797529	-0.7993364603510	0.136478560702
##	[16,]	-1.6855328134032	-0.087156141010	0.3634507102590	0.906186769401
##	[17,]	-0.5026009417661	-1.097563998603	-1.1511313495308	-0.948212499529
##	[18,]	NA	NA	NA	-1.253508335525
##	[19,]	NA	-0.266442054721	0.0607596154196	NA
##	[20,]	-0.5912462762827	0.802045702383	NA	NA
##	[21,]	-0.8769415247422	-1.713707341078	0.8277541599338	NA
##	[22,]	0.1967263341010	0.465807252499	-1.8344212340479	1.121814349710
##	[23,]	1.3941649849576	0.788804216255	0.7292965187724	1.082223229745
##	[24,]	-0.3227360302173	-0.768544015427	NA	NA
##	[25,]	-1.7995183884890	-0.543762270538	1.2826546934718	NA
##	[26,]	NA	-1.673289120270	0.2038695534860	NA
##	[27,]	NA	-0.621246301135	-0.6155553441666	NA
##	[28,]	NA	-0.132596134702	NA	-0.805418788676
##	[29,]	0.2316313844135	-0.069074174176	0.5406885178149	NA
##	[30,]	1.3363844935312	NA	-0.0066170030662	0.020390694060
##	[31,]	NA	-0.515170466547	1.9368806981425	0.946875655826
##	[32,]	-1.0123081963781	NA	NA	1.588663799785
##	[33,]	-1.2227560312538	1.683256954351	0.8671177295359	0.034931546264
##	[34,]	0.7615649896676	0.451647465760	-0.0525710488132	NA
##	[35,]	-0.8150781689968	NA	NA	0.030496368862
##	[36,]	0.8275718766278	NA	NA	NA
##	[37,]	-0.1842406308354	1.002742334088	0.0700908120131	0.112396360928
##	[38,]	-0.2097925156623	NA	-1.3483682923356	NA
##	[39,]	0.2207149800595	-0.626439113122	1.9762208372277	-0.902399734105
##	[40,]	-1.4796653222317	NA	NA	NA
##	[41,]	0.0104512911261	0.048233409601	NA	NA
##	[42,]	0.6957400367539	NA	-0.8552450854084	NA
##	[43,]	0.4605196068514	-2.537658059283	-1.6441263821697	1.496354490014
##	[44,]	NA	NA	1.0995036337075	NA
##	[45,]	3.0268271457010	NA	NA	-0.313686122389
##	[46,]	NA	2.699185422844	NA	-0.185788422085
##	[47,]	-2.1519111552305	0.193186598163	NA	-0.995438691524
##	[48,]	NA	2.077553273012	-0.2780731864605	-0.441797695209
##	[49,]	1.4441031864320	-0.261592723347	-1.5200119361980	1.271299707603
##	[50,]	NA	NA	-0.5725302432742	-0.605192404819
##	[51,]	-1.2425869782073	0.647429344460	0.1077514682176	-0.198623169292
##	[52,]	NA	NA	1.3924448819925	-0.594192972620
##	[53,]	-1.0945749733908	0.777166587910	-0.2254113740977	-0.121077401811
##	[54,]	0.3639536133934	NA	NA	-0.790482192398
##	[55,]	-2.0457978105861	0.267523747549	NA	NA
##	[56,]	2.0331880917005	-1.146619608561	-0.4739819653558	-0.697551746298
##	[57,]	-2.0264211098000	NA	-0.3498277098540	-0.444328581491

##	[58,]	NA	NA	0.8272516640904	0.430597671758
##	[59,]	0.7478293277491	NA	0.3208697563546	NA
##	[60,]	0.3796709111985	-0.586085489016	0.4102661855222	NA
##	[61,]	0.0735560941913	0.570771812317	NA	-2.523163429267
##	[62,]	0.7140456336071	0.265774576961	0.9065084004418	-0.443050986282
##	[63,]	-0.7350701337455	NA	-0.7723526456292	NA
##	[64,]	0.5528256299423	1.622236945789	0.3705053712812	0.245829807147
##	[65,]	0.7828871200794	-0.185689700091	NA	NA
##	[66,]	0.3757103808962	-0.368701264642	NA	-0.644316784606
##	[67,]	-0.4396731116501	0.358944565246	NA	-1.974119824335
##	[68,]	NA	NA	NA	0.409475613478
##	[69,]	NA	NA	0.1368964775235	NA
##	[70,]	-1.0529953093519	1.122512267769	0.1609435890355	NA
##	[71,]	-0.8418018665280	-0.811045408843	0.6132034890871	1.444078904291
##	[72,]	NA	-0.340598926940	NA	NA
##	[73,]	NA	0.075424345993	0.7301436505861	-0.356445542427
##	[74,]	NA	0.501644515457	NA	0.814342157290
##	[75,]	NA	-0.488732644516	-0.6529217873483	0.687339271417
##	[76,]	NA	0.354639972924	1.7783383621856	0.319975141686
##	[77,]	NA	0.248740842369	-0.0851564509354	1.558680775851
##	[78,]	-0.7500703918122	NA	0.5860343712955	1.673084318436
##	[79,]	NA	0.629094039380	-0.3120902403744	0.305593261561
##	[80,]	-0.5021102568587	0.452147940255	0.6339610579475	-1.192049805524
##	[81,]	0.4186784646834	1.120298839165	NA	0.925421620301
##	[82,]	1.3782269698712	1.600265702273	NA	NA
##	[83,]	-0.6318368945643	-0.643835867388	NA	NA
##	[84,]	NA	-0.108740525758	-0.4280249980559	NA
##	[85,]	0.4761757283116	0.242241143415	NA	0.366264852990
##	[86,]	-0.8613719263436	1.674005644188	NA	1.447962289836
##	[87,]	NA	-0.810845958411	NA	-0.520388850519
##	[88,]	0.3186906275654	NA	0.1304823861366	NA
##	[89,]	0.5819885848770	1.183315043436	-0.3505857660029	-1.838692875483
##	[90,]	-0.2797731290528	-1.040689459976	0.1986317816203	-0.450634681206
##	[91,]	-1.2903910701773	-1.100786830283	NA	0.469463351492
##	[92,]	0.5797075585422	-0.113421736160	0.7874105579361	0.297226581229
##	[93,]	0.6511055798706	NA	NA	-0.903218194261
##	[94,]	-1.5107706928468	0.824379525261	-1.9405676939292	NA
##	[95,]	0.8100164656371	NA	-0.1702135936808	NA
##	[96,]	2.2041377421055	-0.255834486231	-0.9315860540571	0.749339053751
##	[97,]	0.3162860245113	0.485851913445	NA	-1.044268736973
##	[98,]	-0.0214056754804	1.053686805971	NA	-1.493304473079
##	[99,]	1.2898670682387	NA	0.1728942207872	0.425303120504
##	[100,]	NA	NA	NA	-0.700769721111
##		[,25]	[,26]	[,27]	[,28]
##	[1,]	NA	NA	2.803624078176	0.145860177078
##	[2,]	NA	1.998217283880	NA	-1.425112527841
##	[3,]	1.0531168530921	-0.858201515318	NA	-1.051729283657
##	[4,]	NA	NA	-1.949146258740	0.353233642570
##	[5,]	1.7642439052932	0.081906569384	-0.594116281638	2.223576406767
##	[6,]	0.6922794558644	-0.065035787292	0.518385340442	-0.289596286333

##	[7,]	-0.9325713253514	0.735010909253	NA	0.051984705885
##	[8,]	-0.1296601304376	NA	NA	NA
##	[9,]	-0.6206219196706	NA	NA	-2.015589215541
##	[10,]	-1.0447376721402	-2.042467863746	1.379763647919	-1.016960370774
##	[11,]	-0.2817905226199	NA	NA	NA
##	[12,]	0.0407356256676	0.474308258585	0.052840917310	1.227439158839
##	[13,]	-0.9219713601402	1.024102347548	2.041279032815	-0.345487427680
##	[14,]	-0.6919426176603	-1.985907639581	0.918475261843	-2.104803063191
##	[15,]	1.0699720570011	NA	NA	-0.189418493779
##	[16,]	NA	-2.011838941045	2.642192549752	NA
##	[17,]	-0.0768486878989	-1.652439033207	NA	-2.275881921767
##	[18,]	1.3046913270346	-0.645284893046	1.066937012480	1.647053854882
##	[19,]	0.2598593089544	1.085996373865	NA	-0.698116672167
##	[20,]	NA	NA	-1.075615237523	-0.756838915827
##	[21,]	-1.6090966131768	1.119633518810	NA	0.384133435108
##	[22,]	NA	0.675429931858	NA	NA
##	[23,]	NA	1.111527136466	-1.159842351714	NA
##	[24,]	-0.5474742564447	NA	-0.190526416041	-0.410381647522
##	[25,]	NA	0.755874683821	NA	NA
##	[26,]	NA	0.445995043181	NA	-1.483491372001
##	[27,]	NA	-2.073895836400	0.895305051500	NA
##	[28,]	NA	-1.732849740746	-0.577295866711	1.949788870866
##	[29,]	-1.0508184862765	NA	0.759038459093	1.169336376658
##	[30,]	0.6767334005315	NA	-0.251493065806	NA
##	[31,]	-2.3868593908084	1.143935128167	0.784856634170	0.639319332934
##	[32,]	1.4048910597694	NA	-0.533102567266	-0.635336214206
##	[33,]	NA	0.142196696263	1.059369458705	NA
##	[34,]	NA	0.549849551957	0.283748960871	NA
##	[35,]	NA	NA	-0.886264629950	NA
##	[36,]	-0.7392756914092	1.164017663701	0.558988573279	NA
##	[37,]	0.1750158619689	-0.960653682507	NA	0.665691976789
##	[38,]	NA	-0.537409746876	NA	0.021366823850
##	[39,]	0.0471693666789	-0.559740447740	NA	NA
##	[40,]	0.4399496183909	-0.656860374288	NA	NA
##	[41,]	NA	-0.785589095456	NA	2.299297309864
##	[42,]	NA	-0.174836568998	-0.826831580991	NA
##	[43,]	NA	NA	-1.239586870939	1.447987197853
##	[44,]	NA	-0.334778362686	NA	0.118546343055
##	[45,]	0.0029144441671	NA	NA	-1.503944599937
##	[46,]	0.3104505833655	-0.813531904778	NA	NA
##	[47,]	-0.2215041520348	NA	-1.512850884743	1.194715714434
##	[48,]	0.5020655645026	NA	-0.055079702598	0.185176992035
##	[49,]	NA	NA	NA	NA
##	[50,]	0.8705301091909	0.851919573712	NA	0.316316800643
##	[51,]	-1.2130373753783	-0.108226474316	NA	-0.211476853914
##	[52,]	NA	-1.818564978714	2.221195396569	NA
##	[53,]	-0.9275330497799	NA	0.247429648095	-0.461439125040
##	[54,]	-2.0178966929119	NA	0.283580891525	0.733150219858
##	[55,]	NA	1.376997664820	1.069668612632	0.344436130154
##	[56,]	NA	0.442074069703	-1.019506865341	-0.478945761961

##	[57,]	NA	0.215683544488	0.851197866805	NA
##	[58,]	0.8979183460827	-0.604378405512	NA	NA
##	[59,]	NA	-0.630956262799	0.688184888066	NA
##	[60,]	-1.2878528707960	0.812773290134	0.599449675071	NA
##	[61,]	-0.3322181130762	1.064686684907	0.052118923869	NA
##	[62,]	1.8154717946006	0.528841879226	NA	NA
##	[63,]	-0.5296566207270	2.402234944753	-0.733026061980	-1.377266578069
##	[64,]	0.8458374075724	NA	NA	NA
##	[65,]	NA	NA	NA	-0.337055555140
##	[66,]	0.5947804325934	NA	3.290537704299	NA
##	[67,]	-0.3166894156812	1.638153252967	-1.448912150598	-1.324631621209
##	[68,]	0.9137510101935	0.110503019152	0.043533263956	NA
##	[69,]	0.3471426841563	-0.204364116322	-0.532763685538	1.166188738087
##	[70,]	NA	0.479553104775	-1.359347102798	-0.017765499019
##	[71,]	0.1385213291337	NA	0.993987544131	NA
##	[72,]	0.5416629910212	-0.643309476996	0.285386544088	1.578212774007
##	[73,]	-0.7334421882213	-0.265106677668	-1.517019181329	-0.708783710553
##	[74,]	-1.1988483477845	-1.145453437552	0.885428893370	NA
##	[75,]	0.6856025860163	NA	NA	NA
##	[76,]	-0.1030237705677	0.818484887236	0.116837968730	NA
##	[77,]	0.0233989318364	-0.596613010748	-1.226024951660	1.608629501339
##	[78,]	-0.8982594068157	NA	-0.198538027325	NA
##	[79,]	1.2269612614669	1.495072613719	NA	1.600274482341
##	[80,]	0.7422543677280	-0.562143937506	1.418804302135	0.669518461123
##	[81,]	-0.4460615859014	NA	-0.105488791778	-0.620360036704
##	[82,]	-0.8285623728901	-1.242872513372	NA	NA
##	[83,]	NA	-0.415000485404	0.892588300662	-0.436720722301
##	[84,]	-0.2435897481561	0.281395762975	0.644987780505	2.366668991774
##	[85,]	0.0117810797102	NA	-0.022775423570	0.785460712274
##	[86,]	-0.2038599515854	0.320766347430	0.522987415669	-1.107206216410
##	[87,]	-1.6486274270263	-1.304964926244	NA	2.283063237241
##	[88,]	0.4099759330272	-0.346068874409	NA	-0.657499546184
##	[89,]	NA	-2.071387680662	-1.176901800118	1.669063493548
##	[90,]	0.5072666064746	1.555568462517	-0.950959063492	0.244544865044
##	[91,]	0.4043500691307	0.506314713387	1.162185157168	NA
##	[92,]	0.3124627823765	-1.204644411164	-0.473202891646	-0.089465837304
##	[93,]	NA	NA	NA	1.902385970865
##	[94,]	-0.4255021895553	NA	-1.011098327253	-0.700294147842
##	[95,]	NA	-0.094048754172	0.714573839995	NA
##	[96,]	-0.8273794716673	1.119556069675	-1.768339162324	0.345736615049
##	[97,]	NA	-1.741437458364	1.303221777985	-0.365376771823
##	[98,]	NA	NA	-1.780097787152	-1.895438585734
##	[99,]	0.1600430201572	0.613820771767	NA	0.932398854794
##	[100,]	-0.2646750969730	-0.627392311107	-0.036390717820	0.156663410737
##	[,29]		[,30]	[,31]	[,32]
##	[1,]	0.8233717865648	0.261057765756	0.258113359293	1.744182686047
##	[2,]	NA	NA	NA	NA
##	[3,]	NA	-0.655721088057	1.378902017545	-2.279217921675
##	[4,]	NA	NA	-0.467148239538	-0.760338046852
##	[5,]	0.7159601319897	0.321188060904	NA	NA

##	[6,]	0.1078426625512	-1.163282615344	0.670187576284	NA
##	[7,]	NA	1.074213227345	0.961140075304	NA
##	[8,]	1.0116597435425	0.063117717055	0.314747364593	-1.207191889141
##	[9,]	-0.2335398145460	NA	0.528180370789	-0.105589517392
##	[10,]	-0.0873818070010	-0.884892674345	0.303157807477	NA
##	[11,]	0.2756409827243	0.584767089727	-0.966003122624	0.261445647572
##	[12,]	NA	-0.130466374497	-2.185869413458	NA
##	[13,]	NA	NA	0.196852811862	-0.226918206125
##	[14,]	-0.7070235047242	NA	0.941147118455	0.187586398249
##	[15,]	NA	NA	NA	NA
##	[16,]	NA	0.470269294161	-0.688572231078	NA
##	[17,]	-1.1288081278958	0.677757645157	NA	0.184428016000
##	[18,]	-0.7132329955075	-0.195007930718	NA	NA
##	[19,]	-0.2029785636419	1.477521241349	-0.354015946299	NA
##	[20,]	-1.1857280295779	NA	NA	NA
##	[21,]	0.8926897480349	0.248607966975	0.251563126381	-1.528793350524
##	[22,]	-1.1734803775539	0.284359888731	-0.510996559348	1.433484782335
##	[23,]	0.6622284629217	2.657265012876	-0.054455253535	0.122096829914
##	[24,]	0.5015578819958	0.176884580909	-0.670810680969	0.090598239299
##	[25,]	NA	2.274657429753	0.127867026702	0.526293228411
##	[26,]	-0.6280794408635	0.697755881467	NA	NA
##	[27,]	NA	-0.062538592633	NA	0.475307438895
##	[28,]	-0.8949963971631	NA	-0.320799021044	-0.166249241402
##	[29,]	-0.0055205738593	NA	-2.385807259073	-0.674671749572
##	[30,]	-1.0559470476161	NA	NA	0.187144501363
##	[31,]	-0.2441477250683	-0.176466349410	0.024828937536	-0.432156741534
##	[32,]	0.7139707416219	0.190381163549	-0.311448649875	NA
##	[33,]	0.8126840103322	NA	-0.229254576607	NA
##	[34,]	NA	NA	NA	NA
##	[35,]	-0.7185294062953	1.776922194982	0.729872723010	NA
##	[36,]	-0.8172291635033	-0.063283609960	2.421874539469	0.946293989974
##	[37,]	NA	NA	2.022392335964	NA
##	[38,]	-0.3519196654188	NA	-0.620741856647	-1.133136942953
##	[39,]	NA	-0.105361392593	-0.173017557639	NA
##	[40,]	-0.4583531211601	-1.334581421343	-1.917322074042	-1.260849124549
##	[41,]	-1.2540184849230	0.674897305168	-0.261089444594	-2.644842191825
##	[42,]	NA	0.027788532132	NA	NA
##	[43,]	0.5518829926970	1.129925267009	-1.707370452058	-0.161795238224
##	[44,]	NA	-0.278088911932	-0.687559686134	0.930469024477
##	[45,]	0.9483272931456	0.342195742987	0.235633919177	-0.643749783271
##	[46,]	0.5280476112508	NA	0.890281005047	-0.215240286448
##	[47,]	NA	-0.347448898274	1.361312278661	1.299197336835
##	[48,]	NA	-0.428241526789	NA	-0.825960548450
##	[49,]	-1.7969954311250	1.047184199204	NA	-0.353619497335
##	[50,]	NA	1.861692435804	1.441999720892	NA
##	[51,]	NA	-2.641407428959	1.646847497312	-0.486249877613
##	[52,]	-1.1967880777798	NA	-0.037144806251	-1.542918082561
##	[53,]	0.0457439293721	-0.673737705660	NA	0.018208403887
##	[54,]	-0.8276253582839	NA	-0.621210781670	NA
##	[55,]	-0.5489805628209	-0.740260031976	-1.784878531774	-0.785802232279

##	[56,]	-1.3105901340268	-0.017807442399	NA	-0.719673435904
##	[57,]	NA	-0.037511821209	NA	-0.211937006994
##	[58,]	-1.3511032577397	0.269530070779	-0.485271475805	-2.660688266466
##	[59,]	0.3868927667593	-0.676867503263	0.271844652317	NA
##	[60,]	-0.2622454562814	-1.099253595909	0.988471730465	NA
##	[61,]	NA	1.724184190513	NA	NA
##	[62,]	NA	NA	-0.019655684506	-0.251588685687
##	[63,]	NA	1.758840664108	-0.454131281121	0.851587858145
##	[64,]	1.0397401867423	NA	NA	0.511859997686
##	[65,]	1.5605311325289	NA	NA	-0.449519637364
##	[66,]	1.1971852516804	-0.431980478667	0.203896624231	0.300488961140
##	[67,]	0.2449472569299	-1.824800148989	-1.157979583271	NA
##	[68,]	NA	NA	2.041529880400	0.215170832566
##	[69,]	NA	NA	NA	-0.990097402777
##	[70,]	NA	0.117783284299	NA	1.262158324217
##	[71,]	-0.8824548923038	-2.235376707253	0.362399465966	NA
##	[72,]	-0.5060791442874	-0.812751080295	-0.231363508703	1.045816123586
##	[73,]	1.5564983834335	-0.405986924804	0.079467526219	NA
##	[74,]	NA	0.088266382122	1.040973896743	0.565959336496
##	[75,]	-0.0223520493907	-0.676311425509	0.151577836654	0.439840061524
##	[76,]	NA	NA	1.300968171065	-0.328515775359
##	[77,]	-0.7812248847233	2.800788022390	0.200609447408	-0.819292462716
##	[78,]	0.4946700720563	0.622589196671	-0.653126496983	NA
##	[79,]	0.1857908655461	0.652479290592	-0.138269109306	NA
##	[80,]	NA	NA	NA	-0.442169810364
##	[81,]	NA	NA	0.144263503673	NA
##	[82,]	-0.1000289551688	0.010042948379	0.033011986230	0.089560113098
##	[83,]	-0.1671877482197	1.140710258376	1.142486566568	-1.914337853336
##	[84,]	NA	0.361468211725	NA	NA
##	[85,]	NA	NA	NA	NA
##	[86,]	-0.4853313155430	0.863331282466	0.350139914654	NA
##	[87,]	NA	0.372101463594	-0.848939493929	0.658608742956
##	[88,]	0.2106060755457	0.224663452080	2.118982210476	NA
##	[89,]	-1.8738466610997	-0.169452210295	1.074342926555	NA
##	[90,]	-1.4327418448794	-0.886296977057	1.272723879400	-1.251158756026
##	[91,]	NA	0.074365019497	-2.120253411916	0.871918407401
##	[92,]	0.8884103109872	-0.529597251192	NA	-0.816373526115
##	[93,]	NA	-1.266491885328	0.798658532133	-0.624006409651
##	[94,]	-0.0542562224197	-1.279084260009	0.330226714940	NA
##	[95,]	NA	-2.098734781347	NA	0.587906011900
##	[96,]	-0.3048337604992	NA	-0.238481304461	-1.114268137136
##	[97,]	NA	-0.321167943047	-0.379761947686	0.672525289481
##	[98,]	0.1560699461441	0.436788590221	NA	-0.414338666528
##	[99,]	0.4445940735760	-1.027524829296	NA	NA
##	[100,]	0.7647902929672	-1.041599207037	-0.273099430865	-1.375527684641
##		[,33]	[,34]	[,35]	[,36]
##	[1,]	-0.807509308244	NA	2.506237023220	-2.513456323201
##	[2,]	-0.457315029513	-1.52930698517863	-0.575314924268	NA
##	[3,]	0.035578900051	-0.67164812997893	0.069026653748	0.452018951824
##	[4,]	-0.460244352109	-1.27871260666828	NA	NA

##	[5,]	0.947717311979	-2.08693292776896	NA	-1.193208653055
##	[6,]	-0.562206974273	-0.33324670893932	0.165843759518	-2.746675945863
##	[7,]	1.737645212696	-1.28312871760087	-0.451981989369	-0.502869775697
##	[8,]	NA	NA	-1.351788388847	NA
##	[9,]	1.442008064323	0.00272039733666	-0.742875839561	-1.722199741955
##	[10,]	1.677376139024	-0.46858572555151	NA	-1.206542407594
##	[11,]	NA	-0.38850455172879	NA	NA
##	[12,]	NA	1.66158422145029	-0.887153515749	1.298643728711
##	[13,]	0.905171163664	NA	0.126071849183	-0.550936990885
##	[14,]	-0.944836986249	-0.30236705327256	-0.821379618187	1.087051664422
##	[15,]	0.672298874192	-0.33404868624487	-0.600021890403	2.128426438948
##	[16,]	NA	-0.77710291355883	NA	NA
##	[17,]	0.148535467496	0.18153909923513	NA	-0.299629864198
##	[18,]	1.406220945896	0.20328292014351	NA	0.380769995218
##	[19,]	NA	NA	0.574351257899	-0.674121867016
##	[20,]	-1.339393879748	NA	2.453382755682	-0.237594956608
##	[21,]	0.358501680529	0.41215421413433	-0.309367952425	-1.383639357362
##	[22,]	-1.107863240134	-0.07239064680613	-1.175881215488	-1.260569449311
##	[23,]	-0.480794754429	0.57691304246837	-0.174200841594	NA
##	[24,]	-0.011131927772	-0.27529626214158	NA	NA
##	[25,]	-0.373557403746	NA	NA	0.623186090839
##	[26,]	1.783304136692	0.79236013926571	-2.492633770762	NA
##	[27,]	NA	-0.80824184152590	NA	-0.276321816139
##	[28,]	NA	-1.32859228885886	2.150444197436	-2.805910091892
##	[29,]	-0.735928407143	-0.37197789212832	-0.995765575201	NA
##	[30,]	-0.592430478687	NA	NA	0.365306764503
##	[31,]	-0.029264616882	NA	0.385035426818	-0.010145284660
##	[32,]	-0.255583130604	-0.34575739213626	0.783813823968	1.310889782688
##	[33,]	0.508559855643	NA	-0.392518273555	0.638588922775
##	[34,]	0.961116274129	1.19179593475239	-1.066848364859	0.033598193406
##	[35,]	-0.628590694984	NA	0.798448995926	0.026480085914
##	[36,]	1.690469568155	0.18702591493873	-0.966988035789	-0.143412042732
##	[37,]	NA	0.59394960311999	0.265430866667	0.852237105790
##	[38,]	-0.918711305976	NA	NA	0.842069453019
##	[39,]	0.733101263669	NA	NA	0.632113242563
##	[40,]	2.110021727123	0.17212755075637	NA	0.129125980671
##	[41,]	-0.633276971768	NA	2.737059534478	1.233156754849
##	[42,]	NA	0.03727548714816	0.148855709681	-1.875571069216
##	[43,]	0.326044267762	0.52412045506532	0.140838989744	NA
##	[44,]	NA	1.15340014217763	0.255707971020	-1.737822425810
##	[45,]	-2.222751121264	NA	-0.785584322547	NA
##	[46,]	0.777558343684	0.39906858505026	NA	0.914079487180
##	[47,]	-0.806311984971	2.03770821293951	NA	-1.355451761191
##	[48,]	NA	NA	NA	NA
##	[49,]	NA	-0.13584990009621	-0.935793338637	-2.311056710566
##	[50,]	2.507660450377	-0.98467650807803	NA	NA
##	[51,]	0.962688255040	-1.10927320875575	NA	-0.180168507861
##	[52,]	0.829172345296	-1.44494190751738	NA	NA
##	[53,]	0.144066451945	0.52444370114473	-1.106193092072	NA
##	[54,]	-0.375759371109	0.00040425076373	-0.779005106977	-0.610496236292

##	[55,]	-0.279281941169	NA	0.159091771420	-0.744538537858
##	[56,]	0.842416365106	NA	-1.588503615536	NA
##	[57,]	-0.277978363947	1.34076493703172	NA	NA
##	[58,]	NA	0.53921801299269	-1.068298026363	1.645090045463
##	[59,]	NA	-1.31877055751532	0.940937991835	-1.088122748712
##	[60,]	0.923389045038	0.44919007535822	NA	NA
##	[61,]	0.273331713195	-0.33772337397845	NA	-1.032836929799
##	[62,]	NA	1.81987494170774	-0.173168016618	NA
##	[63,]	-0.280701884785	NA	NA	0.206914496416
##	[64,]	NA	NA	NA	NA
##	[65,]	-0.459786299356	0.61480960645179	-1.329161353193	NA
##	[66,]	1.516438600309	NA	0.785176689182	1.004336274420
##	[67,]	0.843513765359	0.76589558079868	-0.609792725224	NA
##	[68,]	-1.349925673796	-0.70623959859172	-0.372196680191	NA
##	[69,]	-1.129200138477	-2.34773625029266	NA	NA
##	[70,]	0.135902309404	-2.55079357848281	-0.700191114075	NA
##	[71,]	-0.438573970817	-0.37355302868519	NA	0.992774881503
##	[72,]	-1.260960244147	0.75832214415967	-1.316747354976	NA
##	[73,]	-1.186264119940	0.74476706584761	-0.483041901931	1.824423961309
##	[74,]	-1.283459602606	0.57287762655441	-0.050343744584	-0.442708227454
##	[75,]	-0.549567426984	1.22772075631527	NA	2.447199281951
##	[76,]	NA	NA	1.152264098387	-0.562152725095
##	[77,]	-0.287061034866	-0.77938659309374	0.860794105044	NA
##	[78,]	-0.736477301419	-0.31809787436542	0.726163827252	NA
##	[79,]	-0.764633481955	NA	-0.083651678519	0.636908008075
##	[80,]	1.242801401940	0.28238818993615	NA	-0.176138377017
##	[81,]	2.009339022907	-0.77478746692962	NA	-0.849237997363
##	[82,]	NA	0.53356677609261	NA	0.032470298366
##	[83,]	-0.128353060919	0.77692561789365	2.046594381011	-1.789784586707
##	[84,]	0.343078143762	0.84061998723649	-0.529915421870	-0.763061167468
##	[85,]	NA	NA	-0.168592828837	-0.013717110536
##	[86,]	-0.058132018464	0.24040180876612	NA	1.752590719269
##	[87,]	-1.439098447444	-1.66307088563618	-0.861083546006	NA
##	[88,]	1.556012866277	1.19512797630182	-0.092324677266	NA
##	[89,]	0.033704591994	2.07143124345585	0.450678077856	NA
##	[90,]	-0.275941558969	NA	-0.328524981644	1.047557490506
##	[91,]	-0.023974749881	-0.90493474211783	-2.184294543312	0.066037116743
##	[92,]	NA	NA	-0.200097797072	NA
##	[93,]	-0.747499169052	NA	0.241628655138	-0.297849832606
##	[94,]	0.982152839155	-0.45823013025359	NA	NA
##	[95,]	0.655740302754	NA	0.092654920253	0.292152154429
##	[96,]	NA	-0.03151478187065	NA	0.527857508529
##	[97,]	-0.894190402628	-1.21289727106083	0.648830328379	1.276591250678
##	[98,]	0.807488758472	0.29650320623343	1.824546666593	NA
##	[99,]	NA	NA	-0.811563421173	NA
##	[100,]	-2.249630575986	NA	NA	0.809625817337
##		[,37]	[,38]	[,39]	[,40]
##	[1,]	NA	0.197723021543	NA	NA
##	[2,]	-0.036445578503	-1.704524355396	0.490527496448	0.6503143490121
##	[3,]	0.913028547452	-0.014201352482	-1.745355797546	NA

##	[4,]	NA	-0.730821309659	-2.364943443639	NA
##	[5,]	NA	1.757859801511	NA	NA
##	[6,]	0.086598239471	1.608113853962	-1.237411870630	NA
##	[7,]	1.054238180730	NA	-3.284471186842	-0.0373081289565
##	[8,]	NA	-0.457957211976	-0.714238007939	-0.0631336894280
##	[9,]	-2.176337027692	-0.067055626001	-0.636862663506	0.3088549343126
##	[10,]	0.987975328792	0.326451612672	1.220568822818	-2.3478230829755
##	[11,]	0.316721084077	0.034701670788	-0.833816080585	-2.5674973712101
##	[12,]	NA	-1.046871604899	NA	1.0647823459183
##	[13,]	NA	-0.979422978609	NA	NA
##	[14,]	0.563640874934	NA	-1.330180322866	NA
##	[15,]	-0.353699004346	1.363462365465	NA	-1.1581306793686
##	[16,]	0.333267462553	1.863656408852	-0.174142277792	NA
##	[17,]	-0.543282381470	2.644991934217	-1.383600224953	1.0782988088709
##	[18,]	0.087502983970	NA	-0.941945492263	-1.2049449350974
##	[19,]	NA	-1.945342546275	NA	NA
##	[20,]	-0.424187942496	-1.048767698089	NA	-0.0794027796792
##	[21,]	NA	0.657465482310	NA	-2.2736615121107
##	[22,]	0.847269952049	-0.073691786587	0.045697652854	0.0104720558939
##	[23,]	0.898120624445	0.996137816971	-2.701502132042	-1.4461983575938
##	[24,]	0.241774604158	NA	NA	NA
##	[25,]	-1.173717359269	NA	-0.345608655272	-0.2752633472721
##	[26,]	NA	2.689932070973	NA	NA
##	[27,]	0.186870853036	0.668611327102	NA	0.3566075474853
##	[28,]	0.376029492805	NA	NA	1.5978254753465
##	[29,]	NA	-0.092689578981	-1.592113906796	NA
##	[30,]	NA	-1.086402770676	-1.017118200805	NA
##	[31,]	-0.675928020725	-1.740580858526	NA	NA
##	[32,]	-0.307544391250	-1.559456944702	NA	-1.0622856758867
##	[33,]	-0.544331497471	NA	-0.064331372964	1.1685094349766
##	[34,]	0.884767791433	0.961117254069	-0.653963545506	NA
##	[35,]	-1.759053805984	0.463421588167	-0.889638726447	-0.4396254722506
##	[36,]	NA	NA	0.295298185020	-0.5028133941280
##	[37,]	-0.065112384808	-0.883823778842	-1.893331771335	0.1477119703434
##	[38,]	-1.297667901621	NA	-0.312814238589	-0.2397128894895
##	[39,]	0.601124062169	NA	-0.355487611848	-0.6836199254675
##	[40,]	0.308629383236	-2.704285037110	-1.574563811690	NA
##	[41,]	0.181208968497	-1.121058451597	NA	0.0684639458387
##	[42,]	1.198853290317	NA	0.148726571251	NA
##	[43,]	0.413052297851	0.758015019214	NA	-0.2902923804682
##	[44,]	1.330156408619	0.925363136520	NA	-2.3223439433343
##	[45,]	0.951640625082	0.684299299686	-0.819658538397	NA
##	[46,]	0.144855861052	1.437993756311	0.186452177146	-0.0016314471699
##	[47,]	-0.306675985878	-2.382095714867	-2.434732467739	-0.5755513673781
##	[48,]	NA	0.835745437608	1.077790031896	0.1325871494713
##	[49,]	-0.551039364584	-0.519040744500	-0.101042156177	NA
##	[50,]	NA	-0.431862443450	1.736638525445	-0.1832064841357
##	[51,]	-0.369894640529	0.687293445652	-1.840026067401	1.4906543060909
##	[52,]	NA	-1.572893877570	-0.500038592980	-1.3882745690998
##	[53,]	0.319943594904	NA	NA	NA

##	[54,]	NA	1.099458924626	0.906158178623	-0.2209783010877
##	[55,]	-0.691470175565	NA	NA	-0.8809676251328
##	[56,]	NA	-0.840280093575	NA	0.1450514624257
##	[57,]	-0.114523328409	0.871351822858	0.048265585018	NA
##	[58,]	0.074711347500	NA	0.346468734764	-0.8500850437326
##	[59,]	NA	-0.965493803648	0.404274496158	NA
##	[60,]	NA	NA	0.092718821197	NA
##	[61,]	0.411749321760	NA	1.565241510659	-0.2537037605614
##	[62,]	-0.664754093970	0.930519846666	-0.019063494092	-0.3983808996507
##	[63,]	0.739164555498	-0.412526115752	-1.765023828543	-0.7572930548963
##	[64,]	-0.567859083803	NA	-1.156075687775	0.5774960102447
##	[65,]	0.860839334594	NA	-0.748722515061	NA
##	[66,]	0.458209302501	NA	1.262318746812	0.8600775973225
##	[67,]	NA	NA	-1.004953138204	0.6846775082139
##	[68,]	-0.086867248775	NA	0.560541789457	-0.4029105835713
##	[69,]	0.159657816804	NA	0.513531698881	NA
##	[70,]	0.937090614810	-3.146073238931	-0.338219959994	0.7391304304190
##	[71,]	-0.123891070696	NA	-1.015999799085	-1.4072227554244
##	[72,]	NA	-0.267554506706	0.616056651245	-0.7229176732349
##	[73,]	0.647847346733	0.085636066633	NA	NA
##	[74,]	-0.477817536556	1.818022595181	NA	NA
##	[75,]	-1.070600468202	NA	0.741263677847	2.3369177436054
##	[76,]	0.864234314287	NA	0.527950735465	NA
##	[77,]	NA	-0.666291695271	-0.601415678416	NA
##	[78,]	NA	NA	0.208019032304	NA
##	[79,]	0.240998094386	-1.072906322791	0.146603776537	-0.0671478370932
##	[80,]	NA	-1.052539180567	1.870665040172	-0.3011206869224
##	[81,]	1.746815910201	NA	NA	-0.6943043829700
##	[82,]	NA	-0.110326231579	0.096238600622	-1.5127096570599
##	[83,]	0.883040378573	NA	NA	0.4346381454957
##	[84,]	NA	-0.587662135793	0.364730187977	-0.6790431368885
##	[85,]	-0.903174243049	NA	0.627281060191	0.2187272031439
##	[86,]	0.340036925379	0.538232138474	NA	NA
##	[87,]	NA	-1.408218259642	0.035822788773	0.4223850518923
##	[88,]	0.211203527220	0.805248611130	0.113373753028	NA
##	[89,]	NA	NA	NA	NA
##	[90,]	NA	1.365289149655	0.453901637250	NA
##	[91,]	0.367663265155	NA	NA	-0.5576838812295
##	[92,]	NA	0.431956352804	-0.833438631467	1.0988481228331
##	[93,]	-0.269039832269	2.267124163180	0.202532571010	NA
##	[94,]	NA	1.022086370255	NA	NA
##	[95,]	0.141517424960	0.397270063363	-0.172644137626	0.0066010300808
##	[96,]	2.477525525183	NA	NA	NA
##	[97,]	0.888349024082	0.487924882241	0.170668444017	-0.8372269924052
##	[98,]	-0.628093452541	-1.438521064367	-0.051622268867	0.5587465280037
##	[99,]	0.111190665984	0.262474327830	0.418003208304	1.3902342202934
##	[100,]	-0.550429548386	1.963288006821	-0.454738832984	0.7129776568196
##		[,41]	[,42]	[,43]	[,44]
##	[1,]	-1.2418724177920	0.3590423219891	-1.9906352091008	0.4961294249164
##	[2,]	-0.4744246628857	0.1268873148082	2.1493517606027	0.2091951114010

##	[3,]	1.6814459143116	NA	NA	NA
##	[4,]	NA	-1.8160851847966	0.0236072286421	-2.2861561121144
##	[5,]	NA	0.7001112453015	-0.4376893783753	2.4493665011237
##	[6,]	0.2492082836518	-1.5923317111123	0.0056917300514	-0.0051337289794
##	[7,]	-0.5259038905112	0.0325113874930	-0.0274771420593	0.0205818158816
##	[8,]	-0.5830746020621	NA	-0.1124940084476	-0.3864125052714
##	[9,]	-0.7155516519182	0.8483456519500	NA	0.9760586749235
##	[10,]	-0.2738067197685	0.0411458798135	-0.9630906532730	0.1820406102266
##	[11,]	-1.5370412731321	0.2021167826515	0.3860551954174	NA
##	[12,]	-1.2004268818469	1.2669347852876	NA	NA
##	[13,]	0.2394951403827	NA	1.7440786357142	NA
##	[14,]	0.5325854893110	0.1200025695650	-0.5105563555520	-0.3737691557040
##	[15,]	0.7573143308990	-0.3772849330879	-1.1096182652106	0.4598037703186
##	[16,]	-1.2519164188085	0.2616261690105	NA	NA
##	[17,]	-0.6935764685048	-0.1329154240989	-1.0354406314018	NA
##	[18,]	NA	0.4957775811645	-0.0713240807437	1.5668479204068
##	[19,]	NA	NA	NA	-0.5405897728873
##	[20,]	0.6119590536507	-0.8861150042223	0.2947755825003	NA
##	[21,]	0.9609197136961	NA	NA	-0.7556800562155
##	[22,]	2.6375274460530	-0.6956989143866	-0.5667314747135	0.4788609572002
##	[23,]	0.1630574048285	-0.7370346163701	NA	NA
##	[24,]	-0.5708253033626	NA	0.0678462540122	0.3466416915138
##	[25,]	-0.0317664499194	NA	-1.3041179390260	NA
##	[26,]	0.2437171004299	0.1288987729026	-0.6601550761780	-0.3112609213339
##	[27,]	0.8748128558752	0.1496073337198	0.9889893454151	0.5781427402719
##	[28,]	0.2531262238052	1.6723642494735	-1.7055600748150	0.0585682249881
##	[29,]	-0.1624552390498	-1.2524326200859	1.2680131536496	-2.6497531833830
##	[30,]	-0.9324802311583	0.1662170616141	-0.1421920408290	1.2842936244701
##	[31,]	0.1959446535055	1.2388725872836	1.4680802636419	-0.4386598857345
##	[32,]	-0.7256957965881	0.4009294887709	0.8130945691284	-0.5157540688282
##	[33,]	0.1313155003115	0.7750237968087	-1.6072005111881	-1.0031112083713
##	[34,]	-1.5575386481941	-0.1852792823878	1.0071580182159	0.4063835315995
##	[35,]	NA	-2.5678740857703	NA	-0.1938014672629
##	[36,]	NA	-0.0401860219945	-0.6572160766444	1.5257118900436
##	[37,]	0.0276906558837	-2.9394779771242	-0.5317575371819	0.3949348976943
##	[38,]	-0.2885488136705	-1.3175968243461	NA	-0.3506332840465
##	[39,]	0.3778559541086	-2.1849915790332	-1.5761314539574	-0.8439902033106
##	[40,]	-0.0762589931945	0.9593450982556	-0.6751489667826	-0.9644735215346
##	[41,]	1.5071417989857	-0.4459843981896	1.0047487937310	NA
##	[42,]	-0.4310686102181	-0.2902920874846	NA	0.8704371540353
##	[43,]	-0.2445272011697	-1.0564850611940	NA	-0.1998771275654
##	[44,]	0.2561751207073	-0.1537799694872	0.5493601487932	-0.1357923318738
##	[45,]	-0.1411219237688	NA	-0.5074197596658	NA
##	[46,]	0.1562024625516	NA	-0.1850852482804	-0.1383592244822
##	[47,]	-0.6722207256422	-1.4475008244096	-0.2452667608647	-1.4337429087506
##	[48,]	0.2782209360159	NA	-0.9437009300900	0.2199454686993
##	[49,]	-0.2382879887698	0.9315921064055	0.0431634823212	-1.7617884045605
##	[50,]	-0.1735921919935	-0.7015688771457	NA	-2.5469548616161
##	[51,]	NA	NA	NA	-2.1383735915834
##	[52,]	NA	NA	NA	NA

##	[53,]	NA	-1.0934051114175	0.0878656712784	NA
##	[54,]	-0.8450882668551	0.0141454570069	NA	-0.4818465261373
##	[55,]	NA	-1.2237049688912	1.1437480343884	NA
##	[56,]	-0.5121299422345	-0.0355225904059	-1.5513254901745	-0.4021447799467
##	[57,]	-1.0218882547428	1.4959037232247	-0.6677291210783	-0.0723874611629
##	[58,]	0.9328311270627	-1.2042351662511	0.2903387786570	1.0865850753405
##	[59,]	0.5208068110173	NA	-0.9039100364676	0.9348708704923
##	[60,]	-0.9837521189305	1.3176066348385	0.3861396118779	0.4683105821997
##	[61,]	NA	1.2870755084928	-0.9344226154941	0.1211203575050
##	[62,]	0.6361339549281	NA	0.2705584456686	0.0137127635722
##	[63,]	0.6280911385818	0.3145456524800	-0.7608241836748	-1.0077282088140
##	[64,]	0.0831905217018	-1.5929620787407	0.2356503743351	0.3349068010250
##	[65,]	NA	-0.7252291429427	NA	1.7607785721054
##	[66,]	NA	NA	0.3501229728008	1.2428231923625
##	[67,]	0.4430248463985	0.8627959299112	-1.2862774747571	-0.8784637931831
##	[68,]	-0.3104101417947	-0.5602475338601	NA	NA
##	[69,]	NA	-1.3035137453789	-1.5139965863313	0.6338349453710
##	[70,]	-1.5741311513249	NA	-0.3430262385574	NA
##	[71,]	-0.4743896636838	0.0092518556915	NA	NA
##	[72,]	NA	NA	0.0968218294183	-0.8701698433606
##	[73,]	NA	NA	0.1422688096794	1.1885515963839
##	[74,]	-0.4804171738093	1.3944554445459	-0.4069283377604	-0.3215802796092
##	[75,]	0.8991637973122	1.9833490239068	-1.1587692842278	0.6996201822907
##	[76,]	NA	0.9549391527849	NA	-1.0862161419737
##	[77,]	0.0088348847773	0.2464040937701	-0.4427977931669	NA
##	[78,]	-0.5048077898604	0.8555998647022	-1.0203425810515	NA
##	[79,]	NA	NA	-1.1178462963061	0.9238560429351
##	[80,]	1.6969099311809	NA	0.5646500380599	-0.4439315661447
##	[81,]	0.9308813641720	1.5786597972567	NA	NA
##	[82,]	0.5460231815188	NA	0.3036588267848	0.9964018290818
##	[83,]	-0.2919143482756	NA	-0.6365858022284	NA
##	[84,]	-0.9689295262352	NA	-0.3899323228110	-0.9649904820752
##	[85,]	NA	NA	NA	NA
##	[86,]	NA	0.9747410977842	NA	-0.2526506109668
##	[87,]	NA	-0.8899494534966	-0.8554096895324	NA
##	[88,]	0.1792312629008	-0.7280662343915	1.9614832475848	-0.6842923459731
##	[89,]	0.7739861566420	NA	NA	-0.4311274625405
##	[90,]	-0.6163161726414	0.1332652963238	0.6085950257275	0.5197900827843
##	[91,]	-0.2108690941307	-0.4646043920333	-1.2499786762597	1.3408480164855
##	[92,]	-0.9733636439385	NA	NA	-1.5549149464378
##	[93,]	1.6638641744822	-0.9163291206983	NA	-1.2160636403012
##	[94,]	NA	NA	-0.5620493444720	NA
##	[95,]	0.5508263417593	NA	NA	NA
##	[96,]	-0.4852907134354	NA	2.3027895134029	0.2269424518378
##	[97,]	0.6939224063529	-1.8836650128020	NA	-0.6337011963009
##	[98,]	0.8204268325878	-1.8481058473116	NA	-1.1776720006959
##	[99,]	-1.1650012760857	-1.7488782634403	0.5417492618967	0.9582009054407
##	[100,]	1.2141700548112	NA	-0.0486968790435	-0.0721808218484
##		[,45]	[,46]	[,47]	[,48]
##	[1,]	NA	NA	NA	0.304508361712

##	[2,]	NA	0.237510642457	0.4411659160403	NA
##	[3,]	0.708072726658	-0.325126430427	-1.6852132824636	0.486327396230
##	[4,]	0.803238558963	NA	0.9441871780494	0.299598856037
##	[5,]	0.243397462721	NA	-0.6308236171403	-0.956517642217
##	[6,]	0.146561934468	NA	-1.5336685679968	NA
##	[7,]	0.746517151355	1.131382201689	1.9777362844827	1.327217809813
##	[8,]	-0.157844495925	-1.858034583656	NA	0.142715326207
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##	[11,]	-1.665822593466	-0.560033069909	-0.8240719584389	NA
##	[12,]	-0.994485564053	-0.883058163959	NA	-0.198026931549
##	[13,]	NA	-0.180556459788	1.0900683038083	NA
##	[14,]	NA	NA	1.0604063770701	0.181390437075
##	[15,]	NA	0.583540721872	-1.5015707353052	-0.068337908553
##	[16,]	1.330436777233	-0.706755499662	1.5668844067823	0.267620959513
##	[17,]	-0.633516242121	-0.419816683316	1.1538555981378	0.263561539084
##	[18,]	-0.604656273572	-1.430639063109	NA	1.328097133727
##	[19,]	-1.580622119233	-1.000704198116	NA	NA
##	[20,]	0.972502573268	NA	NA	-0.361441713003
##	[21,]	NA	NA	NA	0.876016563117
##	[22,]	0.198949310159	-1.255062270808	-0.5573495867864	0.355361146829
##	[23,]	0.755327182764	0.577170712975	-0.2241586992651	1.919727429175
##	[24,]	0.565613514682	NA	1.1808288704190	NA
##	[25,]	-1.677850444921	0.068831548846	-0.0552056751775	-1.464378329796
##	[26,]	NA	NA	NA	1.850413919865
##	[27,]	0.654399465506	-0.674006308832	NA	-0.598949828993
##	[28,]	0.338572858845	1.601929264688	NA	1.066523677676
##	[29,]	2.029580041026	0.543013810005	0.9837441810448	-0.247693613730
##	[30,]	0.957891567623	-0.211920116343	0.8567584649757	NA
##	[31,]	-0.053828177718	0.868830348045	0.0745699131727	NA
##	[32,]	-0.439238825645	NA	-2.1452780317020	NA
##	[33,]	NA	0.504094661334	-0.9393395455761	NA
##	[34,]	-1.722539286790	0.815242202065	0.7082660664646	NA
##	[35,]	1.183298512705	-0.990023735528	NA	0.195719702498
##	[36,]	-0.350671772406	0.278605911000	-1.9602703502830	NA
##	[37,]	0.039632882490	-0.446536788406	NA	NA
##	[38,]	2.027912827222	-1.378342561180	-1.2695840257416	1.317696792548
##	[39,]	1.233034129487	1.002205763657	-0.4716113566452	-0.040592245595
##	[40,]	NA	-0.174479232385	0.7252563828378	0.617995944536
##	[41,]	-0.489213563529	-1.502775201925	0.8217033600760	0.313819889316
##	[42,]	-0.172412561533	-1.887924719303	NA	NA
##	[43,]	-1.199949789368	-0.325947628641	-0.1313205863920	0.122580397039
##	[44,]	NA	NA	NA	NA
##	[45,]	-0.386700855136	1.160438359907	NA	-1.146784505673
##	[46,]	-0.182903261355	-1.397161763755	0.2187846867386	-0.825356317347
##	[47,]	-0.038526636623	NA	NA	NA
##	[48,]	-1.388190963402	-0.427891616048	NA	-1.222924572412
##	[49,]	-0.567729276788	-0.674932935990	0.7895379134591	0.443976015935
##	[50,]	-0.636298630805	NA	NA	-1.122851322530
##	[51,]	NA	NA	0.0092939388943	0.835297535919

##	[52,]	-1.799492811970	0.046292771215	NA	-0.652423041427
##	[53,]	-0.851927202512	0.516086000486	0.6183434376371	0.669011675250
##	[54,]	-0.866784595795	-0.682577646500	1.1583743832709	-0.161658697362
##	[55,]	NA	NA	0.0808891680985	NA
##	[56,]	NA	-0.719019225859	NA	0.170822014347
##	[57,]	NA	-0.719894950229	0.6172330578494	-1.168281056907
##	[58,]	-0.683249617217	-2.076528035493	1.8648709867608	NA
##	[59,]	NA	-0.581528202057	NA	0.470364152544
##	[60,]	-1.135402268873	NA	-0.3867416081196	NA
##	[61,]	0.373753985884	1.556176838183	0.9111662029722	-0.830949433471
##	[62,]	NA	0.159411198212	-0.0689201206358	-1.103125635724
##	[63,]	-0.762254789381	-0.693179113305	0.0503126496305	0.532659567489
##	[64,]	NA	-0.320500033323	NA	0.959658225382
##	[65,]	0.400335943119	0.965084478277	1.2292147984046	NA
##	[66,]	-0.090628333004	NA	0.6028906936285	-0.508909435482
##	[67,]	NA	0.587201721475	NA	NA
##	[68,]	0.295624419544	-1.073006880854	0.0501785292224	0.452331226888
##	[69,]	NA	-0.079804854215	-1.2125524572282	NA
##	[70,]	-1.419868785171	NA	-0.5154879140764	NA
##	[71,]	NA	0.017392789528	NA	0.985378190309
##	[72,]	-1.081996829230	-0.600579258169	1.7667257984211	NA
##	[73,]	1.288312117129	1.089248902646	-1.1678116972491	NA
##	[74,]	0.314000778918	0.336680532143	0.8711794392259	-0.153064596257
##	[75,]	-0.884568948684	-0.430989754234	1.6747325862931	-0.993218308838
##	[76,]	NA	-1.171117254894	NA	1.452619428900
##	[77,]	-0.377113856368	0.728695366094	-1.4501658576076	-0.655745223565
##	[78,]	-1.317064075999	0.230505064121	0.9257647026105	NA
##	[79,]	-0.596053581167	NA	NA	-1.117535959549
##	[80,]	0.848865632190	1.183511275917	0.8763066643372	-0.909210885645
##	[81,]	-0.344217348825	-0.501939601126	-1.2413514422387	NA
##	[82,]	NA	NA	0.8631466006388	NA
##	[83,]	NA	-0.671481586715	NA	NA
##	[84,]	-0.452077305552	-0.610074994118	-0.0019271471920	NA
##	[85,]	NA	-0.192744841739	NA	-0.843388284589
##	[86,]	0.816587455921	0.172374523647	1.0315145162489	-0.928168217914
##	[87,]	-0.818998868434	NA	-1.0132529709459	NA
##	[88,]	NA	-0.748575923523	2.0539784263626	NA
##	[89,]	-0.663624924742	1.341591005140	-1.2537151198880	1.879354967273
##	[90,]	-0.600636408446	1.113827214915	-0.1145654525441	0.819730341931
##	[91,]	1.116765626107	0.242720930362	-0.3161166105381	-0.245859620641
##	[92,]	NA	0.434742931239	0.2018413025485	-2.352640542717
##	[93,]	1.417658158600	0.852163790977	-0.7030856195332	-0.919471168892
##	[94,]	0.412333072903	-0.749432952661	-1.3598135826701	0.716990334733
##	[95,]	1.131516745625	NA	-0.5455852232133	0.150932071170
##	[96,]	1.141145181862	NA	-0.2211776968277	0.844700885110
##	[97,]	NA	-0.617116483469	0.4404801883992	NA
##	[98,]	0.035340917179	NA	-0.3267598066897	NA
##	[99,]	0.839193667631	NA	NA	0.747507111932
##	[100,]	-0.720128562487	NA	0.9477700112435	-2.288731340372
##		[,49]	[,50]	[,51]	[,52]

##	[1,]	-2.109808389062	-0.707773399792	-0.185417948766	-1.2609807704915
##	[2,]	0.193810733931	0.823153029321	-0.936640464571	1.1158433956242
##	[3,]	-1.605502819834	NA	NA	-1.5434168056796
##	[4,]	1.729149278367	NA	NA	0.6293408004771
##	[5,]	NA	-1.565218436628	1.975830722507	1.1742886440851
##	[6,]	0.239987143850	-0.039517401472	-0.111795073740	-0.9134237873120
##	[7,]	NA	-1.490381133065	NA	-1.6926604491648
##	[8,]	-0.444319300336	0.297467403939	0.585655390680	0.2611262548556
##	[9,]	-0.188730581687	-0.113235407611	NA	0.7994999577966
##	[10,]	1.843405860775	NA	NA	NA
##	[11,]	2.465599277614	NA	0.441758567673	NA
##	[12,]	0.096081591969	-1.811346131235	1.488591210617	NA
##	[13,]	-0.010322812186	NA	1.955105160121	NA
##	[14,]	0.674633695533	-0.939843077779	NA	1.0325588608136
##	[15,]	-0.678963425331	-0.515076391464	0.074199065894	0.9013873830273
##	[16,]	NA	NA	-0.208052714863	NA
##	[17,]	0.221285114075	NA	-1.029125098071	1.4357579193159
##	[18,]	NA	0.103124761849	-0.182612371631	1.1895064643521
##	[19,]	0.647154143814	-1.233661571986	NA	NA
##	[20,]	NA	-0.453994345362	-2.290550243666	NA
##	[21,]	-0.320924113562	-0.589204515053	-0.432581666532	-0.7137158493277
##	[22,]	0.312643114166	NA	-0.956788789586	-1.8090752895049
##	[23,]	-0.114740977271	-1.024453448117	1.564535462174	-0.1621962677467
##	[24,]	1.512777589013	0.016689525284	-1.384374918885	1.3407978160420
##	[25,]	-0.716102215722	-0.396209601984	0.104889355965	NA
##	[26,]	NA	NA	NA	NA
##	[27,]	1.593705555735	0.903281361762	0.371648973732	NA
##	[28,]	-2.383917221888	1.482943184348	1.508654528008	1.1261790848675
##	[29,]	-0.596701262616	0.754862928127	-1.119858268024	NA
##	[30,]	2.573262254501	-0.150310632695	NA	1.1309008278306
##	[31,]	0.347745412506	0.503655710633	NA	1.4507251128158
##	[32,]	-1.900442673150	-0.248273201723	NA	NA
##	[33,]	-0.921587917244	0.337811458693	-0.154739925627	NA
##	[34,]	NA	-0.589952278968	NA	-0.0333801473413
##	[35,]	1.283015334440	NA	-0.059177019070	NA
##	[36,]	-1.368224319642	NA	NA	-0.6691367314480
##	[37,]	-0.098774134321	-2.372188997476	-0.336011288434	-1.0687954873212
##	[38,]	0.792590087465	NA	1.166246794286	-0.2855592703402
##	[39,]	0.727892099189	-0.047155661523	-0.254655086049	0.0683450610064
##	[40,]	1.566302287462	-0.819539101313	1.006291735345	0.1211283930681
##	[41,]	1.920494646220	-0.341664373758	0.321558583624	-1.1258211494112
##	[42,]	-0.321801617306	0.890743808413	-0.254866695380	0.4216614769417
##	[43,]	0.077261219366	-1.104248241702	0.537493850056	-0.5164944577236
##	[44,]	-0.459868985588	0.383181811317	NA	1.5075951577290
##	[45,]	NA	0.872665365055	-0.764656459530	-0.3622003321461
##	[46,]	NA	-0.389457154282	-0.558682990712	NA
##	[47,]	NA	-0.438680856025	0.679827678987	NA
##	[48,]	0.915531814664	1.040469141222	1.524072800479	1.2028589115386
##	[49,]	-0.426384653379	-0.086143453295	1.417473922460	NA
##	[50,]	-0.309723462953	0.824411970444	0.170410975563	NA

##	[51,]	NA	NA	-1.132285530736	1.7130190964921
##	[52,]	NA	-0.502606111826	NA	-0.6883333863611
##	[53,]	1.369665222529	0.111945022975	0.034579124595	0.2561227713497
##	[54,]	NA	-0.368293290095	-0.226522507040	1.6003582406573
##	[55,]	-0.075263617818	NA	0.408002470966	-0.9839580443705
##	[56,]	0.524313172128	1.444700569715	NA	0.4012249182744
##	[57,]	0.910539195243	1.188139336080	0.105194171473	-1.7488058143914
##	[58,]	NA	-0.983335377551	1.866158177134	1.3076238198613
##	[59,]	NA	-0.045567135032	NA	2.64444412135386
##	[60,]	0.540547554065	-1.984322127490	0.251270448053	-0.1290432737742
##	[61,]	-0.817439796505	-0.088234098806	1.108630837847	-0.0622017430963
##	[62,]	-1.441330664950	-0.528275909598	-1.563314497033	NA
##	[63,]	-0.444001043653	1.123513964483	NA	1.1521559805576
##	[64,]	-1.140278399598	1.550228488561	0.796281173154	NA
##	[65,]	NA	NA	-0.303571460920	0.3502921751955
##	[66,]	0.595795583687	1.932986612928	1.356630113121	-0.4200048046469
##	[67,]	2.344380969221	-1.250436992222	NA	0.0855778178737
##	[68,]	0.115931980211	0.222711723576	-0.240365525308	-1.3470570504484
##	[69,]	0.386110074594	1.004264123625	-1.791296793624	-0.0033784393939
##	[70,]	0.208250201483	-1.410271951506	-0.251530855561	1.5089052095295
##	[71,]	NA	NA	-0.643934619970	1.1234425843425
##	[72,]	NA	-0.471099648797	0.200853790123	0.1759210703444
##	[73,]	0.468165046965	-0.424196124923	NA	-1.1139389441242
##	[74,]	-2.303818756627	0.689705646473	0.214561544924	NA
##	[75,]	NA	0.580920905859	-0.344601184684	-0.6695535580931
##	[76,]	-2.686938339303	-0.991991536249	NA	-0.5101363950809
##	[77,]	NA	0.390186814120	NA	NA
##	[78,]	0.281927532465	-1.086500809988	NA	NA
##	[79,]	0.694504100856	0.665021021566	2.752519026860	NA
##	[80,]	-0.750957521591	NA	0.035733600440	0.7828200662689
##	[81,]	NA	-0.074573659798	-1.154121041808	NA
##	[82,]	-0.155915124411	-0.729040637888	NA	2.5722407921157
##	[83,]	1.203634711501	0.739551120345	NA	0.5188079423582
##	[84,]	-0.500437394590	0.169969638575	0.377769202450	NA
##	[85,]	1.828815821347	-0.488956581539	1.706039408139	NA
##	[86,]	NA	NA	1.793743489627	NA
##	[87,]	1.589917992159	0.525971011285	0.253692219807	NA
##	[88,]	-1.490550707179	-1.139911493900	-0.233732843173	-1.4758675360973
##	[89,]	-0.328503142740	0.551506619925	NA	0.8943956424504
##	[90,]	0.029657041343	NA	NA	NA
##	[91,]	0.308312516929	NA	0.613979144427	NA
##	[92,]	-0.776767932425	-0.963015508994	1.877331967578	NA
##	[93,]	0.254163552443	1.091632921039	-1.009817492378	NA
##	[94,]	-0.326799804620	NA	-1.620504794082	-1.2532937839305
##	[95,]	NA	NA	-0.170342077859	1.6391038246771
##	[96,]	NA	1.148713937515	0.074757143437	-1.3568734893671
##	[97,]	NA	0.231978994638	-1.414898575644	0.5132346779452
##	[98,]	NA	NA	-1.387835945546	-0.2566299199524
##	[99,]	-1.029325264800	NA	0.852310033920	-0.8330294987784
##	[100,]	NA	-0.060162866304	NA	0.0129563671773

##		[,53]	[,54]	[,55]	[,56]
##	[1,]	NA	0.9250022661491	0.6421656124651	NA
##	[2,]	-0.8695844188912	1.1940198885923	NA	NA
##	[3,]	0.8428170731478	-0.7296250714067	NA	-0.509898474634
##	[4,]	-0.2566353881486	NA	0.6369224912989	-0.041270158511
##	[5,]	0.3085610879118	-1.0573235857073	-0.7685698453187	1.301373345920
##	[6,]	-0.2670744745853	-0.1045639251422	0.7034160237622	0.851112293075
##	[7,]	-0.8217761058153	NA	0.1488896800298	-1.675085736674
##	[8,]	-1.2522073497470	1.3051481935190	0.0498227089872	NA
##	[9,]	-0.4076868598951	0.7249444019269	1.3819694015940	NA
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##	[11,]	NA	0.1703943482558	-1.2200549130964	NA
##	[12,]	-0.7819446014281	-0.5053297571353	-0.4858553464030	0.459593832484
##	[13,]	NA	-0.0557644985095	NA	0.449548917113
##	[14,]	NA	0.5405214681846	NA	-0.900605341049
##	[15,]	0.3198013764254	-0.4231775721363	NA	0.318796165106
##	[16,]	0.4630954925375	-0.4553739429200	-0.2352529283398	0.235507123887
##	[17,]	-0.0735330182623	0.2625050295684	NA	NA
##	[18,]	NA	NA	NA	-1.751649510369
##	[19,]	-0.8177655460281	-0.1520722481360	NA	0.728181110259
##	[20,]	NA	-0.0736336472123	NA	-2.457200161249
##	[21,]	-0.8921881455060	-1.2407996889148	-1.5415440119355	0.573180065329
##	[22,]	-0.2240948440094	-0.1304082303781	NA	NA
##	[23,]	-0.9273856823586	-0.4324278606367	NA	-1.020260992019
##	[24,]	0.4836018495074	NA	-0.3220679035312	0.476269080240
##	[25,]	-0.0052889881749	1.2258106848566	-0.6173207890052	NA
##	[26,]	-1.7387088750699	0.7966059540697	1.3726167706420	-1.485714757560
##	[27,]	0.7284950611444	0.0540196703670	-0.8870399940252	0.133784022149
##	[28,]	-0.1366070098926	0.3081290342151	NA	-1.082055781289
##	[29,]	-0.4970237362302	0.3758676387152	NA	1.162772021748
##	[30,]	-1.8061986679557	NA	-0.8150845796030	0.219671859559
##	[31,]	-0.0185583370662	NA	0.0059311011596	1.708184629661
##	[32,]	0.6758015487952	NA	NA	-0.515105337348
##	[33,]	-0.1172259901614	NA	NA	2.101028869609
##	[34,]	NA	0.5914607760011	NA	NA
##	[35,]	-0.4831583026337	0.0862347136687	1.0818526122302	NA
##	[36,]	0.4085944349990	-0.7070953747602	0.3255474432076	-0.759959412303
##	[37,]	NA	NA	NA	-0.612644236535
##	[38,]	1.2933938234016	-0.0998173652646	0.3869201713677	1.473910286622
##	[39,]	NA	-1.1093340405716	-0.8783981624533	-1.127918958180
##	[40,]	1.4721243150893	NA	NA	0.254301916618
##	[41,]	1.6754939557072	0.8221390648439	1.3415825968721	-0.306778038758
##	[42,]	-0.3915212159922	0.5626540592439	NA	-0.281227943735
##	[43,]	1.1087602908558	-0.5650535753169	-0.0991197532973	0.477739449658
##	[44,]	NA	1.8622992897572	NA	0.048397081132
##	[45,]	-1.3844664723278	0.0094457627237	0.3685803544565	1.091921284410
##	[46,]	NA	1.2625672672421	1.0674283459889	-0.562704083492
##	[47,]	1.3837450474497	1.3692685359451	NA	1.417401939391
##	[48,]	1.4186446544401	NA	NA	0.389422521641
##	[49,]	NA	NA	0.3916162916301	0.661559033694

##	[50,]	NA	NA	0.0581485882480	-1.461911059367
##	[51,]	0.7132740780887	NA	-1.2339456179424	-0.217396475556
##	[52,]	NA	-0.7878961638134	-0.1147427576244	0.086476288348
##	[53,]	-1.3255860135646	1.1144405824156	NA	-0.255532765811
##	[54,]	0.1871096738514	NA	-1.3569789085987	-1.819577959874
##	[55,]	NA	0.7339746326667	0.1367126214647	1.924348609006
##	[56,]	1.8019991595869	-0.2634001509835	NA	NA
##	[57,]	-0.8630335821342	NA	-0.7215359617267	-0.255004511724
##	[58,]	-0.6592469935824	0.4475748003491	-0.2044846521729	NA
##	[59,]	-2.5367583867708	-0.1860417269538	-0.7257728098808	NA
##	[60,]	1.8623307422205	0.9155118313218	NA	NA
##	[61,]	-1.3142495748792	NA	NA	0.145662021669
##	[62,]	1.4445763892671	-0.0040171605167	1.9444591388424	0.277538808480
##	[63,]	NA	NA	NA	NA
##	[64,]	-1.2952426468589	NA	-0.3300168537640	-1.550381071788
##	[65,]	0.8180167786739	0.1284399513879	NA	-0.238751542762
##	[66,]	-0.2155576289096	0.5215877948947	NA	NA
##	[67,]	NA	0.2692340818245	NA	-0.377336067857
##	[68,]	-1.3266552523460	NA	-1.3261746204683	-2.638033478357
##	[69,]	NA	-0.3298795848621	-0.7040655295618	0.012908007798
##	[70,]	0.3019624409374	1.2672442063524	0.7642162168163	-0.221286816387
##	[71,]	0.9747363657705	-0.3995677815712	NA	0.473972174019
##	[72,]	NA	-0.5921945097035	-0.7650987067795	-0.840638548963
##	[73,]	NA	0.5157813033482	-0.3423600690783	0.907331839523
##	[74,]	-1.2899104618630	0.8974203838144	-1.4732147022229	-1.824259055028
##	[75,]	-0.1348110179993	NA	2.3077377765525	1.462076882029
##	[76,]	-1.2614530741538	0.3503974859612	1.6344309608702	NA
##	[77,]	-0.1332586667794	-0.2122767036527	-1.6933588379103	NA
##	[78,]	-0.9853832476037	0.3899158107680	NA	-0.442032526184
##	[79,]	-1.4146464415343	NA	0.1869055332323	-0.347763452145
##	[80,]	-3.3427303305325	NA	NA	1.940772263258
##	[81,]	-0.8760510940818	-0.3653241335534	-0.4705615494444	-0.109864186417
##	[82,]	-0.6649254285231	0.3127705362422	NA	-0.070090092390
##	[83,]	NA	NA	-0.5552660310502	1.995223450540
##	[84,]	NA	-1.7285345589302	-0.3901496317532	0.270149377648
##	[85,]	-3.1830560282809	1.3545144302012	0.3608154333662	NA
##	[86,]	0.6353782153152	-1.0035885648324	NA	NA
##	[87,]	-0.2073407669518	0.4335541305910	-1.4100046871030	-0.511818936716
##	[88,]	0.1455353879367	1.5663899346815	0.8664247211269	-1.721118524740
##	[89,]	NA	-0.6368822402050	NA	0.027930709707
##	[90,]	0.5064400450454	-0.0673945945368	1.2190312100633	1.037500960123
##	[91,]	NA	NA	NA	-0.163531927483
##	[92,]	0.3652393501629	0.6061306525306	NA	-0.613720524982
##	[93,]	-0.0397487332340	NA	-0.5761529360433	-1.339402310000
##	[94,]	-0.6636082726982	-1.0296625403654	0.8304881613590	NA
##	[95,]	-0.0439429017851	-0.3091456839215	NA	-1.032838181326
##	[96,]	-0.3008851885017	-0.3976695882421	1.1576387802493	-0.992986110849
##	[97,]	-1.0869865174632	NA	NA	NA
##	[98,]	NA	0.0737900647933	0.4725100824572	NA
##	[99,]	-1.3310071466432	-1.4144200626490	NA	-0.340352901630

## [100,]	NA	-0.3141298295440	-2.3729551483732	NA
##	[,57]	[,58]	[,59]	[,60]
## [1,]	NA	NA	NA	-0.544988136780
## [2,]	-2.147482859257	0.207500337605	0.70970971810555	NA
## [3,]	NA	0.623089000743	NA	0.880752571759
## [4,]	0.359662971401	-0.231462132952	-0.91214914162691	-0.380443548683
## [5,]	NA	0.095401170474	1.25579515941417	0.035914773596
## [6,]	NA	-0.484924379630	1.06631618354725	0.926603965272
## [7,]	0.239328799935	0.517636223553	NA	0.042462277449
## [8,]	-0.027738044553	-1.500275584412	0.69442409672613	-0.091486621381
## [9,]	NA	NA	1.86538860974952	-1.460343732958
## [10,]	0.342725099733	-0.343751119471	1.14282229655100	-1.408493363148
## [11,]	-0.089493809864	1.207144438990	-0.73241763055851	0.562255769140
## [12,]	-1.015843260941	0.674120647367	NA	0.151756163892
## [13,]	-0.293711470062	NA	NA	0.159748157712
## [14,]	-0.133465716573	-1.900202742073	NA	0.355226230992
## [15,]	NA	0.165200493540	1.18601220548145	-0.520790580073
## [16,]	1.039115352067	NA	NA	NA
## [17,]	1.129131023573	1.141078600779	-0.45605064125019	NA
## [18,]	0.560553772227	1.480991143201	1.38323000423286	NA
## [19,]	0.712571426640	NA	0.31553455226359	0.612893180522
## [20,]	-0.458376503388	-0.182912878236	-0.52424329101582	NA
## [21,]	NA	-0.040436172341	NA	0.309352009456
## [22,]	NA	-0.200319357719	0.03473971309523	-0.401417761604
## [23,]	-0.235997472006	NA	1.64659644866200	-0.717921219134
## [24,]	NA	NA	0.75625528305665	NA
## [25,]	0.787111683320	NA	-0.13017890167712	-0.347335254236
## [26,]	-0.186687125139	NA	-0.25779021744624	NA
## [27,]	0.869478422189	1.891390982313	NA	-1.358213705328
## [28,]	0.661095943295	-0.498198885554	NA	2.429598789197
## [29,]	-0.390410818527	0.614771080326	0.13373807799326	-0.558292066518
## [30,]	-1.041323032795	NA	1.01903574623215	-0.298930956519
## [31,]	0.119656799993	0.297171854054	-0.08022591155939	NA
## [32,]	0.080136540776	0.563424852286	-0.58013075443778	NA
## [33,]	NA	-1.043962255409	-0.04818013385476	1.109120286723
## [34,]	NA	NA	-1.09762354781117	NA
## [35,]	NA	1.873384172857	-0.56061186481640	0.635334993792
## [36,]	0.033272402670	-1.274986587485	NA	NA
## [37,]	-0.194911057165	NA	1.60347778217781	-1.386554859418
## [38,]	2.410674671058	1.033836895714	-0.24050234956996	-0.121060640314
## [39,]	-0.829560610587	-0.845448081673	1.16621704070321	-1.105834388202
## [40,]	-0.632844560412	-1.409818296027	0.93102346118038	NA
## [41,]	-0.666584281552	0.834742329062	-0.84849840190211	0.880093424821
## [42,]	2.597141043567	-0.419709217519	-1.12053210988292	-1.554262853216
## [43,]	-0.355321318329	NA	-0.08854380049581	0.647724588959
## [44,]	0.453449136326	-1.038301097210	NA	0.551461639231
## [45,]	-0.396143327228	0.868504873940	0.69854563594081	0.244714446556
## [46,]	-0.104374811743	0.534526136809	1.75516318617874	NA
## [47,]	-1.426561377216	0.160552412421	NA	-0.323859352124
## [48,]	0.123237436175	NA	0.05316341227265	NA

##	[49,]	-0.135838600437	-1.634327099662	-0.08089748994578	1.329938983331
##	[50,]	-0.031449792825	NA	0.36155460236056	-0.522390971148
##	[51,]	-1.040200874438	NA	-0.21665851054473	NA
##	[52,]	-0.597430066880	1.864804646806	-0.78183516959162	NA
##	[53,]	NA	0.037855586665	-0.04862341655366	-1.679849929030
##	[54,]	0.096051794727	-1.055981951422	-2.33223579161559	-0.765209717856
##	[55,]	NA	0.091054953729	1.13662388313100	1.056928057027
##	[56,]	-0.718245792836	-1.799672497260	0.61633720894083	-1.219556750197
##	[57,]	0.969510149887	0.698794906824	NA	-1.185622137521
##	[58,]	-0.292615105928	NA	1.70329661594809	-0.375510243392
##	[59,]	0.193550981121	0.097220859761	0.14436109259771	-2.633583218357
##	[60,]	NA	NA	-0.81225133363873	-1.309280326782
##	[61,]	-1.535294840977	-0.495175948870	NA	1.552356976299
##	[62,]	-0.219575953481	NA	-1.92050440342056	-2.824754566067
##	[63,]	-0.056925658407	NA	0.62223953649912	0.921664954919
##	[64,]	-0.272162685386	-0.408943938535	NA	1.578272643639
##	[65,]	NA	1.257659380706	-1.97509625915709	NA
##	[66,]	-0.664985037668	0.658129754160	-0.01183390766711	NA
##	[67,]	1.319101205734	0.684921676334	-0.19247979246631	0.313773661008
##	[68,]	-0.860972966182	-1.633205765606	NA	0.902732020011
##	[69,]	NA	-0.276587401197	-0.01324512314993	-2.072354574275
##	[70,]	0.405766563023	NA	NA	0.782312993723
##	[71,]	1.113695296033	0.117167823452	-0.57650685133163	0.414563785012
##	[72,]	-0.238590677799	NA	0.27296928830994	0.176788407385
##	[73,]	-0.371477050324	NA	0.68906568009932	1.313201112058
##	[74,]	NA	-0.928885448689	0.57995106116842	-0.951962375870
##	[75,]	NA	NA	1.30564606159131	NA
##	[76,]	-0.280591937494	NA	-0.00037560687548	-1.375538758968
##	[77,]	0.942021435420	-0.762541763305	0.68788550485996	-0.308277710456
##	[78,]	1.741707286274	1.319162970672	0.72451061808706	NA
##	[79,]	NA	2.470662009035	NA	NA
##	[80,]	0.184946820360	-0.383004034270	NA	1.258879839675
##	[81,]	0.488128277725	1.192312674866	NA	-0.307882268157
##	[82,]	-0.642086058068	1.061905720503	NA	-0.116381157186
##	[83,]	0.277625292953	0.732503567066	NA	NA
##	[84,]	NA	0.121329071233	NA	-0.345932756589
##	[85,]	1.680636962045	-0.819726378952	NA	-0.572937144193
##	[86,]	-0.244649988742	0.491201818072	1.98236656708824	-0.485746829856
##	[87,]	0.025609966854	-1.388999651649	-1.07197952890749	NA
##	[88,]	0.803441085637	NA	NA	NA
##	[89,]	1.640396555897	0.877714134975	NA	-0.080534113367
##	[90,]	-0.819525767422	-0.611134642059	NA	1.014543499659
##	[91,]	-0.343632817007	NA	2.07039803125899	-0.696720332253
##	[92,]	-0.666771547401	NA	-1.57545948242278	NA
##	[93,]	-0.031637786879	0.232805613033	0.37743342411600	0.304054720595
##	[94,]	-0.557590737043	NA	NA	1.022717510666
##	[95,]	0.506919323739	NA	NA	NA
##	[96,]	0.674288010397	-1.572359866765	0.97639282494992	1.017997412443
##	[97,]	-1.627099174044	-0.600653979489	-0.66319327531298	-0.426161501959
##	[98,]	0.384667280811	0.424179227740	-0.81651710380908	-0.086720476235

##	[99,]	NA	NA	NA	NA
##	[100,]	-0.239737828320	0.771580038831	NA	NA
##		[,61]	[,62]	[,63]	[,64]
##	[1,]	NA	0.711778792183	0.132579564256	0.887742378065
##	[2,]	NA	NA	1.927525836013	NA
##	[3,]	1.5958901801674	NA	0.999829829765	NA
##	[4,]	NA	0.529957713007	NA	-1.892855819880
##	[5,]	NA	-0.825019109338	0.814066736458	0.221988560294
##	[6,]	0.9092951625511	-0.390318429374	-1.685338815551	NA
##	[7,]	-1.9449784023221	NA	0.418656027532	NA
##	[8,]	1.7607492948953	NA	1.211782557743	-1.004051788514
##	[9,]	-1.0866042265304	0.228851777544	0.272935378898	0.834676966301
##	[10,]	0.1404314945136	-1.318041565139	0.218527170948	1.665990437452
##	[11,]	-0.7528712935040	NA	1.735963916518	NA
##	[12,]	NA	NA	0.644673978608	0.091411062225
##	[13,]	0.2113593402023	-0.914817591133	NA	NA
##	[14,]	NA	0.100922683672	NA	1.819550506449
##	[15,]	0.4111664048128	NA	0.088411571658	0.920978422650
##	[16,]	-0.1502605898384	NA	1.217639530353	-0.225979509306
##	[17,]	0.4016166863371	NA	0.638065386114	0.786247419116
##	[18,]	0.4603724886802	-0.315608911656	NA	0.313334443060
##	[19,]	-0.6315627319020	-0.409527595850	1.094046400111	NA
##	[20,]	-0.8030435473862	1.203026037996	-0.839697856899	NA
##	[21,]	NA	-0.017474678897	-0.081020330713	-0.105593984648
##	[22,]	NA	0.349965311192	NA	1.762429060849
##	[23,]	NA	0.587247808610	-0.156480521063	NA
##	[24,]	NA	NA	-1.329731183715	0.594219829348
##	[25,]	0.8721030188673	NA	NA	0.129445162364
##	[26,]	-0.1653764011707	1.821765438232	0.329415715229	-0.168314097857
##	[27,]	-2.2374232193558	NA	NA	0.469980672901
##	[28,]	NA	NA	NA	-0.184523219722
##	[29,]	-0.4520315295230	NA	-0.602335326769	0.934492577372
##	[30,]	NA	NA	1.432836791295	0.809987084804
##	[31,]	-1.1119079415889	-0.517178334171	0.439171422965	1.043789842906
##	[32,]	0.1897187192544	NA	-0.996172012004	-0.354357288689
##	[33,]	0.7096387970841	NA	-2.523579723063	0.991669634553
##	[34,]	NA	0.830555752074	0.684625241637	NA
##	[35,]	-0.5688150967900	NA	NA	0.407797764971
##	[36,]	NA	0.482707531895	-0.539291827386	0.250881021512
##	[37,]	0.0829304798951	-0.511258120482	-0.298011609665	-0.414652048498
##	[38,]	NA	0.451976710866	-0.767258055561	0.719519428378
##	[39,]	NA	-0.625505231180	-1.237804722276	NA
##	[40,]	0.7192904557614	-0.862994010268	-0.890837408607	-1.070249629386
##	[41,]	0.3882128196656	NA	1.619214863872	-1.936449765207
##	[42,]	0.0583318294755	NA	NA	0.734577594167
##	[43,]	NA	NA	NA	0.083336493449
##	[44,]	0.6016237165253	0.333864237128	1.360932078485	-0.397812544368
##	[45,]	-0.5999507753560	NA	NA	-0.303621597871
##	[46,]	0.7597384648099	-2.029431748554	NA	-1.792867631789
##	[47,]	0.6004547270569	NA	NA	-0.479675004370

##	[48,]	NA	-0.866688757595	2.332287291252	0.495358084737
##	[49,]	-1.6047992721488	NA	NA	0.343120050811
##	[50,]	NA	0.179212740117	0.593677766055	NA
##	[51,]	0.7879675101571	NA	-0.684295721931	-0.577656052594
##	[52,]	-1.2394432270120	-1.237253075841	NA	2.418158217022
##	[53,]	NA	0.074913141113	1.703983551883	-0.240831652427
##	[54,]	-0.0013495649656	-0.598806375206	-0.472611938109	NA
##	[55,]	NA	0.128848971215	-0.417668209953	-0.342163027093
##	[56,]	0.2146672229807	NA	-1.203849139353	-1.460657575128
##	[57,]	-0.8437462849403	-0.618504442597	0.354125598868	-1.121962107664
##	[58,]	NA	-1.482893460346	-2.048534349300	-0.308454302448
##	[59,]	-1.6844651380007	-1.017089108845	-0.017447435232	-0.507293003972
##	[60,]	-0.2927263224202	-0.441660847615	NA	1.683894625783
##	[61,]	-0.5936227409548	NA	1.219118757020	-0.481201738534
##	[62,]	NA	NA	-0.500495847095	NA
##	[63,]	-0.4459877268773	-0.238246929332	0.582609499249	-0.511526892194
##	[64,]	NA	1.254770856769	NA	0.519666072929
##	[65,]	-0.9295175814409	0.955720973496	-1.968091741841	0.604184412182
##	[66,]	NA	0.850402550094	-0.271358732038	-1.694632669011
##	[67,]	0.4513238425996	0.237570408537	NA	-1.449350764505
##	[68,]	NA	NA	-0.543892939967	0.329340623046
##	[69,]	NA	0.989811130192	0.236562268746	0.647282066927
##	[70,]	NA	-1.667904429690	NA	-1.842494993384
##	[71,]	-1.7010993350441	0.240856900017	-1.504387225914	0.029699891828
##	[72,]	NA	-0.583872303386	1.310725628888	0.684014024447
##	[73,]	1.7906518181795	-2.357995801954	0.943557964964	NA
##	[74,]	NA	-0.683411375206	NA	-0.288073468865
##	[75,]	-0.5019308732896	-1.305031923798	-0.192180921666	NA
##	[76,]	-0.6421824533286	1.085709999590	1.421738832138	NA
##	[77,]	NA	NA	-0.164800343968	NA
##	[78,]	NA	NA	-1.144762802566	-0.097521655658
##	[79,]	-1.2949323701411	0.463004725087	-0.501811632245	-0.836390533570
##	[80,]	0.1534837971106	-1.410028991761	0.241724250661	0.320225378616
##	[81,]	NA	-0.257257093129	NA	-0.514874799083
##	[82,]	NA	0.804129553711	0.762918759204	NA
##	[83,]	-0.3822119587860	-0.127002412076	-0.158561623721	-1.220512310899
##	[84,]	NA	-0.088537879921	0.119903830262	NA
##	[85,]	-1.9170236685201	NA	-1.703592401675	0.765129422256
##	[86,]	-0.6872167702219	-1.245630877565	0.606196441893	0.436512918425
##	[87,]	1.0460782101116	NA	NA	NA
##	[88,]	-0.1099012491618	-0.091572689450	-0.761793290280	-0.431781782616
##	[89,]	-0.2627133998610	NA	0.713111670060	0.140091684124
##	[90,]	-0.0113609867264	-1.272179746956	NA	NA
##	[91,]	-1.0863981766485	-1.872574283340	0.402668722496	2.042239227872
##	[92,]	NA	0.072150594727	0.854027838624	NA
##	[93,]	NA	-0.822532625027	-1.813314111581	-0.279469537069
##	[94,]	0.4477497140792	-1.121438335339	0.352785374229	1.840662888993
##	[95,]	NA	-0.175016296687	NA	NA
##	[96,]	-1.2803153346273	1.774592820928	0.130617269935	NA
##	[97,]	NA	NA	0.565233136415	NA

##	[98,]	0.4329866963205	-0.734435103328	1.217765001392	-0.120792586287
##	[99,]	0.3864651017152	2.094381562217	1.016985518622	NA
##	[100,]	-0.6948552934979	-0.939902046268	-1.178429122037	0.908010672726
##		[,65]	[,66]	[,67]	[,68]
##	[1,]	NA	NA	NA	1.238460898800
##	[2,]	0.731401321437	0.4632762420609	-1.4444640357691	0.303405826069
##	[3,]	0.417598406470	NA	2.0679249576085	NA
##	[4,]	0.361294591709	1.1208651142760	NA	NA
##	[5,]	-0.547649367107	0.5891034872703	-0.5075757543319	NA
##	[6,]	-1.176463649642	0.2262386157358	-1.6362729111589	0.376520054711
##	[7,]	0.320209350554	-0.2095739150598	-0.6408832125650	1.167574023043
##	[8,]	0.505100462358	0.5509753968866	-2.0572434272461	0.058052219147
##	[9,]	NA	2.1501363325039	NA	-0.040287774550
##	[10,]	-0.736733114964	-0.9198385538329	-0.9759327906229	NA
##	[11,]	0.554233170068	0.3621479453311	1.8244128690277	NA
##	[12,]	NA	NA	-0.8395646986602	-1.557106381420
##	[13,]	2.206892046633	-1.4636514816171	-0.4075352235446	-0.582852485374
##	[14,]	-0.661337662113	0.3358251687720	-1.3346283986722	NA
##	[15,]	-1.864049510698	0.1235845181181	-1.2159920116802	-0.192981426177
##	[16,]	-0.794169326623	NA	NA	-0.893126571936
##	[17,]	0.275787801869	-0.1753874983361	-0.5596529497353	-0.539804504911
##	[18,]	NA	0.2033231037169	-1.2344315707666	1.321240729146
##	[19,]	-0.506715375606	0.7548787341087	0.1542354472338	0.419906859408
##	[20,]	NA	NA	NA	0.144235285704
##	[21,]	-1.018739077121	-0.3981250943991	0.2535797995188	-0.312514030965
##	[22,]	NA	-1.1453903383433	-1.0907398976376	-0.867423860698
##	[23,]	1.464838914208	NA	NA	-0.150336532214
##	[24,]	1.015162273015	NA	NA	-0.928528945691
##	[25,]	-0.629067214326	NA	NA	-1.610099264272
##	[26,]	NA	-2.4258359851032	-0.6120610151847	NA
##	[27,]	0.938927568799	2.1597091071310	0.6738038999117	NA
##	[28,]	NA	-0.8593968997552	NA	-1.448123925054
##	[29,]	NA	NA	-1.1175117900739	-0.797075090119
##	[30,]	0.841736944899	NA	0.0854080595332	0.164105031761
##	[31,]	0.820592655163	-0.5695588028858	0.9740926850809	-1.155325344948
##	[32,]	-1.076455566245	-1.3005305276916	-0.0206864766910	-0.018703409060
##	[33,]	0.579802232725	NA	0.7817835181902	-0.649991423218
##	[34,]	1.462064690967	1.4311625304224	0.9253073067811	NA
##	[35,]	1.138144564070	0.8576596603715	NA	-1.499488198748
##	[36,]	-1.532867189304	0.1266585766059	0.2423513227885	NA
##	[37,]	1.089245210696	0.6096743965200	-0.4557288658185	NA
##	[38,]	-0.722131200996	NA	-1.1752500775160	0.686678608210
##	[39,]	0.585442631237	0.3954410110414	-0.2573206745708	-0.969799483595
##	[40,]	NA	NA	-0.3632553789951	-1.044586022535
##	[41,]	-1.235527805079	0.4308711160253	-0.1283191506813	1.031248792344
##	[42,]	1.834943356090	-0.3327186579381	NA	-0.330252472123
##	[43,]	NA	-0.2549883145802	0.0812570789549	-0.735621600085
##	[44,]	1.086963137620	NA	1.8704372520131	2.023439367530
##	[45,]	NA	0.7126064394366	-0.6417069600958	NA
##	[46,]	0.916898059300	-1.2238085456724	1.4745630202293	-0.787940186658

##	[47,]	-0.936876166013	NA	-0.6400153897759	-1.559379976329
##	[48,]	NA	-0.8675311090377	0.2044072744867	-0.337700897501
##	[49,]	-0.530557531624	NA	-0.0013780863408	0.022942254578
##	[50,]	0.252391190864	NA	-0.3471717423596	-0.136832890956
##	[51,]	-1.589549240745	NA	1.0714307247448	-0.227908614814
##	[52,]	NA	NA	1.7875023043771	0.151031990229
##	[53,]	0.062763042782	NA	-0.9431990659769	2.286345257613
##	[54,]	-0.537037739013	-0.6174005259411	-1.0359381557846	1.219101705560
##	[55,]	-0.832167981224	NA	NA	0.518001567123
##	[56,]	1.982677439735	NA	0.0470827380891	-2.561364603890
##	[57,]	1.160249919429	1.1165994334942	-0.8291854678521	-0.554964533961
##	[58,]	NA	-1.5027667047908	-0.4791505541243	1.932650248711
##	[59,]	-1.046860842591	-1.6309258391038	NA	NA
##	[60,]	NA	0.0022484971119	NA	1.136713923861
##	[61,]	NA	-0.0210637955737	-1.9620565252098	1.282607116157
##	[62,]	NA	NA	-1.1973403089283	NA
##	[63,]	-0.036832059327	-1.1668578734740	0.0975567157297	0.130877029058
##	[64,]	-1.878399096259	1.8406628648167	0.8511064888856	NA
##	[65,]	0.418546074828	1.7102544467100	0.4966624396448	NA
##	[66,]	NA	0.9573451046096	0.2459165650185	1.294017887092
##	[67,]	-0.789838463262	-0.6582049224634	NA	-1.570190085298
##	[68,]	-0.336831662026	0.7231648242261	0.4096837595561	1.781408719564
##	[69,]	-0.334994037270	NA	1.0292052013093	1.295014711986
##	[70,]	-0.868149918367	NA	-1.6304525135691	-0.146569626303
##	[71,]	NA	1.7599213900352	2.3556964656861	0.748577235572
##	[72,]	-0.413422157572	0.8514184252283	NA	NA
##	[73,]	1.378185460555	-0.1505323260513	NA	NA
##	[74,]	0.557694322197	0.5543150736186	NA	0.100871058305
##	[75,]	-0.973025468100	-0.7332457088206	NA	-1.862753961348
##	[76,]	0.261552485644	0.8102292478852	NA	1.069957386456
##	[77,]	0.507991436090	-0.5676596727434	-1.1268563965737	NA
##	[78,]	-1.084083526047	1.2997141955411	NA	NA
##	[79,]	NA	-0.8053000874209	NA	NA
##	[80,]	NA	-0.0261475515835	-1.5826898600019	2.739364383157
##	[81,]	NA	0.8941723652562	-1.0842889153019	NA
##	[82,]	0.600619863343	-0.2480005049504	-0.8284479134037	NA
##	[83,]	0.065116215435	0.0536505369443	-0.6260339016938	1.244803483378
##	[84,]	-0.018297833952	0.7434991041731	3.0727219716732	-0.013828812635
##	[85,]	-0.126272907166	0.4647036419713	NA	-2.078971396762
##	[86,]	0.346688188137	NA	-0.2862441279841	NA
##	[87,]	-0.091743015855	-0.7062266854411	1.8464342671891	0.329536161615
##	[88,]	0.853374131227	-1.5854786286524	0.5132718393024	0.972929508519
##	[89,]	NA	0.0252968232028	-0.4961014211888	-0.873715532071
##	[90,]	1.160294599948	1.2906988510701	NA	-0.441692342668
##	[91,]	NA	-0.7980953398632	NA	NA
##	[92,]	0.506134894774	0.8140133815382	-1.1602068405821	0.495044780030
##	[93,]	1.121907623537	0.0983792667477	1.3215717363471	NA
##	[94,]	0.526575777137	1.8878352472336	NA	NA
##	[95,]	-1.437807149011	-0.4061299601488	2.0147518261535	-0.537946051676
##	[96,]	-0.509796102481	-0.4526671267809	NA	2.333380953354

##	[97,]	1.356228924689	NA	-0.4266507971630	1.046751088526
##	[98,]	-0.570707210279	0.2448047504581	0.4698620394790	2.0962644446945
##	[99,]	1.151588347450	-1.2842869594874	-0.9658638495146	-1.682452218545
##	[100,]	NA	-0.4056044595059	1.7512409123225	NA
##		[,69]	[,70]	[,71]	[,72]
##	[1,]	NA	0.758585030679	-0.0637197033606	0.405221940921
##	[2,]	-0.62915172373840	0.519757599861	1.3314186146808	NA
##	[3,]	-0.56715959791039	-1.141691060572	-1.9080078743945	-1.189019797742
##	[4,]	-0.28663605598075	0.250010148837	0.1460916306458	0.641228736075
##	[5,]	NA	0.682994919092	0.5056917683854	NA
##	[6,]	-0.10011316870175	-0.745297986458	-0.4242872479413	NA
##	[7,]	0.16597502985470	0.688002157987	1.7016787831897	0.335820601670
##	[8,]	1.22929659581935	NA	NA	NA
##	[9,]	-0.69007933696141	-1.219313195239	0.0785240018317	NA
##	[10,]	-1.93996525504490	NA	NA	0.339659889304
##	[11,]	0.07509197575687	NA	0.0333905673029	-0.094324448089
##	[12,]	2.45145506818266	-3.218929038790	0.2195545113681	-1.939309492407
##	[13,]	0.97035925509598	0.226220042557	0.3284191807184	-1.238094499055
##	[14,]	-0.25832407564349	-0.351041203260	0.4089894387581	NA
##	[15,]	-0.76983530682755	-0.035479651790	0.1569436303383	-0.057791904280
##	[16,]	NA	NA	0.4820625482532	NA
##	[17,]	-0.74174340881771	NA	-0.7277016280338	-0.069039177476
##	[18,]	0.08093222667750	0.771233918360	1.9651652540416	0.833419033891
##	[19,]	-0.41656822344662	0.052739414983	-1.8407260437875	NA
##	[20,]	-0.00975719661685	NA	NA	-1.007601693273
##	[21,]	NA	-0.423339333065	1.1944788374688	-0.945900735042
##	[22,]	0.65976569850163	0.175438176553	-0.3683471530171	-2.160718948460
##	[23,]	0.73831782500400	-0.350142348253	0.1321960012553	0.527458815339
##	[24,]	-0.85746662101886	-0.227909793196	-1.0062167698069	-0.624712371607
##	[25,]	-0.15476662486187	NA	0.9461514963275	NA
##	[26,]	NA	0.700360537493	NA	0.859877105697
##	[27,]	1.17236007781730	1.620685247849	1.3246352375774	0.366383571224
##	[28,]	0.34303210697621	-1.793635840015	-0.0699807030502	-0.769541793322
##	[29,]	NA	NA	-0.6026528793126	NA
##	[30,]	0.06885510254368	-1.814819885901	NA	NA
##	[31,]	0.05292762552548	0.257237738214	0.4324568741550	0.941273363822
##	[32,]	-0.00488222091234	0.180274993771	0.1363151048417	-0.932115247528
##	[33,]	1.10941858775985	-0.804615226221	-1.3541077311784	NA
##	[34,]	-0.86610172215481	-0.509299617190	-0.4859003110191	-0.653906015193
##	[35,]	NA	-2.365737255337	-0.0902449121165	-0.381612275006
##	[36,]	-0.16741671982072	-0.049638830477	1.3279915507173	NA
##	[37,]	-0.68345409226847	NA	NA	-0.413560502587
##	[38,]	-0.55536132450451	1.880747010268	1.3818606475605	NA
##	[39,]	-1.04719848631911	-0.645138230219	0.0029371007929	-2.275308168440
##	[40,]	NA	-0.146967464391	NA	NA
##	[41,]	0.71058836365272	-1.123196195528	1.1349161784467	-1.020234549060
##	[42,]	1.37259165534896	-1.115565035787	1.5593449410526	-2.123699807748
##	[43,]	NA	-0.222412836037	NA	0.496016147948
##	[44,]	NA	NA	-0.8908426873466	0.420695215495
##	[45,]	NA	NA	-1.4701767059560	-0.303971806798

##	[46,]	NA	0.720174514964	NA	NA
##	[47,]	0.34664923492064	0.890914233433	NA	-1.091090257527
##	[48,]	-0.14322750830731	NA	-0.6891774270220	NA
##	[49,]	0.35521051661908	NA	NA	0.293306910196
##	[50,]	-2.31297656535108	NA	0.3836855821278	-0.134268766604
##	[51,]	NA	-1.574289358466	-0.7679947160245	-0.245635193803
##	[52,]	NA	0.549632108763	NA	0.629326809349
##	[53,]	0.13138503789306	NA	0.2902381202838	NA
##	[54,]	NA	-0.073174092818	NA	0.226437176608
##	[55,]	-0.37240580131744	-0.533883293867	1.9676287308134	-0.325259495885
##	[56,]	-1.28403425196884	-1.766941628941	2.0475691882180	NA
##	[57,]	0.45294650326229	-0.675988945781	0.3704885269936	NA
##	[58,]	NA	1.047866584261	-0.4219608067105	0.583200671181
##	[59,]	-0.54579301450033	-0.447712443862	-1.7713043019000	-0.090602980914
##	[60,]	0.84768044154318	-0.200938549906	-1.1866650805929	0.040171799664
##	[61,]	-0.30002347241606	-0.197437311719	0.2088499536219	-1.165025036533
##	[62,]	NA	NA	-1.3541440894180	0.276841854994
##	[63,]	-0.64987004444907	-0.513956753126	-1.6237685100461	NA
##	[64,]	-0.46718321190251	NA	-0.0021415069309	0.309537886435
##	[65,]	NA	2.427425451295	NA	-0.353895501356
##	[66,]	0.55519215967650	NA	-0.6534043450544	-0.584109031690
##	[67,]	NA	-0.156835990015	-0.5318871475297	0.375258615769
##	[68,]	-0.97408805513344	-0.512927834028	0.9880790612212	NA
##	[69,]	0.36025576420996	-0.208760633674	0.9233471073517	NA
##	[70,]	1.10806329205411	0.596613607199	NA	-0.434971459497
##	[71,]	0.71412935708007	NA	-0.2043753305241	-0.708447406462
##	[72,]	0.95771489524570	-0.224162858240	NA	-0.441613952225
##	[73,]	NA	-0.205665885915	NA	-0.349282377040
##	[74,]	NA	0.522543312097	NA	NA
##	[75,]	0.49307619307555	0.876036595260	0.1907594373360	-1.485840554560
##	[76,]	-0.82886412323359	-0.129628819440	0.0233986965263	-1.274299478971
##	[77,]	-0.53406148732606	-1.981264706927	NA	-0.819567945447
##	[78,]	NA	0.397720335553	-1.1125013080649	0.381387196125
##	[79,]	NA	NA	NA	1.540891257346
##	[80,]	0.00093263566913	NA	NA	-1.815203867308
##	[81,]	-2.01100156454933	0.187717209782	-0.0134319442813	0.278049006697
##	[82,]	-0.13642140395704	NA	-1.0711173620722	-0.334410352492
##	[83,]	0.18290951589880	0.489465505603	0.2814025904601	1.545445123917
##	[84,]	NA	0.396139002605	-1.5031519741871	-1.140247734405
##	[85,]	-1.52235223624282	-0.097247998587	NA	NA
##	[86,]	NA	0.047788148023	-0.6807287690599	NA
##	[87,]	1.47003653404127	-0.376381017059	NA	NA
##	[88,]	1.05639168647918	0.811579292355	0.3664687435195	1.670615755301
##	[89,]	NA	NA	NA	-0.854132510948
##	[90,]	NA	1.792062306333	0.7815233580829	-0.688818610870
##	[91,]	NA	NA	NA	1.032981612241
##	[92,]	NA	NA	-1.1552430842661	-0.356752337020
##	[93,]	1.27831084173183	-0.435893683276	-1.1687703994065	NA
##	[94,]	NA	NA	-0.4353305993786	NA
##	[95,]	NA	NA	NA	NA

##	[96,]	-0.69562436312186	NA	NA	-0.588450206244
##	[97,]	1.37222801441214	-0.525430299708	2.2113398459350	0.234990635327
##	[98,]	-0.39574564728991	0.884521555925	0.2119308385665	-1.119806322317
##	[99,]	-1.77544960440394	2.436488412756	-0.2439216828565	0.912404588125
##	[100,]	0.70342109229845	-0.711420685486	NA	0.098183252424
##		[,73]	[,74]	[,75]	[,76]
##	[1,]	0.159565230902	-0.2674390538780	2.063322077312	0.57770466399471
##	[2,]	-0.151599377967	0.5979827209157	1.275641524314	NA
##	[3,]	1.250858208081	NA	-1.458019216810	0.37324937491543
##	[4,]	NA	-3.1654404560193	NA	0.36304023422083
##	[5,]	1.259697213029	NA	0.022555095790	-0.35414270185959
##	[6,]	-0.208482134351	NA	-0.487156877582	NA
##	[7,]	NA	0.6829802591109	NA	-0.07296426259816
##	[8,]	0.878711894339	0.1903721990687	0.788338299262	0.42586107127932
##	[9,]	-1.362757906858	-0.4956855788272	0.645423530857	-0.29926775159640
##	[10,]	NA	-0.4992222042165	NA	NA
##	[11,]	0.847719179626	2.1533985968404	-1.413550335709	0.21687248503406
##	[12,]	NA	NA	0.724029204318	NA
##	[13,]	NA	NA	-1.338413984152	0.60316410714828
##	[14,]	1.127944117595	-1.5328705693443	0.442326471259	NA
##	[15,]	NA	-0.5186759805824	0.086652810647	1.80174131997075
##	[16,]	1.179329804146	1.2392072065033	0.024355538441	0.51577124524049
##	[17,]	0.216626051780	NA	NA	NA
##	[18,]	-0.632815291357	0.0649701807672	NA	-0.90013326101747
##	[19,]	NA	-1.4238498477223	1.030592835332	NA
##	[20,]	NA	0.8692525511418	0.479545717234	0.97249726278521
##	[21,]	-0.174238720330	0.3084025546281	NA	0.73445319692442
##	[22,]	-0.734286201943	0.3548792041627	0.045820670323	0.54810671560294
##	[23,]	-1.092130771657	NA	NA	NA
##	[24,]	2.063209206598	-0.3068726536313	0.489801320251	-0.33908844512130
##	[25,]	-0.523956072783	-1.8630154324855	NA	NA
##	[26,]	-1.415236145781	NA	-0.977015845600	NA
##	[27,]	-0.537291286341	1.4221437680829	-0.909227669357	0.05654552039883
##	[28,]	NA	0.1181213897341	0.097591968567	0.92640914194898
##	[29,]	-0.098822700980	0.0227779410350	-1.517652809879	1.57900806830808
##	[30,]	NA	NA	2.252407169195	-0.56934994079766
##	[31,]	1.717586137938	1.0848897109451	0.824904739625	-1.13619422769030
##	[32,]	-0.798202573540	0.8862302541190	-3.120602347273	1.42795003336038
##	[33,]	-2.493327509193	-1.0685695022479	NA	0.33043779974244
##	[34,]	-0.193250733537	-0.3740678451962	-0.022630619506	-2.05120793233026
##	[35,]	-0.086906951408	NA	-0.808137622284	0.49128619431038
##	[36,]	1.010073608164	0.0556755277085	NA	-0.34366047930003
##	[37,]	0.068599419713	0.3327207973282	0.290310211497	-1.13258970124950
##	[38,]	0.300059195195	-0.7764532843865	NA	0.87868882130976
##	[39,]	-0.122360948565	2.2350023078571	-0.739874989120	NA
##	[40,]	-0.890065790053	NA	NA	NA
##	[41,]	0.109676075125	NA	0.009213268654	-1.18747771909367
##	[42,]	1.194783314624	-0.8698571129122	NA	0.75812075787714
##	[43,]	NA	-0.7451429879585	NA	NA
##	[44,]	-0.557581850343	NA	0.080051084551	NA

##	[45,]	0.627558073817	2.0677709931222	-0.014284809352	NA
##	[46,]	-0.148439423575	NA	0.293764220831	NA
##	[47,]	NA	NA	-1.197333852809	0.23941751040541
##	[48,]	-0.167689137059	-0.4792079209994	-0.512807976237	-0.46721819946007
##	[49,]	1.811326132408	0.4263870076347	0.437253140833	NA
##	[50,]	0.020370439105	0.1889841005436	-0.577242240479	NA
##	[51,]	0.191698660446	0.5732560046308	-0.705079327823	NA
##	[52,]	1.114715754452	-0.6315019067205	0.031831762786	-0.31725870812223
##	[53,]	-1.297763242997	0.7569300402533	0.431720818569	0.12507893313826
##	[54,]	NA	-0.8135695227581	0.273941983212	NA
##	[55,]	-0.159479523507	-0.5055161082124	NA	0.58556777480209
##	[56,]	-0.420199417064	0.0640605586076	-1.752846673738	NA
##	[57,]	0.950951679806	0.7370023741053	-0.913153601743	NA
##	[58,]	-1.588384217350	NA	1.320391865311	NA
##	[59,]	1.618413358844	-0.8232179750212	-0.248150092014	-0.02985541286470
##	[60,]	-0.961290459707	0.0411088542588	NA	-1.11895217429727
##	[61,]	0.232438168642	NA	-1.242650376031	NA
##	[62,]	0.054645342903	-1.2376111951413	1.536848254105	-0.38988912356276
##	[63,]	NA	-1.0024632185983	NA	NA
##	[64,]	NA	-1.3404733800201	-0.627185633108	NA
##	[65,]	0.573728046942	NA	NA	-1.79758188554293
##	[66,]	0.262162542599	0.5646338845678	-0.465628472861	-0.24240002712535
##	[67,]	NA	NA	-0.432309173702	0.00014061050114
##	[68,]	-1.186657125685	0.2411805626590	-1.082181672481	-1.04977915238217
##	[69,]	0.068451449077	1.2358152905566	2.284504007172	1.14350567831792
##	[70,]	0.162028257462	NA	NA	-1.45007881771608
##	[71,]	0.736003157251	-0.0808008901863	NA	NA
##	[72,]	0.624479095023	NA	-0.795158984391	NA
##	[73,]	NA	0.3643793315635	1.184929713038	-0.32291675033563
##	[74,]	-2.562318466439	-0.8024802883104	-1.387990294101	NA
##	[75,]	-2.577513306161	NA	NA	0.30536660591696
##	[76,]	NA	NA	NA	NA
##	[77,]	NA	0.0212659552748	NA	NA
##	[78,]	0.388877264633	NA	NA	NA
##	[79,]	1.134925810634	0.2318830491753	NA	0.28364243121750
##	[80,]	NA	-1.9265120062079	NA	1.66967905946674
##	[81,]	-1.661313855289	0.0019508506291	NA	NA
##	[82,]	0.809779020406	NA	-0.939113396404	NA
##	[83,]	-2.167390282425	NA	NA	-0.43339161175266
##	[84,]	0.303446705873	1.4192037763029	NA	-0.42757209774174
##	[85,]	-0.961122712369	1.0425929419792	0.303772711393	NA
##	[86,]	0.081204263180	1.5721711895089	1.043437168682	0.18991082808797
##	[87,]	-0.729018685704	NA	NA	0.73372028740632
##	[88,]	-0.839320601899	0.1614943478572	0.359662934030	-0.69128664607110
##	[89,]	-1.321106371792	NA	NA	0.52127423011341
##	[90,]	NA	NA	NA	NA
##	[91,]	NA	-2.4985597521028	0.998907134564	0.71534963342157
##	[92,]	NA	NA	0.577222700897	NA
##	[93,]	-0.421164026301	0.8547247098576	0.772083068576	0.79571413875840
##	[94,]	-1.011548766036	0.9992394798402	NA	NA

##	[95,]	0.272233566091	NA	NA	0.95147386616385
##	[96,]	NA	0.9410012561740	NA	-0.03866875301835
##	[97,]	NA	-0.4225319030807	NA	1.04783655839124
##	[98,]	0.310284411706	0.1255523011601	0.465520801443	NA
##	[99,]	-0.965770707960	0.2549538949719	0.210536630881	-0.34270771050544
##	[100,]	NA	NA	-0.096220955046	0.58309977359601
##		[,77]	[,78]	[,79]	[,80]
##	[1,]	NA	1.7103550988016	-0.936657945077	NA
##	[2,]	NA	-0.3233343818032	0.358589215175	NA
##	[3,]	0.488404044685	0.8645123112838	NA	-0.690079017838
##	[4,]	NA	NA	NA	0.319214576612
##	[5,]	-0.944492522174	2.3949961567228	-0.803507898232	0.404299963197
##	[6,]	0.504049288576	0.3892823204624	1.401711397122	-0.509203083187
##	[7,]	0.619050203946	0.1847961280102	NA	NA
##	[8,]	-1.235980981260	1.4183804610768	-1.256758761605	0.263302754051
##	[9,]	0.318162740658	2.1150690851129	-0.470627148732	0.979813927560
##	[10,]	0.098583024206	-0.9300861651196	-0.060744484849	0.810089465103
##	[11,]	-0.714506855915	-1.1846908721031	NA	-0.038680728210
##	[12,]	-0.843021132485	-2.0816362107983	0.504970357620	NA
##	[13,]	-0.564130789890	1.1087065321804	-1.932884750304	NA
##	[14,]	-0.594171137806	-1.7939113286740	1.026495451009	NA
##	[15,]	NA	NA	NA	NA
##	[16,]	NA	0.4867148655277	-1.156075752843	-1.078392353575
##	[17,]	-0.813537863730	-1.6241766825303	0.976491760059	0.194299909672
##	[18,]	0.035433360409	-0.4186380471660	-1.298528071633	-1.085905933533
##	[19,]	NA	NA	-1.476361722666	NA
##	[20,]	NA	-0.4575628423686	0.842448001460	-0.258312582285
##	[21,]	0.937122993746	NA	0.770338487124	-1.210649510297
##	[22,]	NA	-1.7635435636366	0.355485289863	NA
##	[23,]	-0.752576566885	-0.8108987848521	0.751451045473	NA
##	[24,]	0.563388612824	1.2070638405018	NA	1.069710228841
##	[25,]	NA	-0.9357494898087	-2.835414366650	NA
##	[26,]	NA	-0.8272714266821	NA	0.073808424319
##	[27,]	0.613187581066	-0.3305085976961	0.054065863720	0.309150034800
##	[28,]	NA	1.4472700350332	NA	-0.182476922932
##	[29,]	NA	0.5427716909209	1.430735603536	0.559481164714
##	[30,]	NA	-0.4563689529412	-0.084749655376	NA
##	[31,]	NA	0.6696388340538	-0.224878811727	-0.652539719088
##	[32,]	NA	-2.0670846037576	NA	NA
##	[33,]	0.494425412757	-0.6529473413281	NA	-0.795656905985
##	[34,]	NA	-0.3383111835272	-0.824407735180	0.290995638979
##	[35,]	-0.844941917604	1.7300795987856	NA	NA
##	[36,]	1.082648836079	0.0085827144662	-0.372202333891	NA
##	[37,]	1.321936135938	-0.8296135326982	0.620476564480	NA
##	[38,]	-0.141166400409	-0.1362736742001	-0.916763794272	1.356176471293
##	[39,]	-0.859373073647	-0.5539929408170	0.120068745940	NA
##	[40,]	-1.258487590910	1.0986261525571	0.978904104630	-1.412914414218
##	[41,]	NA	-0.0895511031524	2.441803903110	-0.838751349307
##	[42,]	1.607005175595	0.7967880631762	-1.449610713141	-0.388421232339
##	[43,]	1.615102529325	0.0403072562369	NA	NA

##	[44,]	NA	-0.4714809903221	0.717000165504	-0.197170180744
##	[45,]	1.853101930935	-2.6118400385661	-0.592970180406	0.356686139520
##	[46,]	0.315254228425	-1.6371310322595	-1.134589860789	0.149453207581
##	[47,]	1.873645500811	-1.9593581279556	0.267851480261	-0.091779119595
##	[48,]	0.696593664948	0.2382954781134	NA	0.016554227098
##	[49,]	0.757238760775	0.2428782934698	0.068171017544	NA
##	[50,]	0.765489747971	-0.6736660668234	NA	NA
##	[51,]	NA	-0.6242959079886	0.564187705867	0.962822204651
##	[52,]	0.567978289403	0.4881817107976	0.455045102492	-1.099116381827
##	[53,]	-0.417588434110	-0.3578573528149	NA	-0.940332821398
##	[54,]	-0.987465964095	NA	0.233837703408	NA
##	[55,]	-0.939232365256	-0.8885827986027	0.242916382231	0.770224333944
##	[56,]	-0.118668843325	1.3508832908359	1.388149732544	0.400020074951
##	[57,]	0.296091005134	-1.0449339998479	-1.101672874660	NA
##	[58,]	-0.874817565282	-1.1471740278405	NA	0.491663358074
##	[59,]	0.212594412653	-0.8120860509350	NA	-0.226875664937
##	[60,]	-0.786314202181	NA	0.887272388363	0.246477450866
##	[61,]	-0.140563939450	NA	NA	NA
##	[62,]	-0.530884548462	-0.9447963955994	0.645509673946	-0.719043250325
##	[63,]	NA	-0.2026269633662	NA	1.364655098186
##	[64,]	-1.325575998988	-0.3969660023709	0.191975419558	-0.598103642215
##	[65,]	NA	-0.4443019808198	-2.426207042670	NA
##	[66,]	-0.099812103486	1.0335685692086	0.030604700958	-0.255798563933
##	[67,]	0.659631232292	NA	2.979582851212	NA
##	[68,]	0.358279053708	NA	-0.063912901220	0.427246634218
##	[69,]	NA	0.5185442395837	1.236572811594	NA
##	[70,]	-0.181145819682	1.9144469565399	NA	1.212611911337
##	[71,]	0.350262900982	NA	-1.873034326025	0.035348060203
##	[72,]	NA	NA	-0.634319980398	-0.743741400381
##	[73,]	1.924149820903	0.3244779524468	0.578810064636	0.168000865181
##	[74,]	0.506219243468	NA	NA	NA
##	[75,]	-0.085245164862	NA	0.469032797834	NA
##	[76,]	1.178594919530	NA	1.497491449603	NA
##	[77,]	0.829815678476	-0.0672665838232	-0.481099206537	NA
##	[78,]	0.196408914534	0.3278384076323	NA	-1.075069964565
##	[79,]	NA	1.8086147275108	0.274609364037	0.631856878444
##	[80,]	NA	NA	-0.267383493265	0.244648858700
##	[81,]	NA	0.1235302667266	NA	-1.789625810024
##	[82,]	NA	NA	-1.554069475515	-0.143484729350
##	[83,]	-0.763994302083	-0.5490419012965	0.688276892645	-1.873040368243
##	[84,]	0.101294346925	-1.3931582442145	-1.489488811889	NA
##	[85,]	0.286566264557	NA	-0.422874149062	-0.212373002819
##	[86,]	-0.166253362852	-3.6445960629553	1.155945035970	NA
##	[87,]	NA	1.5586507066349	NA	-0.737898826336
##	[88,]	-1.611368365558	0.1087005995801	0.828783371784	0.461492609028
##	[89,]	NA	NA	-0.154380304176	0.861489722279
##	[90,]	1.110272220837	1.3265921465178	-1.423308591898	-2.174537256837
##	[91,]	0.256933648808	-1.8388760978615	NA	NA
##	[92,]	-1.067716822325	NA	-0.372405372248	-1.018168201968
##	[93,]	1.273687055618	NA	NA	NA

##	[94,]	NA	NA	0.701901589290	NA
##	[95,]	NA	-0.1440502844805	-0.831571099313	-0.930775578622
##	[96,]	0.319368308322	0.1096864311988	-1.713839217369	1.180932987882
##	[97,]	1.750856449301	0.0053588853583	-1.101030240812	0.626882949712
##	[98,]	NA	NA	-0.915500098768	1.455910718677
##	[99,]	NA	-1.1412815878458	NA	-0.733225939356
##	[100,]	NA	1.7843831688620	1.035070112039	NA
##		[,81]	[,82]	[,83]	[,84]
##	[1,]	0.1182104315513	-0.6898315280251	-0.1106427402607	1.2379466206759
##	[2,]	NA	NA	0.1810237237216	1.2653747991614
##	[3,]	-0.6872720062061	-0.8951021989464	NA	-1.7435245608477
##	[4,]	0.1733289742015	NA	0.0696483536493	0.6340105329670
##	[5,]	NA	0.1627054000245	-0.6733106221655	NA
##	[6,]	-0.6236332553299	NA	NA	0.0604833748849
##	[7,]	-0.3279509320872	NA	-1.0449084000274	2.4393624006622
##	[8,]	-1.5756739172976	-0.6129406194131	0.4828803959416	NA
##	[9,]	0.6324691877465	NA	-0.6543107829780	0.5873234757442
##	[10,]	-1.1496185105834	0.7760906824801	NA	NA
##	[11,]	-0.5944482263015	0.8366901986411	NA	-1.7415525109259
##	[12,]	-1.5508504343462	0.2290737921659	-1.2632332155741	-0.1613726720484
##	[13,]	NA	1.2228057061324	-0.8111936183859	0.1218813306319
##	[14,]	-1.1062165398530	-1.2979178963322	NA	NA
##	[15,]	-0.1664850041397	1.1929816003919	1.2329294063160	-0.5986302562580
##	[16,]	-1.0076062744092	-0.1358896856947	NA	2.1003945633831
##	[17,]	0.7991268475585	0.2200530437380	-1.0746652033954	-0.8281806199528
##	[18,]	1.3579146520451	NA	NA	NA
##	[19,]	0.5635971102217	NA	-1.1930026720311	NA
##	[20,]	NA	0.1035964639741	0.1154412017658	0.3359914703202
##	[21,]	0.0871205721033	-1.7744122685285	-0.1428107470088	NA
##	[22,]	1.5116958357251	-0.9532774552832	NA	-0.9388492181846
##	[23,]	0.5744793653673	1.5964645245262	0.0817856315454	-0.2041674182888
##	[24,]	-1.4667155761622	0.6592731047550	0.3125884447229	NA
##	[25,]	-1.5357596840853	-0.6835928664350	-1.7796217846091	-0.9429257032602
##	[26,]	0.4628258853603	-0.8030846107089	0.4053798094264	-1.1555414871701
##	[27,]	NA	1.0509558812658	-0.7276931235087	NA
##	[28,]	-2.0853020539512	0.2176927884953	1.7736472916539	-1.9669319013913
##	[29,]	-1.7842965715600	0.0856025255258	NA	1.3986466053612
##	[30,]	-1.3392967503152	-0.2934946524305	-1.1459922162626	-0.2349912863465
##	[31,]	0.2565691502097	NA	-0.0734371546616	1.9362248788732
##	[32,]	1.9271810071643	-1.0785611655054	-0.5986566799603	-0.3325509712518
##	[33,]	NA	0.2086045720988	0.0241362808564	-2.5553745668896
##	[34,]	0.0041879677481	0.1245565179362	NA	0.8081382021840
##	[35,]	-2.5762042187997	0.9440562359998	1.9893465925347	NA
##	[36,]	0.1472250454940	0.9799171909828	NA	NA
##	[37,]	-0.2037423839290	NA	0.3604989865866	NA
##	[38,]	-0.2550999299583	NA	-0.0500445922497	-0.7319022805929
##	[39,]	NA	1.3957898523010	2.6035986554637	-0.4933243497912
##	[40,]	NA	-0.1668094607626	NA	1.2706152465936
##	[41,]	0.8141770043348	0.2312565511883	NA	NA
##	[42,]	NA	-0.9691613612767	-0.8288326584794	-0.3428750500139

##	[43,]	0.3223100097930	1.1929954204105	0.3487053750555	NA
##	[44,]	0.0433509312012	-0.0046922904872	NA	NA
##	[45,]	-0.2622353847156	NA	0.5606570675848	0.5922397392071
##	[46,]	NA	0.7719758175793	NA	-0.8956703064697
##	[47,]	0.1056794646447	3.0550088589520	0.7892693665523	-0.5124576788697
##	[48,]	NA	NA	NA	NA
##	[49,]	NA	-0.9119975247549	-0.2288023305542	1.3929615773480
##	[50,]	NA	-1.8778737611259	1.0401600257594	0.4778518920687
##	[51,]	2.3216747524280	0.6104066296593	NA	-0.7263304048330
##	[52,]	-0.8480712406488	1.1207306349136	0.0228820518228	-1.4110951451285
##	[53,]	NA	NA	-1.7926269689643	-1.2249404957737
##	[54,]	-0.1697592910167	1.3674631499808	NA	-0.9371785375044
##	[55,]	0.1653474605917	0.9053234521252	-0.2785884040381	-0.3320595199755
##	[56,]	-1.3957890812181	NA	1.1497706629019	0.2978377716915
##	[57,]	-1.1675265445760	NA	1.6282107499336	NA
##	[58,]	0.3163085402559	-0.2205879226813	-0.3384770089602	NA
##	[59,]	-1.2544222634504	NA	-1.9927854991653	-0.0837882213336
##	[60,]	NA	-0.4964721559741	-1.8465227314976	-0.0391574762942
##	[61,]	NA	1.2798259823426	-0.4213383584828	-0.3548576537327
##	[62,]	-1.9716370701153	0.8708659662025	NA	-1.9535888927755
##	[63,]	1.0672838929012	-1.1482590460282	0.3592614254826	NA
##	[64,]	0.7050481602523	1.0133879564105	-0.8938931542215	NA
##	[65,]	-0.3447297987052	0.2061291694030	0.5001816670907	NA
##	[66,]	NA	1.0714061343372	0.5856618001433	-0.3479937185559
##	[67,]	-0.9109674144566	0.3330794578324	-0.1714113921960	NA
##	[68,]	-1.4646722104446	-0.6441486836687	NA	-1.0507512764029
##	[69,]	NA	NA	NA	0.1622430648453
##	[70,]	NA	-0.1775889835541	NA	-1.7331450840105
##	[71,]	-1.4914627080100	-0.0238547638559	1.0080951996886	0.9504761370506
##	[72,]	0.9295608148504	NA	NA	1.1464938216176
##	[73,]	-0.2971243470348	0.1017296846810	0.0061070008377	NA
##	[74,]	NA	1.3665658581273	-1.1461352122482	0.1357916399632
##	[75,]	NA	NA	NA	-0.3249547686726
##	[76,]	-0.3406641262015	NA	-0.6913948309876	-0.1391145952857
##	[77,]	0.3134512443702	0.5813537870704	-1.2478741305951	NA
##	[78,]	-1.6454096655237	-1.3924479099231	1.0303182843923	-0.6645794075507
##	[79,]	0.0886061519371	-0.6933549941431	NA	1.1305346737391
##	[80,]	0.9921445037090	0.0238511534314	0.9971952786989	1.7328635634368
##	[81,]	-1.0015064558408	1.8246011361362	2.0566977466142	NA
##	[82,]	-0.2706489643174	-0.2258737549257	NA	NA
##	[83,]	-0.9591887772192	-1.4537038597001	NA	-0.6134837281435
##	[84,]	0.2708412788494	NA	-0.0732603515413	1.5998069608510
##	[85,]	0.6909506087401	0.9044763408253	1.0232981194798	0.0906100886571
##	[86,]	-0.6411416927188	-1.7670768513577	0.2422818697821	-1.3251043127000
##	[87,]	1.0113662783652	-0.9051056754229	NA	NA
##	[88,]	0.3422129272458	-1.2369385159924	0.3362509480821	-1.0519928842076
##	[89,]	-0.0653082802420	0.3082726062456	-0.4392846608084	0.0066480875668
##	[90,]	NA	NA	NA	1.3534578093657
##	[91,]	1.8681168124490	0.0540673730616	NA	0.1222717403515
##	[92,]	1.1198589374920	0.3071799942123	0.1592866019089	-0.7304439812080

##	[93,]	-0.0266903712202	NA	NA	0.5581734456255
##	[94,]	-1.7904996258792	2.1638874027320	NA	0.2380283661635
##	[95,]	0.6475920915191	NA	2.4288298684344	NA
##	[96,]	-0.2060773034206	-0.5655635556950	2.0116646213009	0.7608675822937
##	[97,]	0.8284971794594	NA	NA	-1.1588715837878
##	[98,]	-2.3385828551459	NA	1.3638440553847	-1.5605312388134
##	[99,]	NA	0.8454357059950	-0.1773023584283	NA
##	[100,]	0.1109276949767	0.1369950774902	1.6094145912827	1.3362399257983
##		[,85]	[,86]	[,87]	[,88]
##	[1,]	NA	NA	-0.360990483241	-0.577515117260
##	[2,]	0.97546585053	-0.6178856589271	-0.340951245292	0.919473816908
##	[3,]	NA	NA	-0.370081504661	0.085013068564
##	[4,]	NA	1.6266347307582	-0.624888392375	-0.634171042544
##	[5,]	-1.17277123290	0.1964322875983	0.531928238014	0.496045146094
##	[6,]	0.95305305156	-0.0199298313294	NA	1.531855117191
##	[7,]	-0.56472864516	-0.6718917017560	0.809725553258	-0.430706086050
##	[8,]	NA	1.1120510551368	NA	NA
##	[9,]	-0.82225610786	NA	0.064921136824	-2.067956739364
##	[10,]	NA	-0.8050091460565	-0.909754100566	NA
##	[11,]	-0.73571579558	1.3508396338624	0.800660962894	3.410890963977
##	[12,]	NA	NA	0.097889625512	NA
##	[13,]	0.32435640693	0.6517624813569	-0.255405815937	NA
##	[14,]	0.89251296802	NA	NA	-0.472100506055
##	[15,]	0.19650993935	-0.3661604533460	-1.895221122268	NA
##	[16,]	NA	NA	NA	0.216138679010
##	[17,]	0.58782351147	NA	-0.339877488619	-0.713369878659
##	[18,]	1.45242230256	-0.4601582422946	0.437519199713	NA
##	[19,]	-0.33371178476	1.4678336688500	-2.202987422759	0.252258639974
##	[20,]	NA	-0.7094086866897	0.299940394542	-0.381295168984
##	[21,]	NA	0.5880366329775	-0.698961135441	0.679468768544
##	[22,]	NA	-0.1731240180485	NA	-1.735739929088
##	[23,]	-0.84050820315	-1.9781166255283	0.331272355173	-0.531038865901
##	[24,]	-0.65141017900	0.7529126593869	0.855789872396	0.307629483844
##	[25,]	0.10002766503	NA	-0.710112445875	-0.380845641349
##	[26,]	1.39919538270	NA	-0.076201969324	NA
##	[27,]	0.18629257611	0.5017100489380	-0.365197447698	-1.857020050949
##	[28,]	-0.47746817407	-2.0450822308953	0.160775020580	NA
##	[29,]	NA	-0.7109274554406	-0.673530385349	NA
##	[30,]	NA	0.6202287250947	-0.231893323208	NA
##	[31,]	-0.43340384695	NA	1.004812764348	0.265016751281
##	[32,]	-1.80900882974	1.8619282800375	-2.169480178268	-0.395785860760
##	[33,]	1.47062531436	-0.1188818590261	0.358642435422	NA
##	[34,]	-2.74805425307	-0.1178208145113	-0.894545736788	NA
##	[35,]	1.23429882387	NA	NA	-0.829413973104
##	[36,]	0.67777092625	0.6756122816463	-0.594489333075	0.039551628220
##	[37,]	0.16077921167	-0.0816485326772	NA	-2.134075999087
##	[38,]	NA	-1.4218946394440	-0.226839290289	-1.217694985576
##	[39,]	0.56277537574	-1.4533653827139	0.014967985529	NA
##	[40,]	NA	0.5603023053339	-0.886448511287	-0.366638973857
##	[41,]	NA	1.0107371507806	-0.106191103535	0.911541904228

##	[42,]	NA	0.8237278215831	0.443649847035	0.059298210951
##	[43,]	-0.79958092218	-1.2154134579380	-0.030260075039	0.495390399984
##	[44,]	NA	0.3357878355194	NA	0.688614442229
##	[45,]	-0.18950735625	NA	0.221163165015	NA
##	[46,]	NA	-0.2571919410101	NA	1.064161645905
##	[47,]	2.15951441458	0.5562984462969	NA	NA
##	[48,]	0.81929412932	0.2072087647823	NA	NA
##	[49,]	-0.14394027012	-0.1425884023847	NA	-0.949521969735
##	[50,]	-0.40110452886	1.0526067460115	NA	NA
##	[51,]	2.43944840733	-0.9110016014555	-0.886835484221	NA
##	[52,]	0.95045870639	-0.3002022791307	1.476644811638	1.766490166961
##	[53,]	NA	0.0981241749640	NA	0.854895001516
##	[54,]	NA	-1.5127748722153	NA	1.332602219402
##	[55,]	NA	-0.7291079281945	NA	1.440084554341
##	[56,]	NA	-0.7877485667708	NA	NA
##	[57,]	-0.75901516343	-0.6711371779172	NA	0.062003578518
##	[58,]	-0.58182326008	NA	NA	0.991222591872
##	[59,]	NA	1.5434524413187	-0.205501924144	1.003876548540
##	[60,]	1.02836213564	-1.2385788140152	-1.113046640631	-0.735528142772
##	[61,]	0.04827458345	-0.8678708059188	NA	-0.589533542133
##	[62,]	-0.73838455462	-0.8680910414007	-0.616250154340	NA
##	[63,]	-0.24146208067	-1.6562638888441	0.203332095091	0.693345352980
##	[64,]	NA	-1.0536245072729	-0.866061841832	0.190158975050
##	[65,]	NA	-0.3048158049023	1.478065646882	1.195100810136
##	[66,]	-1.03486734402	NA	1.686532248305	0.903654699899
##	[67,]	NA	NA	-1.763594458441	NA
##	[68,]	0.43130544052	NA	NA	0.852168204369
##	[69,]	-0.43560702129	-0.9292075332365	NA	0.251613414335
##	[70,]	0.16508713526	-2.1972765113676	2.073721977439	NA
##	[71,]	NA	0.6998535979568	2.850888951765	NA
##	[72,]	-0.21360175627	0.1846144059141	0.246973396627	NA
##	[73,]	0.22630065349	1.3829067323032	0.588106841793	-0.625784273930
##	[74,]	NA	-0.5464680120047	-0.451764563631	-0.867843257467
##	[75,]	NA	0.5765179978237	NA	NA
##	[76,]	-1.66431375806	-1.9520777823952	NA	-0.305684988834
##	[77,]	-0.77781384833	1.3767915307034	0.107018292731	-0.364532919959
##	[78,]	NA	-0.1361366167093	NA	1.605610467666
##	[79,]	NA	1.0191428207618	NA	NA
##	[80,]	-0.75442846073	0.0886628906704	NA	1.509110076042
##	[81,]	0.20604698140	1.7679486449247	-1.011609824201	0.995008440628
##	[82,]	-0.69768156933	0.9694272677230	-0.557839421955	NA
##	[83,]	-1.48753730882	-1.5028077290396	1.209210695713	0.481554286473
##	[84,]	-0.37077960377	0.9137098997746	NA	NA
##	[85,]	-1.43536314149	NA	NA	0.208717030891
##	[86,]	NA	-0.4001265820853	-0.991691196314	NA
##	[87,]	0.95768698512	0.1289827704516	NA	NA
##	[88,]	NA	-1.2653446974843	NA	0.836021587292
##	[89,]	2.00560875192	0.0014484206199	0.444552999063	-0.700083217889
##	[90,]	-1.05664740466	-1.4681459114929	-1.150013834042	-0.637999456872
##	[91,]	-0.10260617965	-0.0913755542788	-0.051124893988	-1.735806646061

##	[92,]	NA	NA	NA	-1.701939693661
##	[93,]	-1.04218140101	-0.7672616354926	NA	-0.906234851893
##	[94,]	0.94773262924	1.3090871744280	0.454179801084	1.867605889114
##	[95,]	1.50200909551	NA	-0.387752146592	1.038695166568
##	[96,]	0.29264733298	NA	0.164723908172	-0.738874784687
##	[97,]	-0.45261463126	1.6183280885649	-0.987688575852	NA
##	[98,]	-0.48634522238	NA	1.023096056119	-1.336981187441
##	[99,]	0.11305289947	NA	-0.624368677956	NA
##	[100,]	2.16738323202	-0.2346423149103	1.230446590832	-0.739392810714
##		[,89]	[,90]	[,91]	[,92]
##	[1,]	2.7403439247490	0.327923452649	NA	0.8132878565860
##	[2,]	-0.2191091169477	-1.227581620797	-1.013115907418	1.0491587737673
##	[3,]	NA	1.882469979620	0.261365434269	-0.7269170290339
##	[4,]	1.1628735003074	NA	NA	-0.3285628573527
##	[5,]	-0.4063697748262	NA	0.185852004426	0.6636612282403
##	[6,]	NA	-0.604537990856	NA	-0.0552487100436
##	[7,]	NA	-0.927083900535	NA	NA
##	[8,]	0.2558918143223	NA	NA	-1.2630440586717
##	[9,]	-0.3353121527377	1.123796613840	-0.730005276445	-0.9958769619879
##	[10,]	-1.3728948078380	-1.576580508828	NA	NA
##	[11,]	NA	NA	-2.260690964559	0.1561835324597
##	[12,]	-0.6972846537308	-2.291796282064	NA	NA
##	[13,]	0.4720079997960	-0.701997221124	-0.949514870195	-0.6163947336123
##	[14,]	-1.0186754237386	-1.079016890425	NA	NA
##	[15,]	NA	-0.802493340700	0.393548833588	NA
##	[16,]	0.6831286705975	NA	NA	-0.5431626524060
##	[17,]	NA	2.021007477579	0.596318743617	-0.2595608396383
##	[18,]	NA	0.181104131544	NA	NA
##	[19,]	0.1964295380092	-0.768227584116	0.988040172354	-1.2547838429838
##	[20,]	1.2174629569699	NA	-0.263117601142	0.1026467680178
##	[21,]	NA	-0.519278516231	NA	-0.4887498641309
##	[22,]	0.1754556950769	0.428048418882	1.345672846846	1.3906666594990
##	[23,]	0.4255667432856	-1.149693470967	NA	-0.9501454449373
##	[24,]	NA	0.715765787388	-1.308311284602	NA
##	[25,]	1.4338208262713	NA	0.290497355539	0.7151063685077
##	[26,]	0.0966560633982	NA	1.213043175148	-0.5672773381862
##	[27,]	NA	-0.756172140958	-0.466043318285	-0.2606456305708
##	[28,]	NA	NA	NA	0.1849639163471
##	[29,]	NA	0.260501460208	NA	0.3701331350157
##	[30,]	1.9589507287525	0.154450064246	-0.238084634120	0.6825524928034
##	[31,]	-0.7673263782948	-0.118704167627	0.921479182352	-0.3356940661987
##	[32,]	NA	-0.496620011701	-2.262008980525	-0.3075289004059
##	[33,]	-0.1945498059345	0.158448240005	-0.293552882853	NA
##	[34,]	1.5246218443309	NA	NA	NA
##	[35,]	-0.2983663933085	NA	-0.924269209524	0.8197648945545
##	[36,]	0.2501198105357	NA	NA	-0.2612630723915
##	[37,]	NA	-0.222640844202	0.853913328159	0.3128267238912
##	[38,]	NA	NA	NA	-1.3774378460767
##	[39,]	NA	-0.262672556936	NA	-0.5536881011589
##	[40,]	1.2846749142798	NA	NA	NA

##	[41,]	-0.2045212557314	NA	-1.238880586592	0.6228960966555
##	[42,]	1.8564339933910	-0.922390279701	-0.684205406677	NA
##	[43,]	-0.2784291853916	-1.313811990513	0.231577288375	-1.4219010958074
##	[44,]	1.7775114196161	1.333886816869	-0.671636450093	-0.2843598463656
##	[45,]	NA	0.339328401183	0.896652612614	0.1631207299222
##	[46,]	-1.7070564082796	-2.270465376023	-0.942084457885	-0.2326637241380
##	[47,]	NA	0.591195265504	0.976766348828	1.1260569040916
##	[48,]	NA	-0.289484399514	0.858713615160	-0.3308362785393
##	[49,]	0.4215114076214	NA	0.757307121607	NA
##	[50,]	1.1285601258069	1.665327908735	1.840835328421	-0.0634861452882
##	[51,]	NA	-0.560195172319	-0.545142878632	-0.0408352404346
##	[52,]	-0.2717648306856	-0.432606902684	-0.479482471318	NA
##	[53,]	NA	-1.765187486054	NA	0.4478200455415
##	[54,]	NA	-1.613177301909	NA	-0.6386529450454
##	[55,]	NA	NA	-1.318738336926	NA
##	[56,]	NA	0.250015782388	0.780016895871	0.3459461831537
##	[57,]	-0.8663712949156	NA	NA	0.6972447537483
##	[58,]	NA	-0.122430141193	1.379253941816	-1.0915847871576
##	[59,]	-0.2118384199813	1.391566571831	NA	-1.8915119431458
##	[60,]	NA	-0.323357503896	0.111924227381	1.2600951457943
##	[61,]	1.1670835401768	0.701369693272	0.619759820043	NA
##	[62,]	NA	-0.457763800537	-0.793935613190	-0.7451232176230
##	[63,]	0.1464593954446	1.939263939337	NA	NA
##	[64,]	-1.0513044110637	NA	-0.052387560732	-0.0005877290338
##	[65,]	NA	NA	0.120831678078	-0.3375025919580
##	[66,]	1.6542628084374	-0.348083525025	1.767064584227	NA
##	[67,]	-1.1122113484079	NA	-0.242550388519	NA
##	[68,]	-0.8972382011681	0.378468168153	NA	0.9746678216491
##	[69,]	-1.2902711310578	-1.549903808948	NA	0.0376513127285
##	[70,]	0.9997897785341	-0.705170225298	-0.015837046199	-0.5144500439745
##	[71,]	0.1869033366569	-1.381529652198	NA	NA
##	[72,]	0.2345859951543	-0.915659253175	NA	NA
##	[73,]	-0.7199654026382	-0.094884259442	NA	0.0156858685274
##	[74,]	-0.0012155967759	0.058015921768	NA	-0.6436913496105
##	[75,]	0.3014031361844	-0.369393108903	-0.387498265422	0.5193568140141
##	[76,]	-0.4458221345184	-0.360612090636	NA	1.8884407454826
##	[77,]	NA	-0.931550103210	0.387742881548	0.3327250183761
##	[78,]	NA	0.096893423533	0.860589047651	-1.1842679317382
##	[79,]	-0.2335727835321	-0.702051660768	0.260373590399	NA
##	[80,]	0.0235573450875	1.137786227320	NA	NA
##	[81,]	1.3495202764242	-0.597701423673	-1.851057246561	NA
##	[82,]	NA	-0.027881591662	1.718365450223	-1.3771213082898
##	[83,]	NA	-2.283650195115	NA	-0.1255927724277
##	[84,]	-0.8892473897169	NA	NA	0.6722898114752
##	[85,]	NA	-0.634015705483	NA	NA
##	[86,]	0.5665870145590	NA	-0.798038798224	-0.8783657132175
##	[87,]	-0.1684496753628	0.701984929751	NA	-1.3415978348966
##	[88,]	0.2937440362121	NA	-1.451279227252	1.4931056199701
##	[89,]	NA	-1.302540591050	0.258306325072	1.0220951786086
##	[90,]	0.8581184069002	-0.943791765454	NA	-0.0184298761352

##	[91,]	0.4898894397251	-0.030457114205	NA	NA
##	[92,]	-0.2101577973535	-0.925942526303	1.296399084126	0.9752909570428
##	[93,]	-2.0502454428707	0.396950144935	NA	-0.3805519888758
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##	[95,]	-1.6771671204703	1.027341169856	0.970206605338	-0.1331334834813
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##	[98,]	NA	NA	NA	NA
##	[99,]	NA	NA	NA	NA
##	[100,]	0.1805660303986	0.214173151133	-0.027667891602	-0.1801958148046
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##	[5,]	-1.5224213432397	0.7240892208098	-0.9170781100080	NA
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##	[19,]	NA	NA	NA	1.374850068246
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##	[23,]	0.7740470669638	0.0838819775602	NA	NA
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##	[26,]	-2.3430555039643	NA	-0.7609356641874	0.150577316796
##	[27,]	NA	0.8658129651462	1.3109062945275	1.435151980275
##	[28,]	NA	-1.3893119586755	-0.3166957884188	-1.413837402562
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##	[41,]	NA	-0.4736127763215	NA	NA
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##	[71,]	NA	-2.3919180677643	1.0283402699557	0.800353462007
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##	[88,]	NA	-0.3331214198948	NA	0.504035061765
##	[89,]	-0.0411645552651	0.8379902391612	2.7722072703209	0.754135292601

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##	[99,]	0.0547266926501	NA	-0.3189402816018	-0.651095333241
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##	[7,]	NA	NA	-0.5998733372643	NA
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## [100,] NA NA -0.3030455573946 -0.061424700509
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- Sort the rows in matrix R by the largest row sum to lowest. Be careful about the NA's!
R[`order(rowSums(R, na.rm=TRUE), decreasing=TRUE),`]

```
## [,1] [,2] [,3] [,4]
## [1,] 1.0835926630003 1.314004253229 -0.575114433555 0.0903335498291
## [2,] NA -2.045085809815 -2.275733526888 NA
## [3,] NA 0.864391421584 2.990829005613 0.2641195871643
## [4,] NA NA NA 0.5654001925468
## [5,] NA -0.213139620218 0.233056993470 -0.1955723240653
## [6,] 0.0033887277411 0.328788877485 -0.861919811098 -0.2478997499247
## [7,] 0.5871787122591 NA NA -1.8506871667113
## [8,] -0.3363618741184 -0.170933779359 -0.393339340391 0.1261440055630
## [9,] -0.3361619713725 0.282293634627 0.559185990535 1.4182048041800
## [10,] 1.1978146655416 -0.334282600760 -0.098623083129 1.2056156139656
## [11,] -0.5172287920297 2.685570236402 0.039388449558 -0.4278300555666
## [12,] NA -1.040357307551 1.260875482213 -0.1180250179796
## [13,] -0.2806237725337 -0.506550295958 NA -0.4495315299133
## [14,] -0.3927485331598 NA -0.592916075516 -1.2605485344288
## [15,] -0.1011434294252 -0.437247022298 0.609000391516 2.3380705439855
## [16,] -0.1381158205008 2.127391664069 0.384726533129 1.0915166950165
## [17,] -0.6383886653303 0.106150740225 -0.985504706206 1.1763571673982
## [18,] -1.6280955312273 NA -1.620755651694 0.9340579918886
## [19,] 0.6263818133794 1.528299754139 -0.784631692310 0.9717858325529
## [20,] NA 0.983265460444 NA -1.3124958812488
## [21,] 0.1243450404831 -1.296394429723 -0.027542133566 NA
## [22,] NA 0.136463164238 -1.106693714407 NA
## [23,] 0.6611793515421 NA NA NA
## [24,] NA -0.755550218837 NA NA
## [25,] NA NA 0.080234517006 -0.7662738396198
## [26,] 1.1027529230767 NA -0.186238840510 -0.1183274772490
## [27,] 0.0211360524192 0.674149350806 NA 0.8189743854791
## [28,] NA -0.652186136741 -0.554134576657 NA
## [29,] NA 0.918387088005 NA NA
## [30,] 1.9713836798394 NA -1.706358244027 NA
## [31,] -0.3060299371511 NA 0.314635652118 NA
## [32,] NA NA 0.150455203363 NA
## [33,] 1.4528873705055 0.366327488717 NA 0.6011196731667
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##	[34,]	-0.5399771132941	0.403224603867	NA	-0.4553527318424
##	[35,]	0.8781133247048	NA	0.925851184020	NA
##	[36,]	-2.4962696937714	-0.984084423426	-0.632150651064	-0.7146394144521
##	[37,]	NA	1.178594293438	-0.525083961512	NA
##	[38,]	-0.3086529005993	NA	NA	-1.2220220327457
##	[39,]	-0.7249516054401	-1.231807885528	0.253558679920	0.2245746808783
##	[40,]	NA	NA	1.433829819154	NA
##	[41,]	0.6575475231802	0.723698188585	0.507239608472	0.1717329825639
##	[42,]	-0.2024106935939	0.549345732504	NA	-2.1530918556740
##	[43,]	-0.0426529294205	-1.011564804017	1.723919276320	-2.0626309362233
##	[44,]	-0.2938184979744	-0.162700802188	2.453013524134	1.7405511437202
##	[45,]	NA	0.540331480219	-1.349568529076	-0.5216265913928
##	[46,]	-1.2124781509995	-0.261923631015	0.476651374665	0.0399174197886
##	[47,]	0.4748596588300	0.939384100936	1.364440781115	NA
##	[48,]	-0.0367619844562	NA	-0.706537484490	2.3839642379569
##	[49,]	0.0512620221207	-0.015918805288	-0.682999975693	-1.5194973943860
##	[50,]	NA	NA	-0.715994262086	-0.7348964440136
##	[51,]	-1.9185708759409	NA	NA	0.1748343716236
##	[52,]	-0.9438794177343	-0.372888668944	0.118211344716	1.0943087923103
##	[53,]	-1.5447166717594	0.613363631609	0.358025423055	0.6007975842126
##	[54,]	NA	1.385352735571	0.622230486624	NA
##	[55,]	NA	NA	-0.096470653981	-0.8851766260556
##	[56,]	0.2094826726098	NA	-0.680889395170	-0.1815224114296
##	[57,]	-0.1543425003881	-0.428272651317	-0.240190629995	0.4526649766466
##	[58,]	NA	-0.941802326851	2.229019552384	-0.3361399998328
##	[59,]	NA	0.837737869248	-0.497151914378	NA
##	[60,]	NA	NA	NA	NA
##	[61,]	-0.7999288975141	NA	0.418342767135	NA
##	[62,]	0.3205643769663	-1.366548010141	-0.329300345305	NA
##	[63,]	-1.3374821363842	NA	1.014359390620	1.5648468731772
##	[64,]	NA	1.603377386704	2.275639562960	-0.6218438280020
##	[65,]	0.2824680794507	NA	NA	0.7089975591870
##	[66,]	NA	-1.769110593108	-1.163212290283	-0.9765744737120
##	[67,]	1.2002367224902	NA	-0.653894576970	-0.6416596271874
##	[68,]	1.4454844105028	-0.353248527725	-0.623074325166	-0.9102129449082
##	[69,]	-0.7378150123842	NA	1.028626123871	NA
##	[70,]	1.4615727826931	0.520174277380	NA	0.0645284754135
##	[71,]	1.1913665358635	NA	-0.098658888683	0.2481572805275
##	[72,]	0.3247910180274	NA	-0.730131415174	-0.1707248812674
##	[73,]	1.6484117431721	0.282341020133	-0.013086345597	NA
##	[74,]	0.9299615861334	0.646468215887	-0.356188844295	0.4585348253036
##	[75,]	NA	NA	0.579646551337	0.5850340231345
##	[76,]	-0.4142795484569	NA	0.616399044793	0.0020547402141
##	[77,]	NA	-0.326624985432	-0.324275972016	-0.5164385122766
##	[78,]	NA	-0.351872358047	-0.591489246038	-1.0894622777878
##	[79,]	0.5630896912249	NA	NA	2.5168093763557
##	[80,]	0.6306378638390	-0.230715597879	-0.580422174701	1.3826059937640
##	[81,]	-0.7545065657307	-1.419892412247	NA	NA
##	[82,]	-0.2147106815798	-0.893946026385	0.670219285022	0.6213907015685
##	[83,]	0.0830458353420	NA	NA	1.2277324218809

##	[84,]	0.0967079078226	-0.983192731211	-2.168966320796	-0.7628143545837
##	[85,]	NA	0.035526013545	NA	0.8898269751809
##	[86,]	NA	-1.290908487129	-1.244594249540	-0.7528373518956
##	[87,]	0.0843693471663	-0.011746560985	NA	-0.9845110713071
##	[88,]	-0.4322692920496	NA	NA	NA
##	[89,]	0.4337053949532	-1.465655380691	0.345154015182	1.7764714942142
##	[90,]	-0.9572763135799	0.371804153958	NA	-0.2650059403585
##	[91,]	-1.2119891400447	NA	NA	NA
##	[92,]	NA	NA	0.245339632768	-1.4917334797483
##	[93,]	NA	NA	NA	0.5508792174829
##	[94,]	NA	-2.309480080273	1.288854775426	-1.3864263035856
##	[95,]	1.4901999514499	-2.164251862141	-0.643657024572	-1.6251062005731
##	[96,]	NA	-0.098258054474	NA	NA
##	[97,]	0.9931239775192	NA	-0.750594591903	0.0994355820550
##	[98,]	NA	-1.803060082265	-0.879277945744	-0.9838707019013
##	[99,]	1.2866035262435	-2.048391630622	NA	-0.2872799487379
##	[100,]	0.6780591314351	NA	1.319424636344	0.4593820870744
##		[,5]	[,6]	[,7]	[,8]
##	[1,]	-1.4307781529872	0.3274163444336	1.4848617228315	NA
##	[2,]	NA	0.6509256596892	-1.8720674622450	-0.902356647417
##	[3,]	0.1556175167733	NA	1.2184258868422	-0.478665373424
##	[4,]	1.6332381185221	-1.6881531487164	NA	NA
##	[5,]	0.7392383785238	-0.5862726678076	NA	-1.195092293260
##	[6,]	1.0076888657579	0.4411110111624	0.9797406699267	0.144069654158
##	[7,]	0.3948029728297	0.1828447087691	NA	-0.319889735843
##	[8,]	0.7705610358586	NA	-0.1590655149255	NA
##	[9,]	NA	NA	-1.6144863349158	NA
##	[10,]	0.6288234339950	-0.8976613998979	1.5520790079246	0.953845632959
##	[11,]	-0.0597487884360	0.5013766505171	-2.1335335797178	0.433675037630
##	[12,]	-0.8047438808454	-0.8169741976497	0.3522235621736	NA
##	[13,]	NA	0.9341747221193	-0.3317681681148	NA
##	[14,]	NA	-0.1374784814985	NA	-1.561259508672
##	[15,]	-0.3990554143209	NA	NA	-0.660808854435
##	[16,]	NA	1.0195784513916	-0.3274519827052	NA
##	[17,]	0.1953719379762	NA	-1.4220611254008	0.249334215358
##	[18,]	NA	-0.8452354506553	-0.1152451597785	NA
##	[19,]	-0.9868548537907	-1.3874639633349	NA	0.249216713238
##	[20,]	NA	NA	2.0866366534865	NA
##	[21,]	1.2941786682357	-0.6521075917131	-0.4097309182423	2.478788335838
##	[22,]	-0.6060585117723	0.1287015738143	0.8709312466766	-0.627265246266
##	[23,]	NA	NA	NA	NA
##	[24,]	0.4349675237808	0.1769816419909	0.2315393999767	-0.240002442805
##	[25,]	NA	-0.0038489314604	NA	NA
##	[26,]	NA	NA	2.5029586952059	-0.474907296183
##	[27,]	1.2452936394457	-0.9539609652628	NA	0.516044635774
##	[28,]	1.4480725774998	0.5299215226675	1.0199872990085	NA
##	[29,]	NA	NA	0.2841570590521	-0.776979649920
##	[30,]	NA	NA	-0.3112171353336	0.470725135516
##	[31,]	-1.5655235162876	NA	NA	-0.166133838850
##	[32,]	-2.2154689870338	-2.2670488212155	1.8141882347753	NA

##	[33,]	-1.3947175547760	-1.9661115056527	1.5055328944932	NA
##	[34,]	NA	-0.1848420260362	NA	NA
##	[35,]	NA	NA	NA	0.745113206248
##	[36,]	0.6633000579074	1.4179354674510	NA	NA
##	[37,]	1.6351060456298	-0.2703265940161	NA	0.730644125785
##	[38,]	NA	NA	-0.3485952284689	-1.224293091429
##	[39,]	1.0480286593073	0.3376623214817	NA	-0.601916608703
##	[40,]	0.3164017333701	-1.2246224785744	-0.7258696029095	2.042071595685
##	[41,]	-0.8130232957097	0.3073340383546	1.5260157384969	NA
##	[42,]	-0.0246896345877	0.2745645709781	0.2770373878366	0.258242310842
##	[43,]	1.7591524849745	-0.4127903069950	1.6520680333371	-1.044281118002
##	[44,]	NA	-1.7554665970245	0.5684992459729	NA
##	[45,]	NA	0.3153074146350	NA	-0.492091614640
##	[46,]	NA	0.4297138293936	-0.3316019841669	NA
##	[47,]	-0.9775293344304	-1.6727002678260	-1.5174265748805	-0.057066408480
##	[48,]	-0.8373810265163	1.7177241775699	NA	0.090516188599
##	[49,]	0.2446262922849	NA	0.0157554207000	1.309156845652
##	[50,]	1.3687290940711	-0.8723769269450	-0.0097473092453	-0.443154657670
##	[51,]	-1.8653940545855	-1.2678042495275	-0.8122943768094	-0.888636639578
##	[52,]	0.1358251765188	NA	NA	1.466182677149
##	[53,]	-0.3753301965462	1.5783995631695	1.1539360032983	NA
##	[54,]	NA	-1.6448414374411	0.8046730626649	NA
##	[55,]	0.3660058637066	NA	-1.8128728321083	NA
##	[56,]	NA	0.4017231640750	-1.5163715597468	NA
##	[57,]	NA	NA	0.8300691752252	NA
##	[58,]	-0.4482923904513	NA	1.3086400925207	NA
##	[59,]	NA	NA	-1.5062092349310	-0.045932221826
##	[60,]	NA	NA	NA	NA
##	[61,]	NA	1.3610334850559	NA	-0.805670578859
##	[62,]	-1.4849305684118	1.9047809268529	-0.2623567844719	0.688899372594
##	[63,]	-1.1156294193801	-0.7850924453149	0.1054174989591	NA
##	[64,]	-0.5913050434916	1.3192068826452	0.3542005472030	NA
##	[65,]	NA	-1.2867204071235	0.4094272744744	NA
##	[66,]	2.1187180157360	NA	2.9846531466519	-0.211696183566
##	[67,]	-0.5519920594947	-0.8825176388887	NA	0.592562486164
##	[68,]	NA	NA	NA	NA
##	[69,]	0.0012585719216	NA	NA	0.564852613521
##	[70,]	0.4953887208646	-0.8734100677085	-0.7193167558393	-0.468383208416
##	[71,]	1.7505421092338	-0.1961333745399	0.0741404338925	0.060583635244
##	[72,]	NA	-2.0657427753419	0.2139775707540	NA
##	[73,]	NA	-0.9345668086107	NA	0.289974476909
##	[74,]	0.7868907664001	NA	-0.6734978240089	NA
##	[75,]	-1.0046094295569	0.2726020655129	0.4036941767798	NA
##	[76,]	-0.6448800679701	0.5034517050406	NA	-1.313411474310
##	[77,]	NA	-0.7842259466298	NA	NA
##	[78,]	NA	NA	0.6723811736680	1.488668810099
##	[79,]	0.1466554906918	1.2683253717684	0.0270201346631	-0.293484156897
##	[80,]	-0.1790865582640	NA	NA	-0.758560249732
##	[81,]	NA	-0.1652761299780	NA	NA
##	[82,]	-0.1221070097082	NA	-1.6046138258753	0.377834428531

##	[83,]	-1.1546797608730	NA	-1.7436475194736	NA
##	[84,]	0.3186708174387	-0.3964094247758	NA	-1.042219445321
##	[85,]	-0.2993396323607	-0.2397539816779	0.3314377891946	-1.819654670389
##	[86,]	-0.7054969492017	-0.0620671690154	NA	NA
##	[87,]	-2.8480800086993	0.1035779247185	NA	0.987968608921
##	[88,]	-0.1569410489561	NA	1.4623345263534	NA
##	[89,]	-1.1900101717940	0.8951562534673	0.5511402398713	NA
##	[90,]	NA	1.7121015007150	-0.2987707705214	0.010240473557
##	[91,]	-0.7630670708040	0.7388730873590	1.4273580243098	NA
##	[92,]	0.7150068043195	-0.4857021261537	1.5412850847069	-0.531865511991
##	[93,]	-0.7151128556734	NA	NA	NA
##	[94,]	NA	NA	-0.0453998589566	-0.937462659446
##	[95,]	NA	NA	NA	NA
##	[96,]	0.1630706705515	-1.0075035402212	-0.0157876188114	-0.072904157156
##	[97,]	0.6177549987514	-0.9272486172107	NA	NA
##	[98,]	0.0800297130847	-0.8001757464797	-0.0413511878479	NA
##	[99,]	-1.3339413928880	1.3820695560032	0.3530660097787	0.204530508714
##	[100,]	-1.0272585403399	NA	-1.1397860851322	-0.354588763785
##		[,9]	[,10]	[,11]	[,12]
##	[1,]	1.538799567692	0.1155887924022	0.433987977061	NA
##	[2,]	0.362536686925	NA	-2.184071489977	NA
##	[3,]	NA	0.2833344852575	NA	-0.925246505928
##	[4,]	NA	-0.7298254442679	NA	NA
##	[5,]	NA	NA	0.146324401857	-0.624917767044
##	[6,]	-1.577727464186	0.2743253908748	-0.586050920439	0.399006686857
##	[7,]	-0.349654194870	NA	NA	1.605519727237
##	[8,]	0.027514099120	-1.1652107324896	NA	-0.078897536604
##	[9,]	-0.278507027026	NA	-1.833052964887	NA
##	[10,]	2.095055468592	NA	NA	0.742186579937
##	[11,]	-0.886639475784	NA	-0.079225250622	0.218217750656
##	[12,]	0.157238562240	NA	-1.434888427308	-0.144414939456
##	[13,]	NA	0.5875140368328	NA	-0.622632959526
##	[14,]	1.021093541120	NA	1.245105708087	NA
##	[15,]	NA	-0.5443320845416	NA	0.005516370420
##	[16,]	NA	NA	0.963250945797	NA
##	[17,]	1.871315635924	-1.6718293401696	NA	0.845818321898
##	[18,]	NA	-1.0239136218394	1.611468953163	-0.247808659318
##	[19,]	-1.048033282405	0.0354943293995	-0.463102314423	-1.102736113708
##	[20,]	0.883368762684	-0.4581857699735	NA	NA
##	[21,]	-0.817712328359	-1.5448849320580	-0.484079889052	-1.253020675432
##	[22,]	NA	-0.2016803061150	0.762103997334	1.702592107693
##	[23,]	NA	1.0738152615821	NA	0.717384061079
##	[24,]	-0.770381880591	1.2719173578672	0.443897426040	0.468014245923
##	[25,]	-1.057318806235	-0.4075166583328	NA	NA
##	[26,]	2.386093902292	NA	NA	NA
##	[27,]	NA	1.6008657067603	-0.210484640743	-1.497117085936
##	[28,]	-0.700151350997	NA	0.662606309076	0.554994553821
##	[29,]	NA	NA	1.362498602587	-0.651343157879
##	[30,]	NA	NA	NA	NA
##	[31,]	-0.444694846382	0.2372843842805	NA	1.418241750746

##	[32,]	NA	1.3381042065828	-1.495532029902	NA
##	[33,]	-0.218319778793	-0.9871810871844	NA	0.017311402164
##	[34,]	-3.303434235977	-1.0599744139594	0.853041152322	NA
##	[35,]	NA	NA	0.564260718951	-1.553446489616
##	[36,]	NA	NA	0.334460369117	1.052519776887
##	[37,]	1.048931680107	1.2003114505993	NA	-0.495975084390
##	[38,]	NA	-0.0221858733309	NA	NA
##	[39,]	NA	-0.4636225606896	NA	1.173062398183
##	[40,]	NA	NA	1.091379582243	NA
##	[41,]	-0.684658616815	0.0530629929220	0.294104916049	-0.683422344245
##	[42,]	-0.085921062112	1.8190993523638	1.351006974458	0.826396395047
##	[43,]	-1.885175785901	NA	-1.241934156551	NA
##	[44,]	-0.594301021309	NA	-0.099630522582	-1.720177843518
##	[45,]	-0.219287644691	-0.2651297392769	-0.595245812931	NA
##	[46,]	-0.254698655757	-1.7913859175465	-0.908645003829	-0.521227390577
##	[47,]	NA	NA	-0.810317400589	0.149978574719
##	[48,]	-0.063453864923	-0.1671024998457	-1.979624180373	0.041005560814
##	[49,]	NA	0.3534241984046	-0.065996095115	1.722482948843
##	[50,]	NA	NA	-0.657596048990	1.221178919239
##	[51,]	-0.917506957502	0.4072146156721	NA	NA
##	[52,]	-0.188193272735	NA	NA	0.441992590378
##	[53,]	0.223596442155	NA	-0.399344687257	-0.200141621627
##	[54,]	-0.821685892872	NA	NA	-1.147383198760
##	[55,]	-0.814570138979	1.7196918446844	NA	0.839148619675
##	[56,]	1.019802540263	-0.9369281677536	0.048796730812	1.065831886642
##	[57,]	-0.529388576050	0.0505419868713	0.152128353522	NA
##	[58,]	0.176605371067	NA	-0.987889402759	-1.647936170044
##	[59,]	-0.843471936452	0.0973419346074	0.161978784272	2.151242573850
##	[60,]	NA	0.9503438155590	NA	-0.054031106242
##	[61,]	0.019110464242	NA	NA	0.687037074036
##	[62,]	0.882881769521	-0.5813968970056	-0.203200194133	NA
##	[63,]	1.758750605372	NA	NA	-2.984248501568
##	[64,]	0.040384646482	-1.5693185169414	NA	NA
##	[65,]	NA	1.4448689636893	-0.770701098684	NA
##	[66,]	-0.856843768257	0.5536451082769	NA	0.689630149119
##	[67,]	1.268963476486	0.1501950606233	NA	-0.877837635760
##	[68,]	NA	0.0733011433020	1.505322191693	NA
##	[69,]	0.912711628874	NA	-0.237468823676	2.332080684674
##	[70,]	1.934894928883	1.2372479562266	NA	0.366004368023
##	[71,]	NA	-0.7240165676924	0.079139321198	NA
##	[72,]	-1.108599939074	NA	-0.229390314713	-0.668117051147
##	[73,]	1.155085928309	1.3013843993501	2.308873728620	NA
##	[74,]	0.771290510744	-0.1344657030732	0.355187068991	0.379594887326
##	[75,]	NA	0.3011419085423	NA	-0.668782117109
##	[76,]	1.235204918421	NA	NA	0.890153926812
##	[77,]	-1.445893248907	-0.9492228154297	NA	NA
##	[78,]	-0.359427165491	0.6496569426033	0.916691076574	0.137988374777
##	[79,]	-0.550822762970	-0.6889800424990	-0.562859162975	-0.561444228904
##	[80,]	NA	-0.4971319418939	NA	-0.217888393522
##	[81,]	0.176125416017	0.8566341185591	1.009251715478	NA

##	[82,]	-1.100106710784	-0.0097517708978	0.347762922012	NA
##	[83,]	NA	0.5374951489325	-1.175210564546	NA
##	[84,]	0.590638410959	0.3346786604535	-0.302479882523	0.452914848204
##	[85,]	0.784102565074	0.4799735962627	-0.037818198303	-0.079368158629
##	[86,]	0.362002226508	1.0022177374709	0.310865241650	-0.960974041485
##	[87,]	0.942141905469	NA	-1.969108760650	-1.786870507692
##	[88,]	-0.662793511337	0.7735707511988	-0.122414628435	1.017215378916
##	[89,]	-0.588443910880	NA	NA	0.642999742623
##	[90,]	-0.307996925935	-0.6237988865770	0.662440465624	0.387710667033
##	[91,]	-0.540964924218	0.1495218193390	0.134290370495	NA
##	[92,]	0.035326193375	-0.6810991099503	-0.029150143766	-0.070411515917
##	[93,]	NA	-0.0633407408816	NA	0.340196362606
##	[94,]	-1.284679956084	-0.9163109696112	NA	1.319058812727
##	[95,]	0.700940072638	NA	NA	0.544573970985
##	[96,]	-1.216884881687	-0.0987879891418	-1.063175901884	NA
##	[97,]	-0.058201615291	-2.6894343584471	-2.189041898110	-2.363263686856
##	[98,]	-0.533688162141	NA	NA	0.219723322027
##	[99,]	-0.112414565574	NA	0.073230819567	NA
##	[100,]	-0.530097722462	-1.1621165319217	NA	NA
##		[,13]	[,14]	[,15]	[,16]
##	[1,]	NA	-0.788465978437	0.1865710854342	1.085805331804
##	[2,]	NA	0.942155061996	0.0932670474196	NA
##	[3,]	-0.747571176875	1.242953599587	NA	-1.039005895132
##	[4,]	-0.240829217361	0.370582398980	NA	0.759868700246
##	[5,]	1.958654332008	0.595624165777	0.8951222669791	1.139036612778
##	[6,]	-0.074597490319	-0.118543531035	-0.3057662213184	1.065342214463
##	[7,]	0.429546856402	NA	NA	-1.003448732715
##	[8,]	-0.872532589579	NA	1.1261232799702	0.342939303759
##	[9,]	-0.170812317103	-0.343256989494	NA	0.511326894614
##	[10,]	0.597028620092	NA	NA	NA
##	[11,]	NA	NA	-0.2286368638416	NA
##	[12,]	0.395653241929	NA	-0.0543835170146	0.866950333655
##	[13,]	NA	-0.073811520606	0.9361464692332	NA
##	[14,]	NA	NA	NA	-1.279415834902
##	[15,]	1.024109204693	1.479797865260	-0.1528129873532	0.939430687946
##	[16,]	NA	-0.348675426371	-0.6364641019845	0.501767267095
##	[17,]	1.366112344311	NA	-0.2968816740396	-0.241286113895
##	[18,]	0.607601909724	1.921027244052	0.3939873226386	0.020996692249
##	[19,]	-0.396707573694	NA	-0.7541817723399	1.616786242355
##	[20,]	0.678983259291	-0.758109919710	-0.6333539841300	-1.106096919198
##	[21,]	NA	NA	NA	1.296533533165
##	[22,]	NA	NA	1.5086695791466	NA
##	[23,]	NA	-0.873194687663	-1.1487377353903	NA
##	[24,]	NA	0.337666305107	0.5926642362688	-0.123264395380
##	[25,]	NA	-0.851209648937	1.0891006029815	1.047637497891
##	[26,]	NA	NA	NA	NA
##	[27,]	-0.559964559512	-1.442081520619	0.0249197093639	0.308808688192
##	[28,]	0.435994303134	NA	NA	-0.372951751134
##	[29,]	0.814624651949	-1.884085137044	0.1680337448390	1.021533948405
##	[30,]	NA	-0.841997355882	NA	NA

##	[31,]	NA	NA	NA	NA
##	[32,]	0.797671449208	NA	NA	0.982522327411
##	[33,]	NA	NA	NA	1.398763919290
##	[34,]	NA	-1.752704195043	0.5764933075616	-0.405258711135
##	[35,]	-1.121108101438	-0.400866898631	NA	0.675900117307
##	[36,]	-0.735346077849	-0.843931388469	NA	-1.231102299844
##	[37,]	-1.113614512826	-0.325409328390	0.3333880903478	NA
##	[38,]	NA	-0.176849732541	2.2363168277838	NA
##	[39,]	0.661169358074	-1.365048440255	NA	NA
##	[40,]	1.787801235111	-0.350887709371	-0.3071760825798	0.083193194146
##	[41,]	-0.262946541281	NA	-0.0645454398193	-1.424853598386
##	[42,]	-1.154161166412	NA	-0.3949684138856	0.788347810326
##	[43,]	NA	-0.127174769922	0.0608759130104	-1.228891165832
##	[44,]	-0.134495644568	0.344029365346	0.2317794494634	NA
##	[45,]	NA	NA	NA	1.070498803907
##	[46,]	NA	-0.894740424171	0.9756490289230	NA
##	[47,]	0.692831036525	1.429982079801	-0.7635647255529	NA
##	[48,]	-0.769297356794	-0.779761758323	-1.4797941785175	-0.534633947809
##	[49,]	NA	0.664645008789	NA	1.199174850528
##	[50,]	-0.717678764486	NA	0.5176265996605	NA
##	[51,]	NA	-1.110094509210	-0.2870160506986	0.990501912515
##	[52,]	0.294897709680	1.122849315574	NA	NA
##	[53,]	NA	NA	NA	1.412287677605
##	[54,]	-1.688691254723	-0.230798125213	-0.7552866882132	0.093812731932
##	[55,]	-0.823158482528	0.257217547554	0.8796670705241	NA
##	[56,]	-0.296193632705	-0.964384060865	-1.0031146617011	NA
##	[57,]	NA	NA	0.8357337471828	-0.010491124531
##	[58,]	NA	0.764466301148	-0.5822573658099	NA
##	[59,]	-1.122602872472	1.985440262879	0.9397111236827	1.428671374036
##	[60,]	NA	0.216244325816	0.6415805523597	0.476845709430
##	[61,]	-0.400996484807	-0.720252119993	1.0126350588592	NA
##	[62,]	NA	-0.453278320902	NA	-0.217029994817
##	[63,]	0.479816354493	0.657010462528	NA	1.668653517012
##	[64,]	-1.781104681036	NA	NA	NA
##	[65,]	NA	-0.196000072252	0.0893342017411	NA
##	[66,]	0.670984241486	NA	0.4429548028254	-1.125564752031
##	[67,]	-0.610748708143	NA	-0.4905429577547	-0.293486745293
##	[68,]	-0.092895743872	-0.217686692624	-0.2385985893322	NA
##	[69,]	NA	1.999975954554	NA	NA
##	[70,]	0.426489724339	NA	NA	1.224790506845
##	[71,]	-0.067311809836	-1.543745272456	0.1145467670986	0.279076657768
##	[72,]	NA	1.211136410459	-2.4260411225210	NA
##	[73,]	NA	-0.782683320911	-0.2170528149502	-0.786567440696
##	[74,]	-0.751272628105	-1.132345498528	NA	-0.531559447288
##	[75,]	0.925358669013	-0.041211076604	NA	0.541445770119
##	[76,]	-1.029454555771	0.663561676341	-0.5328388191052	NA
##	[77,]	0.078348202216	0.337117237390	NA	NA
##	[78,]	-2.423111702466	NA	NA	0.131560810094
##	[79,]	NA	0.358815008601	NA	0.694386651350
##	[80,]	NA	0.087791610832	-1.4562674790724	NA

##	[81,]	NA	-0.656900939825	NA	NA
##	[82,]	-0.851344988327	NA	NA	-0.781658606001
##	[83,]	NA	-0.196876385024	NA	-0.948170049679
##	[84,]	0.886764219116	NA	NA	0.162647983594
##	[85,]	-0.394524494009	-0.295015889270	0.9963134969053	2.117912141096
##	[86,]	NA	-0.209233654397	2.4897698980224	NA
##	[87,]	-1.338623996715	0.911386007862	-0.0757428430188	0.470914858998
##	[88,]	1.015998744076	NA	-0.2425212001781	NA
##	[89,]	0.900990226440	-0.903715640100	-0.5936977671379	-0.274571441022
##	[90,]	0.100133662567	-1.105223206587	-0.3750421340508	-0.332621663947
##	[91,]	NA	-0.858567885135	NA	0.357642222217
##	[92,]	0.529683764401	NA	NA	NA
##	[93,]	-0.179401654343	NA	0.4891593522607	-0.529360125879
##	[94,]	NA	NA	NA	NA
##	[95,]	NA	2.158411490444	NA	-0.881481273570
##	[96,]	0.279554997231	0.331037832372	-0.0014542959208	-2.380990786404
##	[97,]	-1.522680446082	-1.399410377378	NA	-1.366236091607
##	[98,]	-0.900920939816	-0.531307058803	NA	NA
##	[99,]	1.244541078929	-0.380730637917	0.9528470370357	NA
##	[100,]	-1.503807578453	0.166279584758	0.2841528260436	NA
##		[,17]	[,18]	[,19]	[,20]
##	[1,]	0.543372669018	0.3317170393992	NA	-0.39184632321313
##	[2,]	NA	NA	0.025372730018	-1.14557736257418
##	[3,]	2.119808722361	1.1796025836275	-0.242790288259	-1.68466453929004
##	[4,]	-0.872082172738	0.0807506594181	NA	-0.38347778483495
##	[5,]	NA	0.6958373250297	-1.452765698191	NA
##	[6,]	0.742238147166	NA	-1.746563492097	NA
##	[7,]	NA	NA	NA	-1.15886666131689
##	[8,]	-0.313051392582	NA	NA	1.73075075427048
##	[9,]	NA	-0.8528698113751	-0.021801826961	NA
##	[10,]	-1.307872114039	-0.5407306084027	0.467461645164	0.56018724221810
##	[11,]	NA	-1.6939544825449	-1.777850383744	1.98212330269098
##	[12,]	-0.778246839792	1.1401629406979	0.474487724619	0.57317597458383
##	[13,]	-0.113067145040	NA	-2.007427549240	1.25872287856307
##	[14,]	1.047574190891	0.9782960852924	0.465658168632	NA
##	[15,]	-0.949904301376	1.4731783854636	2.347457927866	-0.24026106325645
##	[16,]	0.771453087849	-2.2602390705849	NA	0.26467108949807
##	[17,]	NA	1.0104744278382	NA	-0.24475224258049
##	[18,]	1.326266228164	-0.5096150006984	NA	NA
##	[19,]	-1.044156753223	NA	0.943007206111	-0.10190959742189
##	[20,]	-2.141781045711	-1.1740002614757	-0.625297894013	NA
##	[21,]	NA	NA	2.118659604465	NA
##	[22,]	NA	0.1985292618915	0.421406636537	NA
##	[23,]	-1.087219963568	0.2994592658209	-2.154116460185	NA
##	[24,]	-0.675890258625	-0.2850228808727	-0.331078265531	-0.00091799475442
##	[25,]	NA	1.7723223762245	-0.416964234530	0.49173798380695
##	[26,]	1.279661951636	0.4108494275433	-1.199847204294	-1.56216466681088
##	[27,]	NA	NA	NA	NA
##	[28,]	NA	-1.1762312885543	-0.821066506687	NA
##	[29,]	0.376478655206	-0.9165340283272	-0.109065022446	2.02942679756645

##	[30,]	1.315870597409	0.8211404243142	NA	NA
##	[31,]	-2.271489578960	1.1758355448816	-0.088791508069	-1.45751706437833
##	[32,]	1.298406834312	-0.6139476507961	1.624179958838	0.88592830459368
##	[33,]	NA	NA	NA	1.52899483731497
##	[34,]	-1.263810037171	-0.2798535133573	-0.426987443477	0.57042765373177
##	[35,]	NA	0.3694288060501	-0.571157030015	0.36777939034789
##	[36,]	NA	NA	-0.134030762762	NA
##	[37,]	0.091949907161	-0.6309426430415	-1.288526291088	NA
##	[38,]	-0.136702538330	NA	0.017310746861	1.63836100821348
##	[39,]	-0.318589593876	NA	1.212793501556	0.74839992862939
##	[40,]	-0.052567240305	1.2003580527939	NA	1.66145891292359
##	[41,]	-0.315813429085	0.0996982619132	NA	0.24144684276547
##	[42,]	-0.849977043606	-0.6404182329771	-1.034665134886	-0.37519645892240
##	[43,]	0.435073740337	0.1968994399395	-0.175553786161	NA
##	[44,]	0.676811525576	-0.8924324791966	-0.224869372047	NA
##	[45,]	1.310736372612	NA	NA	NA
##	[46,]	NA	-2.0156683828398	0.547244058250	0.53974882264684
##	[47,]	0.276132373017	0.4388183709914	-0.681366622734	NA
##	[48,]	NA	0.1670752452746	0.822188168455	NA
##	[49,]	1.226290066624	-0.7330137087448	NA	2.01346529256207
##	[50,]	-0.707257892813	0.2526348335039	NA	-0.01070110859429
##	[51,]	-0.567754726452	0.4149454251435	NA	0.06440088281945
##	[52,]	0.759160751046	-0.2036142850441	-0.217758447302	NA
##	[53,]	-0.520283943959	-1.0359247300938	1.237588669323	-0.17077177067653
##	[54,]	NA	NA	-0.744314660689	NA
##	[55,]	0.443258738693	NA	0.186558690701	0.25564078395382
##	[56,]	0.457733988660	NA	NA	-0.08713116503470
##	[57,]	0.742321849004	0.8046127518730	NA	0.33098577326394
##	[58,]	-0.375994481904	0.0783498885551	0.897308164635	0.47534285964288
##	[59,]	0.554291361371	1.2015405700533	-1.641968189041	NA
##	[60,]	-1.558725873350	NA	NA	NA
##	[61,]	1.688399340110	NA	-0.124560587803	-1.90760927858162
##	[62,]	0.332712563146	NA	NA	0.71266106150318
##	[63,]	-0.964571336312	0.4249178123655	0.144277756002	2.26446128029331
##	[64,]	NA	-0.9944841978977	-0.123065038546	NA
##	[65,]	NA	NA	-0.693374343351	-0.17250196251181
##	[66,]	0.344016409457	NA	0.780354943013	NA
##	[67,]	NA	NA	0.431749779796	-0.17773022263468
##	[68,]	NA	NA	-0.339434543815	0.08248338584531
##	[69,]	-0.835941494882	NA	-0.721856085017	NA
##	[70,]	NA	1.4921710413665	0.208404257735	-2.25773331517125
##	[71,]	NA	-1.1230298115054	0.276293720298	NA
##	[72,]	NA	0.0190023428273	-0.914250576670	-0.34114805649527
##	[73,]	0.026492881605	NA	NA	-0.94710678056671
##	[74,]	NA	NA	NA	-0.32300673064091
##	[75,]	0.136150945865	-0.0530123131129	-0.449655269237	0.97805827686820
##	[76,]	0.539991418133	1.6550580783088	1.505399011604	NA
##	[77,]	-0.546700615494	NA	0.955512065267	-1.05259180963565
##	[78,]	1.331067160129	-0.2865648021937	0.648923897261	NA
##	[79,]	0.168822765947	-0.0290122375340	NA	-0.98980117846140

##	[80,]	NA	0.2028141813735	0.240925752648	NA
##	[81,]	-0.072596864149	NA	-0.825928459361	NA
##	[82,]	1.495846775590	-0.0621956602840	NA	-0.68238503749805
##	[83,]	-0.019274950016	-0.8168051682031	0.045420920921	-1.12755719414793
##	[84,]	-0.195163799986	0.6429204981495	0.466327196650	NA
##	[85,]	-0.164014372139	NA	NA	0.61971376622530
##	[86,]	NA	NA	NA	NA
##	[87,]	NA	-0.5315150862326	NA	NA
##	[88,]	0.143003450671	0.0694462247051	NA	NA
##	[89,]	NA	NA	1.036098532898	0.66546534621994
##	[90,]	-0.442122946225	NA	NA	NA
##	[91,]	-0.279979069594	NA	0.798046736483	NA
##	[92,]	1.787251065488	0.3007953631853	0.561364679967	-0.45627966247395
##	[93,]	-0.842770344513	-0.5916089853188	NA	NA
##	[94,]	-1.080916247580	-0.0043044374176	NA	NA
##	[95,]	-1.253530677457	-0.2460404449748	-0.359395575507	1.89940335086995
##	[96,]	1.219394139490	-1.7241900376326	NA	-0.54352092299758
##	[97,]	-1.758029728093	0.9421767442882	NA	NA
##	[98,]	-1.456025044982	-0.0211313202152	NA	-0.73693989671088
##	[99,]	NA	-2.0695059393623	NA	-0.60569129209022
##	[100,]	0.337144223821	-0.6926027138454	-1.869455192661	-0.59806285224664
##		[, 21]	[, 22]	[, 23]	[, 24]
##	[1,]	NA	-1.310894141417	-1.5957032927253	-0.423273416893
##	[2,]	0.3757103808962	-0.368701264642	NA	-0.644316784606
##	[3,]	-0.5021102568587	0.452147940255	0.6339610579475	-1.192049805524
##	[4,]	NA	0.629094039380	-0.3120902403744	0.305593261561
##	[5,]	NA	NA	1.0995036337075	NA
##	[6,]	NA	-0.621246301135	-0.6155553441666	NA
##	[7,]	NA	0.075424345993	0.7301436505861	-0.356445542427
##	[8,]	NA	0.336812223031	-0.6199028267600	-0.273574356793
##	[9,]	NA	-0.515170466547	1.9368806981425	0.946875655826
##	[10,]	0.0735560941913	0.570771812317	NA	-2.523163429267
##	[11,]	0.7828871200794	-0.185689700091	NA	NA
##	[12,]	0.8100164656371	NA	-0.1702135936808	NA
##	[13,]	2.2041377421055	-0.255834486231	-0.9315860540571	0.749339053751
##	[14,]	NA	NA	-0.5725302432742	-0.605192404819
##	[15,]	-1.6855328134032	-0.087156141010	0.3634507102590	0.906186769401
##	[16,]	-0.2797731290528	-1.040689459976	0.1986317816203	-0.450634681206
##	[17,]	1.3363844935312	NA	-0.0066170030662	0.020390694060
##	[18,]	-0.8418018665280	-0.811045408843	0.6132034890871	1.444078904291
##	[19,]	NA	NA	NA	-1.253508335525
##	[20,]	0.0104512911261	0.048233409601	NA	NA
##	[21,]	-0.1522654912078	NA	2.8806166293945	0.183841872131
##	[22,]	0.6511055798706	NA	NA	-0.903218194261
##	[23,]	-0.3227360302173	-0.768544015427	NA	NA
##	[24,]	0.4186784646834	1.120298839165	NA	0.925421620301
##	[25,]	-0.0097248271395	0.307150180414	-0.0425582822925	-0.149250851365
##	[26,]	3.0268271457010	NA	NA	-0.313686122389
##	[27,]	-2.0457978105861	0.267523747549	NA	NA
##	[28,]	0.8275718766278	NA	NA	NA

##	[29,]	0.5528256299423	1.622236945789	0.3705053712812	0.245829807147
##	[30,]	NA	2.699185422844	NA	-0.185788422085
##	[31,]	0.3186906275654	NA	0.1304823861366	NA
##	[32,]	0.3162860245113	0.485851913445	NA	-1.044268736973
##	[33,]	0.3796709111985	-0.586085489016	0.4102661855222	NA
##	[34,]	0.5819885848770	1.183315043436	-0.3505857660029	-1.838692875483
##	[35,]	-0.2097925156623	NA	-1.3483682923356	NA
##	[36,]	0.2125102272192	-0.654180207819	-0.5395551171497	-1.376381267352
##	[37,]	NA	0.354639972924	1.7783383621856	0.319975141686
##	[38,]	-1.5107706928468	0.824379525261	-1.9405676939292	NA
##	[39,]	1.8364177682836	-1.406358797529	-0.7993364603510	0.136478560702
##	[40,]	-0.5026009417661	-1.097563998603	-1.1511313495308	-0.948212499529
##	[41,]	1.2898670682387	NA	0.1728942207872	0.425303120504
##	[42,]	0.6957400367539	NA	-0.8552450854084	NA
##	[43,]	1.3941649849576	0.788804216255	0.7292965187724	1.082223229745
##	[44,]	NA	NA	-1.2308780922576	0.302088148926
##	[45,]	1.4441031864320	-0.261592723347	-1.5200119361980	1.271299707603
##	[46,]	NA	NA	NA	-0.700769721111
##	[47,]	NA	-0.488732644516	-0.6529217873483	0.687339271417
##	[48,]	NA	-0.108740525758	-0.4280249980559	NA
##	[49,]	NA	-0.266442054721	0.0607596154196	NA
##	[50,]	-0.5912462762827	0.802045702383	NA	NA
##	[51,]	NA	2.077553273012	-0.2780731864605	-0.441797695209
##	[52,]	NA	-1.673289120270	0.2038695534860	NA
##	[53,]	1.4300323420638	-0.205990499938	0.0152110270318	NA
##	[54,]	-0.8613719263436	1.674005644188	NA	1.447962289836
##	[55,]	0.7615649896676	0.451647465760	-0.0525710488132	NA
##	[56,]	1.3782269698712	1.600265702273	NA	NA
##	[57,]	-0.2307889162098	-0.935821932204	-0.0983398349217	-0.156980290757
##	[58,]	NA	NA	0.1368964775235	NA
##	[59,]	-1.0945749733908	0.777166587910	-0.2254113740977	-0.121077401811
##	[60,]	-0.8150781689968	NA	NA	0.030496368862
##	[61,]	-0.0214056754804	1.053686805971	NA	-1.493304473079
##	[62,]	0.4605196068514	-2.537658059283	-1.6441263821697	1.496354490014
##	[63,]	-0.1842406308354	1.002742334088	0.0700908120131	0.112396360928
##	[64,]	NA	NA	1.3924448819925	-0.594192972620
##	[65,]	NA	NA	0.8272516640904	0.430597671758
##	[66,]	0.1967263341010	0.465807252499	-1.8344212340479	1.121814349710
##	[67,]	0.9337457586441	-1.672019353826	0.4906938478203	2.506798910516
##	[68,]	-0.6318368945643	-0.643835867388	NA	NA
##	[69,]	-0.4396731116501	0.358944565246	NA	-1.974119824335
##	[70,]	NA	-0.505183182903	NA	0.713825324544
##	[71,]	-1.2227560312538	1.683256954351	0.8671177295359	0.034931546264
##	[72,]	-0.7500703918122	NA	0.5860343712955	1.673084318436
##	[73,]	-1.4796653222317	NA	NA	NA
##	[74,]	-2.1519111552305	0.193186598163	NA	-0.995438691524
##	[75,]	0.2207149800595	-0.626439113122	1.9762208372277	-0.902399734105
##	[76,]	NA	NA	1.1336425607075	NA
##	[77,]	NA	-0.340598926940	NA	NA
##	[78,]	0.5797075585422	-0.113421736160	0.7874105579361	0.297226581229

##	[79,]	NA	0.501644515457	NA	0.814342157290
##	[80,]	-1.2903910701773	-1.100786830283	NA	0.469463351492
##	[81,]	0.4864398889156	NA	0.3545441490318	0.010039881441
##	[82,]	-0.7350701337455	NA	-0.7723526456292	NA
##	[83,]	0.2316313844135	-0.069074174176	0.5406885178149	NA
##	[84,]	0.4761757283116	0.242241143415	NA	0.366264852990
##	[85,]	0.3639536133934	NA	NA	-0.790482192398
##	[86,]	NA	-0.810845958411	NA	-0.520388850519
##	[87,]	NA	0.248740842369	-0.0851564509354	1.558680775851
##	[88,]	-1.7995183884890	-0.543762270538	1.2826546934718	NA
##	[89,]	0.7140456336071	0.265774576961	0.9065084004418	-0.443050986282
##	[90,]	NA	NA	NA	0.409475613478
##	[91,]	2.0331880917005	-1.146619608561	-0.4739819653558	-0.697551746298
##	[92,]	-0.0863661874167	-0.557110840992	NA	-1.482156104772
##	[93,]	-1.0529953093519	1.122512267769	0.1609435890355	NA
##	[94,]	-2.0264211098000	NA	-0.3498277098540	-0.444328581491
##	[95,]	0.8224563624529	0.749652924759	1.4686396282882	-1.752935627002
##	[96,]	0.7478293277491	NA	0.3208697563546	NA
##	[97,]	NA	-0.132596134702	NA	-0.805418788676
##	[98,]	-1.2425869782073	0.647429344460	0.1077514682176	-0.198623169292
##	[99,]	-1.0123081963781	NA	NA	1.588663799785
##	[100,]	-0.8769415247422	-1.713707341078	0.8277541599338	NA
##		[,25]	[,26]	[,27]	[,28]
##	[1,]	NA	NA	2.803624078176	0.145860177078
##	[2,]	0.5947804325934	NA	3.290537704299	NA
##	[3,]	0.7422543677280	-0.562143937506	1.418804302135	0.669518461123
##	[4,]	1.2269612614669	1.495072613719	NA	1.600274482341
##	[5,]	NA	-0.334778362686	NA	0.118546343055
##	[6,]	NA	-2.073895836400	0.895305051500	NA
##	[7,]	-0.7334421882213	-0.265106677668	-1.517019181329	-0.708783710553
##	[8,]	1.7642439052932	0.081906569384	-0.594116281638	2.223576406767
##	[9,]	-2.3868593908084	1.143935128167	0.784856634170	0.639319332934
##	[10,]	-0.3322181130762	1.064686684907	0.052118923869	NA
##	[11,]	NA	NA	NA	-0.337055555140
##	[12,]	NA	-0.094048754172	0.714573839995	NA
##	[13,]	-0.8273794716673	1.119556069675	-1.768339162324	0.345736615049
##	[14,]	0.8705301091909	0.851919573712	NA	0.316316800643
##	[15,]	NA	-2.011838941045	2.642192549752	NA
##	[16,]	0.5072666064746	1.555568462517	-0.950959063492	0.244544865044
##	[17,]	0.6767334005315	NA	-0.251493065806	NA
##	[18,]	0.1385213291337	NA	0.993987544131	NA
##	[19,]	1.3046913270346	-0.645284893046	1.066937012480	1.647053854882
##	[20,]	NA	-0.785589095456	NA	2.299297309864
##	[21,]	-0.9219713601402	1.024102347548	2.041279032815	-0.345487427680
##	[22,]	NA	NA	NA	1.902385970865
##	[23,]	-0.5474742564447	NA	-0.190526416041	-0.410381647522
##	[24,]	-0.4460615859014	NA	-0.105488791778	-0.620360036704
##	[25,]	-0.9325713253514	0.735010909253	NA	0.051984705885
##	[26,]	0.0029144441671	NA	NA	-1.503944599937
##	[27,]	NA	1.376997664820	1.069668612632	0.344436130154

##	[28,]	-0.7392756914092	1.164017663701	0.558988573279	NA
##	[29,]	0.8458374075724	NA	NA	NA
##	[30,]	0.3104505833655	-0.813531904778	NA	NA
##	[31,]	0.4099759330272	-0.346068874409	NA	-0.657499546184
##	[32,]	NA	-1.741437458364	1.303221777985	-0.365376771823
##	[33,]	-1.2878528707960	0.812773290134	0.599449675071	NA
##	[34,]	NA	-2.071387680662	-1.176901800118	1.669063493548
##	[35,]	NA	-0.537409746876	NA	0.021366823850
##	[36,]	NA	1.998217283880	NA	-1.425112527841
##	[37,]	-0.1030237705677	0.818484887236	0.116837968730	NA
##	[38,]	-0.4255021895553	NA	-1.011098327253	-0.700294147842
##	[39,]	1.0699720570011	NA	NA	-0.189418493779
##	[40,]	-0.0768486878989	-1.652439033207	NA	-2.275881921767
##	[41,]	0.1600430201572	0.613820771767	NA	0.932398854794
##	[42,]	NA	-0.174836568998	-0.826831580991	NA
##	[43,]	NA	1.111527136466	-1.159842351714	NA
##	[44,]	-0.2817905226199	NA	NA	NA
##	[45,]	NA	NA	NA	NA
##	[46,]	-0.2646750969730	-0.627392311107	-0.036390717820	0.156663410737
##	[47,]	0.6856025860163	NA	NA	NA
##	[48,]	-0.2435897481561	0.281395762975	0.644987780505	2.366668991774
##	[49,]	0.2598593089544	1.085996373865	NA	-0.698116672167
##	[50,]	NA	NA	-1.075615237523	-0.756838915827
##	[51,]	0.5020655645026	NA	-0.055079702598	0.185176992035
##	[52,]	NA	0.445995043181	NA	-1.483491372001
##	[53,]	NA	NA	-1.949146258740	0.353233642570
##	[54,]	-0.2038599515854	0.320766347430	0.522987415669	-1.107206216410
##	[55,]	NA	0.549849551957	0.283748960871	NA
##	[56,]	-0.8285623728901	-1.242872513372	NA	NA
##	[57,]	-0.1296601304376	NA	NA	NA
##	[58,]	0.3471426841563	-0.204364116322	-0.532763685538	1.166188738087
##	[59,]	-0.9275330497799	NA	0.247429648095	-0.461439125040
##	[60,]	NA	NA	-0.886264629950	NA
##	[61,]	NA	NA	-1.780097787152	-1.895438585734
##	[62,]	NA	NA	-1.239586870939	1.447987197853
##	[63,]	0.1750158619689	-0.960653682507	NA	0.665691976789
##	[64,]	NA	-1.818564978714	2.221195396569	NA
##	[65,]	0.8979183460827	-0.604378405512	NA	NA
##	[66,]	NA	0.675429931858	NA	NA
##	[67,]	1.0531168530921	-0.858201515318	NA	-1.051729283657
##	[68,]	NA	-0.415000485404	0.892588300662	-0.436720722301
##	[69,]	-0.3166894156812	1.638153252967	-1.448912150598	-1.324631621209
##	[70,]	0.6922794558644	-0.065035787292	0.518385340442	-0.289596286333
##	[71,]	NA	0.142196696263	1.059369458705	NA
##	[72,]	-0.8982594068157	NA	-0.198538027325	NA
##	[73,]	0.4399496183909	-0.656860374288	NA	NA
##	[74,]	-0.2215041520348	NA	-1.512850884743	1.194715714434
##	[75,]	0.0471693666789	-0.559740447740	NA	NA
##	[76,]	-0.6919426176603	-1.985907639581	0.918475261843	-2.104803063191
##	[77,]	0.5416629910212	-0.643309476996	0.285386544088	1.578212774007

##	[78,]	0.3124627823765	-1.204644411164	-0.473202891646	-0.089465837304
##	[79,]	-1.1988483477845	-1.145453437552	0.885428893370	NA
##	[80,]	0.4043500691307	0.506314713387	1.162185157168	NA
##	[81,]	-0.6206219196706	NA	NA	-2.015589215541
##	[82,]	-0.5296566207270	2.402234944753	-0.733026061980	-1.377266578069
##	[83,]	-1.0508184862765	NA	0.759038459093	1.169336376658
##	[84,]	0.0117810797102	NA	-0.022775423570	0.785460712274
##	[85,]	-2.0178966929119	NA	0.283580891525	0.733150219858
##	[86,]	-1.6486274270263	-1.304964926244	NA	2.283063237241
##	[87,]	0.0233989318364	-0.596613010748	-1.226024951660	1.608629501339
##	[88,]	NA	0.755874683821	NA	NA
##	[89,]	1.8154717946006	0.528841879226	NA	NA
##	[90,]	0.9137510101935	0.110503019152	0.043533263956	NA
##	[91,]	NA	0.442074069703	-1.019506865341	-0.478945761961
##	[92,]	-1.0447376721402	-2.042467863746	1.379763647919	-1.016960370774
##	[93,]	NA	0.479553104775	-1.359347102798	-0.017765499019
##	[94,]	NA	0.215683544488	0.851197866805	NA
##	[95,]	0.0407356256676	0.474308258585	0.052840917310	1.227439158839
##	[96,]	NA	-0.630956262799	0.688184888066	NA
##	[97,]	NA	-1.732849740746	-0.577295866711	1.949788870866
##	[98,]	-1.2130373753783	-0.108226474316	NA	-0.211476853914
##	[99,]	1.4048910597694	NA	-0.533102567266	-0.635336214206
##	[100,]	-1.6090966131768	1.119633518810	NA	0.384133435108
##		[,29]	[,30]	[,31]	[,32]
##	[1,]	0.8233717865648	0.261057765756	0.258113359293	1.744182686047
##	[2,]	1.1971852516804	-0.431980478667	0.203896624231	0.300488961140
##	[3,]	NA	NA	NA	-0.442169810364
##	[4,]	0.1857908655461	0.652479290592	-0.138269109306	NA
##	[5,]	NA	-0.278088911932	-0.687559686134	0.930469024477
##	[6,]	NA	-0.062538592633	NA	0.475307438895
##	[7,]	1.5564983834335	-0.405986924804	0.079467526219	NA
##	[8,]	0.7159601319897	0.321188060904	NA	NA
##	[9,]	-0.2441477250683	-0.176466349410	0.024828937536	-0.432156741534
##	[10,]	NA	1.724184190513	NA	NA
##	[11,]	1.5605311325289	NA	NA	-0.449519637364
##	[12,]	NA	-2.098734781347	NA	0.587906011900
##	[13,]	-0.3048337604992	NA	-0.238481304461	-1.114268137136
##	[14,]	NA	1.861692435804	1.441999720892	NA
##	[15,]	NA	0.470269294161	-0.688572231078	NA
##	[16,]	-1.4327418448794	-0.886296977057	1.272723879400	-1.251158756026
##	[17,]	-1.0559470476161	NA	NA	0.187144501363
##	[18,]	-0.8824548923038	-2.235376707253	0.362399465966	NA
##	[19,]	-0.7132329955075	-0.195007930718	NA	NA
##	[20,]	-1.2540184849230	0.674897305168	-0.261089444594	-2.644842191825
##	[21,]	NA	NA	0.196852811862	-0.226918206125
##	[22,]	NA	-1.266491885328	0.798658532133	-0.624006409651
##	[23,]	0.5015578819958	0.176884580909	-0.670810680969	0.090598239299
##	[24,]	NA	NA	0.144263503673	NA
##	[25,]	NA	1.074213227345	0.961140075304	NA
##	[26,]	0.9483272931456	0.342195742987	0.235633919177	-0.643749783271

##	[27,]	-0.5489805628209	-0.740260031976	-1.784878531774	-0.785802232279
##	[28,]	-0.8172291635033	-0.063283609960	2.421874539469	0.946293989974
##	[29,]	1.0397401867423	NA	NA	0.511859997686
##	[30,]	0.5280476112508	NA	0.890281005047	-0.215240286448
##	[31,]	0.2106060755457	0.224663452080	2.118982210476	NA
##	[32,]	NA	-0.321167943047	-0.379761947686	0.672525289481
##	[33,]	-0.2622454562814	-1.099253595909	0.988471730465	NA
##	[34,]	-1.8738466610997	-0.169452210295	1.074342926555	NA
##	[35,]	-0.3519196654188	NA	-0.620741856647	-1.133136942953
##	[36,]	NA	NA	NA	NA
##	[37,]	NA	NA	1.300968171065	-0.328515775359
##	[38,]	-0.0542562224197	-1.279084260009	0.330226714940	NA
##	[39,]	NA	NA	NA	NA
##	[40,]	-1.1288081278958	0.677757645157	NA	0.184428016000
##	[41,]	0.4445940735760	-1.027524829296	NA	NA
##	[42,]	NA	0.027788532132	NA	NA
##	[43,]	0.6622284629217	2.657265012876	-0.054455253535	0.122096829914
##	[44,]	0.2756409827243	0.584767089727	-0.966003122624	0.261445647572
##	[45,]	-1.7969954311250	1.047184199204	NA	-0.353619497335
##	[46,]	0.7647902929672	-1.041599207037	-0.273099430865	-1.375527684641
##	[47,]	-0.0223520493907	-0.676311425509	0.151577836654	0.439840061524
##	[48,]	NA	0.361468211725	NA	NA
##	[49,]	-0.2029785636419	1.477521241349	-0.354015946299	NA
##	[50,]	-1.1857280295779	NA	NA	NA
##	[51,]	NA	-0.428241526789	NA	-0.825960548450
##	[52,]	-0.6280794408635	0.697755881467	NA	NA
##	[53,]	NA	NA	-0.467148239538	-0.760338046852
##	[54,]	-0.4853313155430	0.863331282466	0.350139914654	NA
##	[55,]	NA	NA	NA	NA
##	[56,]	-0.1000289551688	0.010042948379	0.033011986230	0.089560113098
##	[57,]	1.0116597435425	0.063117717055	0.314747364593	-1.207191889141
##	[58,]	NA	NA	NA	-0.990097402777
##	[59,]	0.0457439293721	-0.673737705660	NA	0.018208403887
##	[60,]	-0.7185294062953	1.776922194982	0.729872723010	NA
##	[61,]	0.1560699461441	0.436788590221	NA	-0.414338666528
##	[62,]	0.5518829926970	1.129925267009	-1.707370452058	-0.161795238224
##	[63,]	NA	NA	2.022392335964	NA
##	[64,]	-1.1967880777798	NA	-0.037144806251	-1.542918082561
##	[65,]	-1.3511032577397	0.269530070779	-0.485271475805	-2.660688266466
##	[66,]	-1.1734803775539	0.284359888731	-0.510996559348	1.433484782335
##	[67,]	NA	-0.655721088057	1.378902017545	-2.279217921675
##	[68,]	-0.1671877482197	1.140710258376	1.142486566568	-1.914337853336
##	[69,]	0.2449472569299	-1.824800148989	-1.157979583271	NA
##	[70,]	0.1078426625512	-1.163282615344	0.670187576284	NA
##	[71,]	0.8126840103322	NA	-0.229254576607	NA
##	[72,]	0.4946700720563	0.622589196671	-0.653126496983	NA
##	[73,]	-0.4583531211601	-1.334581421343	-1.917322074042	-1.260849124549
##	[74,]	NA	-0.347448898274	1.361312278661	1.299197336835
##	[75,]	NA	-0.105361392593	-0.173017557639	NA
##	[76,]	-0.7070235047242	NA	0.941147118455	0.187586398249

##	[77,]	-0.5060791442874	-0.812751080295	-0.231363508703	1.045816123586
##	[78,]	0.8884103109872	-0.529597251192	NA	-0.816373526115
##	[79,]	NA	0.088266382122	1.040973896743	0.565959336496
##	[80,]	NA	0.074365019497	-2.120253411916	0.871918407401
##	[81,]	-0.2335398145460	NA	0.528180370789	-0.105589517392
##	[82,]	NA	1.758840664108	-0.454131281121	0.851587858145
##	[83,]	-0.0055205738593	NA	-2.385807259073	-0.674671749572
##	[84,]	NA	NA	NA	NA
##	[85,]	-0.8276253582839	NA	-0.621210781670	NA
##	[86,]	NA	0.372101463594	-0.848939493929	0.658608742956
##	[87,]	-0.7812248847233	2.800788022390	0.200609447408	-0.819292462716
##	[88,]	NA	2.274657429753	0.127867026702	0.526293228411
##	[89,]	NA	NA	-0.019655684506	-0.251588685687
##	[90,]	NA	NA	2.041529880400	0.215170832566
##	[91,]	-1.3105901340268	-0.017807442399	NA	-0.719673435904
##	[92,]	-0.0873818070010	-0.884892674345	0.303157807477	NA
##	[93,]	NA	0.117783284299	NA	1.262158324217
##	[94,]	NA	-0.037511821209	NA	-0.211937006994
##	[95,]	NA	-0.130466374497	-2.185869413458	NA
##	[96,]	0.3868927667593	-0.676867503263	0.271844652317	NA
##	[97,]	-0.8949963971631	NA	-0.320799021044	-0.166249241402
##	[98,]	NA	-2.641407428959	1.646847497312	-0.486249877613
##	[99,]	0.7139707416219	0.190381163549	-0.311448649875	NA
##	[100,]	0.8926897480349	0.248607966975	0.251563126381	-1.528793350524
##	[,33]		[,34]	[,35]	[,36]
##	[1,]	-0.807509308244	NA	2.506237023220	-2.513456323201
##	[2,]	1.516438600309	NA	0.785176689182	1.004336274420
##	[3,]	1.242801401940	0.28238818993615	NA	-0.176138377017
##	[4,]	-0.764633481955	NA	-0.083651678519	0.636908008075
##	[5,]	NA	1.15340014217763	0.255707971020	-1.737822425810
##	[6,]	NA	-0.80824184152590	NA	-0.276321816139
##	[7,]	-1.186264119940	0.74476706584761	-0.483041901931	1.824423961309
##	[8,]	0.947717311979	-2.08693292776896	NA	-1.193208653055
##	[9,]	-0.029264616882	NA	0.385035426818	-0.010145284660
##	[10,]	0.273331713195	-0.33772337397845	NA	-1.032836929799
##	[11,]	-0.459786299356	0.61480960645179	-1.329161353193	NA
##	[12,]	0.655740302754	NA	0.092654920253	0.292152154429
##	[13,]	NA	-0.03151478187065	NA	0.527857508529
##	[14,]	2.507660450377	-0.98467650807803	NA	NA
##	[15,]	NA	-0.77710291355883	NA	NA
##	[16,]	-0.275941558969	NA	-0.328524981644	1.047557490506
##	[17,]	-0.592430478687	NA	NA	0.365306764503
##	[18,]	-0.438573970817	-0.37355302868519	NA	0.992774881503
##	[19,]	1.406220945896	0.20328292014351	NA	0.380769995218
##	[20,]	-0.633276971768	NA	2.737059534478	1.233156754849
##	[21,]	0.905171163664	NA	0.126071849183	-0.550936990885
##	[22,]	-0.747499169052	NA	0.241628655138	-0.297849832606
##	[23,]	-0.011131927772	-0.27529626214158	NA	NA
##	[24,]	2.009339022907	-0.77478746692962	NA	-0.849237997363
##	[25,]	1.737645212696	-1.28312871760087	-0.451981989369	-0.502869775697

##	[26,]	-2.222751121264		NA	-0.785584322547		NA
##	[27,]	-0.279281941169		NA	0.159091771420	-0.744538537858	
##	[28,]	1.690469568155	0.18702591493873	-0.966988035789	-0.143412042732		
##	[29,]	NA		NA	NA		NA
##	[30,]	0.777558343684	0.39906858505026		NA	0.914079487180	
##	[31,]	1.556012866277	1.19512797630182	-0.092324677266			NA
##	[32,]	-0.894190402628	-1.21289727106083	0.648830328379	1.276591250678		
##	[33,]	0.923389045038	0.44919007535822		NA		NA
##	[34,]	0.033704591994	2.07143124345585	0.450678077856			NA
##	[35,]	-0.918711305976		NA	NA	0.842069453019	
##	[36,]	-0.457315029513	-1.52930698517863	-0.575314924268			NA
##	[37,]	NA		NA	1.152264098387	-0.562152725095	
##	[38,]	0.982152839155	-0.45823013025359		NA		NA
##	[39,]	0.672298874192	-0.33404868624487	-0.600021890403	2.128426438948		
##	[40,]	0.148535467496	0.18153909923513		NA	-0.299629864198	
##	[41,]	NA		NA	-0.811563421173		NA
##	[42,]	NA	0.03727548714816	0.148855709681	-1.875571069216		
##	[43,]	-0.480794754429	0.57691304246837	-0.174200841594			NA
##	[44,]	NA	-0.38850455172879		NA		NA
##	[45,]	NA	-0.13584990009621	-0.935793338637	-2.311056710566		
##	[46,]	-2.249630575986		NA	NA	0.809625817337	
##	[47,]	-0.549567426984	1.22772075631527		NA	2.447199281951	
##	[48,]	0.343078143762	0.84061998723649	-0.529915421870	-0.763061167468		
##	[49,]	NA		NA	0.574351257899	-0.674121867016	
##	[50,]	-1.339393879748		NA	2.453382755682	-0.237594956608	
##	[51,]	NA		NA	NA		NA
##	[52,]	1.783304136692	0.79236013926571	-2.492633770762			NA
##	[53,]	-0.460244352109	-1.27871260666828		NA		NA
##	[54,]	-0.058132018464	0.24040180876612		NA	1.752590719269	
##	[55,]	0.961116274129	1.19179593475239	-1.066848364859	0.033598193406		
##	[56,]	NA	0.53356677609261		NA	0.032470298366	
##	[57,]	NA		NA	-1.351788388847		NA
##	[58,]	-1.129200138477	-2.34773625029266		NA		NA
##	[59,]	0.144066451945	0.52444370114473	-1.106193092072			NA
##	[60,]	-0.628590694984		NA	0.798448995926	0.026480085914	
##	[61,]	0.807488758472	0.29650320623343	1.824546666593			NA
##	[62,]	0.326044267762	0.52412045506532	0.140838989744			NA
##	[63,]	NA	0.59394960311999	0.265430866667	0.852237105790		
##	[64,]	0.829172345296	-1.44494190751738		NA		NA
##	[65,]	NA	0.53921801299269	-1.068298026363	1.645090045463		
##	[66,]	-1.107863240134	-0.07239064680613	-1.175881215488	-1.260569449311		
##	[67,]	0.035578900051	-0.67164812997893	0.069026653748	0.452018951824		
##	[68,]	-0.128353060919	0.77692561789365	2.046594381011	-1.789784586707		
##	[69,]	0.843513765359	0.76589558079868	-0.609792725224			NA
##	[70,]	-0.562206974273	-0.33324670893932	0.165843759518	-2.746675945863		
##	[71,]	0.508559855643		NA	-0.392518273555	0.638588922775	
##	[72,]	-0.736477301419	-0.31809787436542	0.726163827252			NA
##	[73,]	2.110021727123	0.17212755075637		NA	0.129125980671	
##	[74,]	-0.806311984971	2.03770821293951		NA	-1.355451761191	
##	[75,]	0.733101263669		NA	NA	0.632113242563	

##	[76,]	-0.944836986249	-0.30236705327256	-0.821379618187	1.087051664422
##	[77,]	-1.260960244147	0.75832214415967	-1.316747354976	NA
##	[78,]	NA	NA	-0.200097797072	NA
##	[79,]	-1.283459602606	0.57287762655441	-0.050343744584	-0.442708227454
##	[80,]	-0.023974749881	-0.90493474211783	-2.184294543312	0.066037116743
##	[81,]	1.442008064323	0.00272039733666	-0.742875839561	-1.722199741955
##	[82,]	-0.280701884785	NA	NA	0.206914496416
##	[83,]	-0.735928407143	-0.37197789212832	-0.995765575201	NA
##	[84,]	NA	NA	-0.168592828837	-0.013717110536
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##	[86,]	-1.439098447444	-1.66307088563618	-0.861083546006	NA
##	[87,]	-0.287061034866	-0.77938659309374	0.860794105044	NA
##	[88,]	-0.373557403746	NA	NA	0.623186090839
##	[89,]	NA	1.81987494170774	-0.173168016618	NA
##	[90,]	-1.349925673796	-0.70623959859172	-0.372196680191	NA
##	[91,]	0.842416365106	NA	-1.588503615536	NA
##	[92,]	1.677376139024	-0.46858572555151	NA	-1.206542407594
##	[93,]	0.135902309404	-2.55079357848281	-0.700191114075	NA
##	[94,]	-0.277978363947	1.34076493703172	NA	NA
##	[95,]	NA	1.66158422145029	-0.887153515749	1.298643728711
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##	[97,]	NA	-1.32859228885886	2.150444197436	-2.805910091892
##	[98,]	0.962688255040	-1.10927320875575	NA	-0.180168507861
##	[99,]	-0.255583130604	-0.34575739213626	0.783813823968	1.310889782688
##	[100,]	0.358501680529	0.41215421413433	-0.309367952425	-1.383639357362
##		[,37]	[,38]	[,39]	[,40]
##	[1,]	NA	0.197723021543	NA	NA
##	[2,]	0.458209302501	NA	1.262318746812	0.8600775973225
##	[3,]	NA	-1.052539180567	1.870665040172	-0.3011206869224
##	[4,]	0.240998094386	-1.072906322791	0.146603776537	-0.0671478370932
##	[5,]	1.330156408619	0.925363136520	NA	-2.3223439433343
##	[6,]	0.186870853036	0.668611327102	NA	0.3566075474853
##	[7,]	0.647847346733	0.085636066633	NA	NA
##	[8,]	NA	1.757859801511	NA	NA
##	[9,]	-0.675928020725	-1.740580858526	NA	NA
##	[10,]	0.411749321760	NA	1.565241510659	-0.2537037605614
##	[11,]	0.860839334594	NA	-0.748722515061	NA
##	[12,]	0.141517424960	0.397270063363	-0.172644137626	0.0066010300808
##	[13,]	2.477525525183	NA	NA	NA
##	[14,]	NA	-0.431862443450	1.736638525445	-0.1832064841357
##	[15,]	0.333267462553	1.863656408852	-0.174142277792	NA
##	[16,]	NA	1.365289149655	0.453901637250	NA
##	[17,]	NA	-1.086402770676	-1.017118200805	NA
##	[18,]	-0.123891070696	NA	-1.015999799085	-1.4072227554244
##	[19,]	0.087502983970	NA	-0.941945492263	-1.2049449350974
##	[20,]	0.181208968497	-1.121058451597	NA	0.0684639458387
##	[21,]	NA	-0.979422978609	NA	NA
##	[22,]	-0.269039832269	2.267124163180	0.202532571010	NA
##	[23,]	0.241774604158	NA	NA	NA
##	[24,]	1.746815910201	NA	NA	-0.6943043829700

##	[25,]	1.054238180730	NA	-3.284471186842	-0.0373081289565
##	[26,]	0.951640625082	0.684299299686	-0.819658538397	NA
##	[27,]	-0.691470175565	NA	NA	-0.8809676251328
##	[28,]	NA	NA	0.295298185020	-0.5028133941280
##	[29,]	-0.567859083803	NA	-1.156075687775	0.5774960102447
##	[30,]	0.144855861052	1.437993756311	0.186452177146	-0.0016314471699
##	[31,]	0.211203527220	0.805248611130	0.113373753028	NA
##	[32,]	0.888349024082	0.487924882241	0.170668444017	-0.8372269924052
##	[33,]	NA	NA	0.092718821197	NA
##	[34,]	NA	NA	NA	NA
##	[35,]	-1.297667901621	NA	-0.312814238589	-0.2397128894895
##	[36,]	-0.036445578503	-1.704524355396	0.490527496448	0.6503143490121
##	[37,]	0.864234314287	NA	0.527950735465	NA
##	[38,]	NA	1.022086370255	NA	NA
##	[39,]	-0.353699004346	1.363462365465	NA	-1.1581306793686
##	[40,]	-0.543282381470	2.644991934217	-1.383600224953	1.0782988088709
##	[41,]	0.111190665984	0.262474327830	0.418003208304	1.3902342202934
##	[42,]	1.198853290317	NA	0.148726571251	NA
##	[43,]	0.898120624445	0.996137816971	-2.701502132042	-1.4461983575938
##	[44,]	0.316721084077	0.034701670788	-0.833816080585	-2.5674973712101
##	[45,]	-0.551039364584	-0.519040744500	-0.101042156177	NA
##	[46,]	-0.550429548386	1.963288006821	-0.454738832984	0.7129776568196
##	[47,]	-1.070600468202	NA	0.741263677847	2.3369177436054
##	[48,]	NA	-0.587662135793	0.364730187977	-0.6790431368885
##	[49,]	NA	-1.945342546275	NA	NA
##	[50,]	-0.424187942496	-1.048767698089	NA	-0.0794027796792
##	[51,]	NA	0.835745437608	1.077790031896	0.1325871494713
##	[52,]	NA	2.689932070973	NA	NA
##	[53,]	NA	-0.730821309659	-2.364943443639	NA
##	[54,]	0.340036925379	0.538232138474	NA	NA
##	[55,]	0.884767791433	0.961117254069	-0.653963545506	NA
##	[56,]	NA	-0.110326231579	0.096238600622	-1.5127096570599
##	[57,]	NA	-0.457957211976	-0.714238007939	-0.0631336894280
##	[58,]	0.159657816804	NA	0.513531698881	NA
##	[59,]	0.319943594904	NA	NA	NA
##	[60,]	-1.759053805984	0.463421588167	-0.889638726447	-0.4396254722506
##	[61,]	-0.628093452541	-1.438521064367	-0.051622268867	0.5587465280037
##	[62,]	0.413052297851	0.758015019214	NA	-0.2902923804682
##	[63,]	-0.065112384808	-0.883823778842	-1.893331771335	0.1477119703434
##	[64,]	NA	-1.572893877570	-0.500038592980	-1.3882745690998
##	[65,]	0.074711347500	NA	0.346468734764	-0.8500850437326
##	[66,]	0.847269952049	-0.073691786587	0.045697652854	0.0104720558939
##	[67,]	0.913028547452	-0.014201352482	-1.745355797546	NA
##	[68,]	0.883040378573	NA	NA	0.4346381454957
##	[69,]	NA	NA	-1.004953138204	0.6846775082139
##	[70,]	0.086598239471	1.608113853962	-1.237411870630	NA
##	[71,]	-0.544331497471	NA	-0.064331372964	1.1685094349766
##	[72,]	NA	NA	0.208019032304	NA
##	[73,]	0.308629383236	-2.704285037110	-1.574563811690	NA
##	[74,]	-0.306675985878	-2.382095714867	-2.434732467739	-0.5755513673781

##	[75,]	0.601124062169	NA	-0.355487611848	-0.6836199254675
##	[76,]	0.563640874934	NA	-1.330180322866	NA
##	[77,]	NA	-0.267554506706	0.616056651245	-0.7229176732349
##	[78,]	NA	0.431956352804	-0.833438631467	1.0988481228331
##	[79,]	-0.477817536556	1.818022595181	NA	NA
##	[80,]	0.367663265155	NA	NA	-0.5576838812295
##	[81,]	-2.176337027692	-0.067055626001	-0.636862663506	0.3088549343126
##	[82,]	0.739164555498	-0.412526115752	-1.765023828543	-0.7572930548963
##	[83,]	NA	-0.092689578981	-1.592113906796	NA
##	[84,]	-0.903174243049	NA	0.627281060191	0.2187272031439
##	[85,]	NA	1.099458924626	0.906158178623	-0.2209783010877
##	[86,]	NA	-1.408218259642	0.035822788773	0.4223850518923
##	[87,]	NA	-0.666291695271	-0.601415678416	NA
##	[88,]	-1.173717359269	NA	-0.345608655272	-0.2752633472721
##	[89,]	-0.664754093970	0.930519846666	-0.019063494092	-0.3983808996507
##	[90,]	-0.086867248775	NA	0.560541789457	-0.4029105835713
##	[91,]	NA	-0.840280093575	NA	0.1450514624257
##	[92,]	0.987975328792	0.326451612672	1.220568822818	-2.3478230829755
##	[93,]	0.937090614810	-3.146073238931	-0.338219959994	0.7391304304190
##	[94,]	-0.114523328409	0.871351822858	0.048265585018	NA
##	[95,]	NA	-1.046871604899	NA	1.0647823459183
##	[96,]	NA	-0.965493803648	0.404274496158	NA
##	[97,]	0.376029492805	NA	NA	1.5978254753465
##	[98,]	-0.369894640529	0.687293445652	-1.840026067401	1.4906543060909
##	[99,]	-0.307544391250	-1.559456944702	NA	-1.0622856758867
##	[100,]	NA	0.657465482310	NA	-2.2736615121107
##	[,41]		[,42]	[,43]	[,44]
##	[1,]	-1.2418724177920	0.3590423219891	-1.9906352091008	0.4961294249164
##	[2,]	NA	NA	0.3501229728008	1.2428231923625
##	[3,]	1.6969099311809	NA	0.5646500380599	-0.4439315661447
##	[4,]	NA	NA	-1.1178462963061	0.9238560429351
##	[5,]	0.2561751207073	-0.1537799694872	0.5493601487932	-0.1357923318738
##	[6,]	0.8748128558752	0.1496073337198	0.9889893454151	0.5781427402719
##	[7,]	NA	NA	0.1422688096794	1.1885515963839
##	[8,]	NA	0.7001112453015	-0.4376893783753	2.4493665011237
##	[9,]	0.1959446535055	1.2388725872836	1.4680802636419	-0.4386598857345
##	[10,]	NA	1.2870755084928	-0.9344226154941	0.1211203575050
##	[11,]	NA	-0.7252291429427	NA	1.7607785721054
##	[12,]	0.5508263417593	NA	NA	NA
##	[13,]	-0.4852907134354	NA	2.3027895134029	0.2269424518378
##	[14,]	-0.1735921919935	-0.7015688771457	NA	-2.5469548616161
##	[15,]	-1.2519164188085	0.2616261690105	NA	NA
##	[16,]	-0.6163161726414	0.1332652963238	0.6085950257275	0.5197900827843
##	[17,]	-0.9324802311583	0.1662170616141	-0.1421920408290	1.2842936244701
##	[18,]	-0.4743896636838	0.0092518556915	NA	NA
##	[19,]	NA	0.4957775811645	-0.0713240807437	1.5668479204068
##	[20,]	1.5071417989857	-0.4459843981896	1.0047487937310	NA
##	[21,]	0.2394951403827	NA	1.7440786357142	NA
##	[22,]	1.6638641744822	-0.9163291206983	NA	-1.2160636403012
##	[23,]	-0.5708253033626	NA	0.0678462540122	0.3466416915138

##	[24,]	0.9308813641720	1.5786597972567	NA	NA
##	[25,]	-0.5259038905112	0.0325113874930	-0.0274771420593	0.0205818158816
##	[26,]	-0.1411219237688	NA	-0.5074197596658	NA
##	[27,]	NA	-1.2237049688912	1.1437480343884	NA
##	[28,]	NA	-0.0401860219945	-0.6572160766444	1.5257118900436
##	[29,]	0.0831905217018	-1.5929620787407	0.2356503743351	0.3349068010250
##	[30,]	0.1562024625516	NA	-0.1850852482804	-0.1383592244822
##	[31,]	0.1792312629008	-0.7280662343915	1.9614832475848	-0.6842923459731
##	[32,]	0.6939224063529	-1.8836650128020	NA	-0.6337011963009
##	[33,]	-0.9837521189305	1.3176066348385	0.3861396118779	0.4683105821997
##	[34,]	0.7739861566420	NA	NA	-0.4311274625405
##	[35,]	-0.2885488136705	-1.3175968243461	NA	-0.3506332840465
##	[36,]	-0.4744246628857	0.1268873148082	2.1493517606027	0.2091951114010
##	[37,]	NA	0.9549391527849	NA	-1.0862161419737
##	[38,]	NA	NA	-0.5620493444720	NA
##	[39,]	0.7573143308990	-0.3772849330879	-1.1096182652106	0.4598037703186
##	[40,]	-0.6935764685048	-0.1329154240989	-1.0354406314018	NA
##	[41,]	-1.1650012760857	-1.7488782634403	0.5417492618967	0.9582009054407
##	[42,]	-0.4310686102181	-0.2902920874846	NA	0.8704371540353
##	[43,]	0.1630574048285	-0.7370346163701	NA	NA
##	[44,]	-1.5370412731321	0.2021167826515	0.3860551954174	NA
##	[45,]	-0.2382879887698	0.9315921064055	0.0431634823212	-1.7617884045605
##	[46,]	1.2141700548112	NA	-0.0486968790435	-0.0721808218484
##	[47,]	0.8991637973122	1.9833490239068	-1.1587692842278	0.6996201822907
##	[48,]	-0.9689295262352	NA	-0.3899323228110	-0.9649904820752
##	[49,]	NA	NA	NA	-0.5405897728873
##	[50,]	0.6119590536507	-0.8861150042223	0.2947755825003	NA
##	[51,]	0.2782209360159	NA	-0.9437009300900	0.2199454686993
##	[52,]	0.2437171004299	0.1288987729026	-0.6601550761780	-0.3112609213339
##	[53,]	NA	-1.8160851847966	0.0236072286421	-2.2861561121144
##	[54,]	NA	0.9747410977842	NA	-0.2526506109668
##	[55,]	-1.5575386481941	-0.1852792823878	1.0071580182159	0.4063835315995
##	[56,]	0.5460231815188	NA	0.3036588267848	0.9964018290818
##	[57,]	-0.5830746020621	NA	-0.1124940084476	-0.3864125052714
##	[58,]	NA	-1.3035137453789	-1.5139965863313	0.6338349453710
##	[59,]	NA	-1.0934051114175	0.0878656712784	NA
##	[60,]	NA	-2.5678740857703	NA	-0.1938014672629
##	[61,]	0.8204268325878	-1.8481058473116	NA	-1.1776720006959
##	[62,]	-0.2445272011697	-1.0564850611940	NA	-0.1998771275654
##	[63,]	0.0276906558837	-2.9394779771242	-0.5317575371819	0.3949348976943
##	[64,]	NA	NA	NA	NA
##	[65,]	0.9328311270627	-1.2042351662511	0.2903387786570	1.0865850753405
##	[66,]	2.6375274460530	-0.6956989143866	-0.5667314747135	0.4788609572002
##	[67,]	1.6814459143116	NA	NA	NA
##	[68,]	-0.2919143482756	NA	-0.6365858022284	NA
##	[69,]	0.4430248463985	0.8627959299112	-1.2862774747571	-0.8784637931831
##	[70,]	0.2492082836518	-1.5923317111123	0.0056917300514	-0.0051337289794
##	[71,]	0.1313155003115	0.7750237968087	-1.6072005111881	-1.0031112083713
##	[72,]	-0.5048077898604	0.8555998647022	-1.0203425810515	NA
##	[73,]	-0.0762589931945	0.9593450982556	-0.6751489667826	-0.9644735215346

##	[74,]	-0.6722207256422	-1.4475008244096	-0.2452667608647	-1.4337429087506
##	[75,]	0.3778559541086	-2.1849915790332	-1.5761314539574	-0.8439902033106
##	[76,]	0.5325854893110	0.1200025695650	-0.5105563555520	-0.3737691557040
##	[77,]	NA	NA	0.0968218294183	-0.8701698433606
##	[78,]	-0.9733636439385	NA	NA	-1.5549149464378
##	[79,]	-0.4804171738093	1.3944554445459	-0.4069283377604	-0.3215802796092
##	[80,]	-0.2108690941307	-0.4646043920333	-1.2499786762597	1.3408480164855
##	[81,]	-0.7155516519182	0.8483456519500	NA	0.9760586749235
##	[82,]	0.6280911385818	0.3145456524800	-0.7608241836748	-1.0077282088140
##	[83,]	-0.1624552390498	-1.2524326200859	1.2680131536496	-2.6497531833830
##	[84,]	NA	NA	NA	NA
##	[85,]	-0.8450882668551	0.0141454570069	NA	-0.4818465261373
##	[86,]	NA	-0.8899494534966	-0.8554096895324	NA
##	[87,]	0.0088348847773	0.2464040937701	-0.4427977931669	NA
##	[88,]	-0.0317664499194	NA	-1.3041179390260	NA
##	[89,]	0.6361339549281	NA	0.2705584456686	0.0137127635722
##	[90,]	-0.3104101417947	-0.5602475338601	NA	NA
##	[91,]	-0.5121299422345	-0.0355225904059	-1.5513254901745	-0.4021447799467
##	[92,]	-0.2738067197685	0.0411458798135	-0.9630906532730	0.1820406102266
##	[93,]	-1.5741311513249	NA	-0.3430262385574	NA
##	[94,]	-1.0218882547428	1.4959037232247	-0.6677291210783	-0.0723874611629
##	[95,]	-1.2004268818469	1.2669347852876	NA	NA
##	[96,]	0.5208068110173	NA	-0.9039100364676	0.9348708704923
##	[97,]	0.2531262238052	1.6723642494735	-1.7055600748150	0.0585682249881
##	[98,]	NA	NA	NA	-2.1383735915834
##	[99,]	-0.7256957965881	0.4009294887709	0.8130945691284	-0.5157540688282
##	[100,]	0.9609197136961	NA	NA	-0.7556800562155
##		[,45]	[,46]	[,47]	[,48]
##	[1,]	NA	NA	NA	0.304508361712
##	[2,]	-0.090628333004	NA	0.6028906936285	-0.508909435482
##	[3,]	0.848865632190	1.183511275917	0.8763066643372	-0.909210885645
##	[4,]	-0.596053581167	NA	NA	-1.117535959549
##	[5,]	NA	NA	NA	NA
##	[6,]	0.654399465506	-0.674006308832	NA	-0.598949828993
##	[7,]	1.288312117129	1.089248902646	-1.1678116972491	NA
##	[8,]	0.243397462721	NA	-0.6308236171403	-0.956517642217
##	[9,]	-0.053828177718	0.868830348045	0.0745699131727	NA
##	[10,]	0.373753985884	1.556176838183	0.9111662029722	-0.830949433471
##	[11,]	0.400335943119	0.965084478277	1.2292147984046	NA
##	[12,]	1.131516745625	NA	-0.5455852232133	0.150932071170
##	[13,]	1.141145181862	NA	-0.2211776968277	0.844700885110
##	[14,]	-0.636298630805	NA	NA	-1.122851322530
##	[15,]	1.330436777233	-0.706755499662	1.5668844067823	0.267620959513
##	[16,]	-0.600636408446	1.113827214915	-0.1145654525441	0.819730341931
##	[17,]	0.957891567623	-0.211920116343	0.8567584649757	NA
##	[18,]	NA	0.017392789528	NA	0.985378190309
##	[19,]	-0.604656273572	-1.430639063109	NA	1.328097133727
##	[20,]	-0.489213563529	-1.502775201925	0.8217033600760	0.313819889316
##	[21,]	NA	-0.180556459788	1.0900683038083	NA
##	[22,]	1.417658158600	0.852163790977	-0.7030856195332	-0.919471168892

##	[23,]	0.565613514682	NA	1.1808288704190	NA
##	[24,]	-0.344217348825	-0.501939601126	-1.2413514422387	NA
##	[25,]	0.746517151355	1.131382201689	1.9777362844827	1.327217809813
##	[26,]	-0.386700855136	1.160438359907	NA	-1.146784505673
##	[27,]	NA	NA	0.0808891680985	NA
##	[28,]	-0.350671772406	0.278605911000	-1.9602703502830	NA
##	[29,]	NA	-0.320500033323	NA	0.959658225382
##	[30,]	-0.182903261355	-1.397161763755	0.2187846867386	-0.825356317347
##	[31,]	NA	-0.748575923523	2.0539784263626	NA
##	[32,]	NA	-0.617116483469	0.4404801883992	NA
##	[33,]	-1.135402268873	NA	-0.3867416081196	NA
##	[34,]	-0.663624924742	1.341591005140	-1.2537151198880	1.879354967273
##	[35,]	2.027912827222	-1.378342561180	-1.2695840257416	1.317696792548
##	[36,]	NA	0.237510642457	0.4411659160403	NA
##	[37,]	NA	-1.171117254894	NA	1.452619428900
##	[38,]	0.412333072903	-0.749432952661	-1.3598135826701	0.716990334733
##	[39,]	NA	0.583540721872	-1.5015707353052	-0.068337908553
##	[40,]	-0.633516242121	-0.419816683316	1.1538555981378	0.263561539084
##	[41,]	0.839193667631	NA	NA	0.747507111932
##	[42,]	-0.172412561533	-1.887924719303	NA	NA
##	[43,]	0.755327182764	0.577170712975	-0.2241586992651	1.919727429175
##	[44,]	-1.665822593466	-0.560033069909	-0.8240719584389	NA
##	[45,]	-0.567729276788	-0.674932935990	0.7895379134591	0.443976015935
##	[46,]	-0.720128562487	NA	0.9477700112435	-2.288731340372
##	[47,]	-0.884568948684	-0.430989754234	1.6747325862931	-0.993218308838
##	[48,]	-0.452077305552	-0.610074994118	-0.0019271471920	NA
##	[49,]	-1.580622119233	-1.000704198116	NA	NA
##	[50,]	0.972502573268	NA	NA	-0.361441713003
##	[51,]	-1.388190963402	-0.427891616048	NA	-1.222924572412
##	[52,]	NA	NA	NA	1.850413919865
##	[53,]	0.803238558963	NA	0.9441871780494	0.299598856037
##	[54,]	0.816587455921	0.172374523647	1.0315145162489	-0.928168217914
##	[55,]	-1.722539286790	0.815242202065	0.7082660664646	NA
##	[56,]	NA	NA	0.8631466006388	NA
##	[57,]	-0.157844495925	-1.858034583656	NA	0.142715326207
##	[58,]	NA	-0.079804854215	-1.2125524572282	NA
##	[59,]	-0.851927202512	0.516086000486	0.6183434376371	0.669011675250
##	[60,]	1.183298512705	-0.990023735528	NA	0.195719702498
##	[61,]	0.035340917179	NA	-0.3267598066897	NA
##	[62,]	-1.199949789368	-0.325947628641	-0.1313205863920	0.122580397039
##	[63,]	0.039632882490	-0.446536788406	NA	NA
##	[64,]	-1.799492811970	0.046292771215	NA	-0.652423041427
##	[65,]	-0.683249617217	-2.076528035493	1.8648709867608	NA
##	[66,]	0.198949310159	-1.255062270808	-0.5573495867864	0.355361146829
##	[67,]	0.708072726658	-0.325126430427	-1.6852132824636	0.486327396230
##	[68,]	NA	-0.671481586715	NA	NA
##	[69,]	NA	0.587201721475	NA	NA
##	[70,]	0.146561934468	NA	-1.5336685679968	NA
##	[71,]	NA	0.504094661334	-0.9393395455761	NA
##	[72,]	-1.317064075999	0.230505064121	0.9257647026105	NA

##	[73,]	NA	-0.174479232385	0.7252563828378	0.617995944536
##	[74,]	-0.038526636623	NA	NA	NA
##	[75,]	1.233034129487	1.002205763657	-0.4716113566452	-0.040592245595
##	[76,]	NA	NA	1.0604063770701	0.181390437075
##	[77,]	-1.081996829230	-0.600579258169	1.7667257984211	NA
##	[78,]	NA	0.434742931239	0.2018413025485	-2.352640542717
##	[79,]	0.314000778918	0.336680532143	0.8711794392259	-0.153064596257
##	[80,]	1.116765626107	0.242720930362	-0.3161166105381	-0.245859620641
##	[81,]	-0.321349436083	-0.034744692368	NA	0.087181402606
##	[82,]	-0.762254789381	-0.693179113305	0.0503126496305	0.532659567489
##	[83,]	2.029580041026	0.543013810005	0.9837441810448	-0.247693613730
##	[84,]	NA	-0.192744841739	NA	-0.843388284589
##	[85,]	-0.866784595795	-0.682577646500	1.1583743832709	-0.161658697362
##	[86,]	-0.818998868434	NA	-1.0132529709459	NA
##	[87,]	-0.377113856368	0.728695366094	-1.4501658576076	-0.655745223565
##	[88,]	-1.677850444921	0.068831548846	-0.0552056751775	-1.464378329796
##	[89,]	NA	0.159411198212	-0.0689201206358	-1.103125635724
##	[90,]	0.295624419544	-1.073006880854	0.0501785292224	0.452331226888
##	[91,]	NA	-0.719019225859	NA	0.170822014347
##	[92,]	-0.216630910068	NA	-0.1172418974610	0.459659555972
##	[93,]	-1.419868785171	NA	-0.5154879140764	NA
##	[94,]	NA	-0.719894950229	0.6172330578494	-1.168281056907
##	[95,]	-0.994485564053	-0.883058163959	NA	-0.198026931549
##	[96,]	NA	-0.581528202057	NA	0.470364152544
##	[97,]	0.338572858845	1.601929264688	NA	1.066523677676
##	[98,]	NA	NA	0.0092939388943	0.835297535919
##	[99,]	-0.439238825645	NA	-2.1452780317020	NA
##	[100,]	NA	NA	NA	0.876016563117
##	[,49]	[,50]	[,51]	[,52]	
##	[1,]	-2.109808389062	-0.707773399792	-0.185417948766	-1.2609807704915
##	[2,]	0.595795583687	1.932986612928	1.356630113121	-0.4200048046469
##	[3,]	-0.750957521591	NA	0.035733600440	0.7828200662689
##	[4,]	0.694504100856	0.665021021566	2.752519026860	NA
##	[5,]	-0.459868985588	0.383181811317	NA	1.5075951577290
##	[6,]	1.593705555735	0.903281361762	0.371648973732	NA
##	[7,]	0.468165046965	-0.424196124923	NA	-1.1139389441242
##	[8,]	NA	-1.565218436628	1.975830722507	1.1742886440851
##	[9,]	0.347745412506	0.503655710633	NA	1.4507251128158
##	[10,]	-0.817439796505	-0.088234098806	1.108630837847	-0.0622017430963
##	[11,]	NA	NA	-0.303571460920	0.3502921751955
##	[12,]	NA	NA	-0.170342077859	1.6391038246771
##	[13,]	NA	1.148713937515	0.074757143437	-1.3568734893671
##	[14,]	-0.309723462953	0.824411970444	0.170410975563	NA
##	[15,]	NA	NA	-0.208052714863	NA
##	[16,]	0.029657041343	NA	NA	NA
##	[17,]	2.573262254501	-0.150310632695	NA	1.1309008278306
##	[18,]	NA	NA	-0.643934619970	1.1234425843425
##	[19,]	NA	0.103124761849	-0.182612371631	1.1895064643521
##	[20,]	1.920494646220	-0.341664373758	0.321558583624	-1.1258211494112
##	[21,]	-0.010322812186	NA	1.955105160121	NA

##	[22,]	0.254163552443	1.091632921039	-1.009817492378	NA
##	[23,]	1.512777589013	0.016689525284	-1.384374918885	1.3407978160420
##	[24,]	NA	-0.074573659798	-1.154121041808	NA
##	[25,]	NA	-1.490381133065	NA	-1.6926604491648
##	[26,]	NA	0.872665365055	-0.764656459530	-0.3622003321461
##	[27,]	-0.075263617818	NA	0.408002470966	-0.9839580443705
##	[28,]	-1.368224319642	NA	NA	-0.6691367314480
##	[29,]	-1.140278399598	1.550228488561	0.796281173154	NA
##	[30,]	NA	-0.389457154282	-0.558682990712	NA
##	[31,]	-1.490550707179	-1.139911493900	-0.233732843173	-1.4758675360973
##	[32,]	NA	0.231978994638	-1.414898575644	0.5132346779452
##	[33,]	0.540547554065	-1.984322127490	0.251270448053	-0.1290432737742
##	[34,]	-0.328503142740	0.551506619925	NA	0.8943956424504
##	[35,]	0.792590087465	NA	1.166246794286	-0.2855592703402
##	[36,]	0.193810733931	0.823153029321	-0.936640464571	1.1158433956242
##	[37,]	-2.686938339303	-0.991991536249	NA	-0.5101363950809
##	[38,]	-0.326799804620	NA	-1.620504794082	-1.2532937839305
##	[39,]	-0.678963425331	-0.515076391464	0.074199065894	0.9013873830273
##	[40,]	0.221285114075	NA	-1.029125098071	1.4357579193159
##	[41,]	-1.029325264800	NA	0.852310033920	-0.8330294987784
##	[42,]	-0.321801617306	0.890743808413	-0.254866695380	0.4216614769417
##	[43,]	-0.114740977271	-1.024453448117	1.564535462174	-0.1621962677467
##	[44,]	2.465599277614	NA	0.441758567673	NA
##	[45,]	-0.426384653379	-0.086143453295	1.417473922460	NA
##	[46,]	NA	-0.060162866304	NA	0.0129563671773
##	[47,]	NA	0.580920905859	-0.344601184684	-0.6695535580931
##	[48,]	-0.500437394590	0.169969638575	0.377769202450	NA
##	[49,]	0.647154143814	-1.233661571986	NA	NA
##	[50,]	NA	-0.453994345362	-2.290550243666	NA
##	[51,]	0.915531814664	1.040469141222	1.524072800479	1.2028589115386
##	[52,]	NA	NA	NA	NA
##	[53,]	1.729149278367	NA	NA	0.6293408004771
##	[54,]	NA	NA	1.793743489627	NA
##	[55,]	NA	-0.589952278968	NA	-0.0333801473413
##	[56,]	-0.155915124411	-0.729040637888	NA	2.5722407921157
##	[57,]	-0.444319300336	0.297467403939	0.585655390680	0.2611262548556
##	[58,]	0.386110074594	1.004264123625	-1.791296793624	-0.0033784393939
##	[59,]	1.369665222529	0.111945022975	0.034579124595	0.2561227713497
##	[60,]	1.283015334440	NA	-0.059177019070	NA
##	[61,]	NA	NA	-1.387835945546	-0.2566299199524
##	[62,]	0.077261219366	-1.104248241702	0.537493850056	-0.5164944577236
##	[63,]	-0.098774134321	-2.372188997476	-0.336011288434	-1.0687954873212
##	[64,]	NA	-0.502606111826	NA	-0.6883333863611
##	[65,]	NA	-0.983335377551	1.866158177134	1.3076238198613
##	[66,]	0.312643114166	NA	-0.956788789586	-1.8090752895049
##	[67,]	-1.605502819834	NA	NA	-1.5434168056796
##	[68,]	1.203634711501	0.739551120345	NA	0.5188079423582
##	[69,]	2.344380969221	-1.250436992222	NA	0.0855778178737
##	[70,]	0.239987143850	-0.039517401472	-0.111795073740	-0.9134237873120
##	[71,]	-0.921587917244	0.337811458693	-0.154739925627	NA

##	[72,]	0.281927532465	-1.086500809988	NA	NA
##	[73,]	1.566302287462	-0.819539101313	1.006291735345	0.1211283930681
##	[74,]	NA	-0.438680856025	0.679827678987	NA
##	[75,]	0.727892099189	-0.047155661523	-0.254655086049	0.0683450610064
##	[76,]	0.674633695533	-0.939843077779	NA	1.0325588608136
##	[77,]	NA	-0.471099648797	0.200853790123	0.1759210703444
##	[78,]	-0.776767932425	-0.963015508994	1.877331967578	NA
##	[79,]	-2.303818756627	0.689705646473	0.214561544924	NA
##	[80,]	0.308312516929	NA	0.613979144427	NA
##	[81,]	-0.188730581687	-0.113235407611	NA	0.7994999577966
##	[82,]	-0.444001043653	1.123513964483	NA	1.1521559805576
##	[83,]	-0.596701262616	0.754862928127	-1.119858268024	NA
##	[84,]	1.828815821347	-0.488956581539	1.706039408139	NA
##	[85,]	NA	-0.368293290095	-0.226522507040	1.6003582406573
##	[86,]	1.589917992159	0.525971011285	0.253692219807	NA
##	[87,]	NA	0.390186814120	NA	NA
##	[88,]	-0.716102215722	-0.396209601984	0.104889355965	NA
##	[89,]	-1.441330664950	-0.528275909598	-1.563314497033	NA
##	[90,]	0.115931980211	0.222711723576	-0.240365525308	-1.3470570504484
##	[91,]	0.524313172128	1.444700569715	NA	0.4012249182744
##	[92,]	1.843405860775	NA	NA	NA
##	[93,]	0.208250201483	-1.410271951506	-0.251530855561	1.5089052095295
##	[94,]	0.910539195243	1.188139336080	0.105194171473	-1.7488058143914
##	[95,]	0.096081591969	-1.811346131235	1.488591210617	NA
##	[96,]	NA	-0.045567135032	NA	2.6444412135386
##	[97,]	-2.383917221888	1.482943184348	1.508654528008	1.1261790848675
##	[98,]	NA	NA	-1.132285530736	1.7130190964921
##	[99,]	-1.900442673150	-0.248273201723	NA	NA
##	[100,]	-0.320924113562	-0.589204515053	-0.432581666532	-0.7137158493277
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##	[1,]	NA	0.9250022661491	0.6421656124651	NA
##	[2,]	-0.2155576289096	0.5215877948947	NA	NA
##	[3,]	-3.3427303305325	NA	NA	1.940772263258
##	[4,]	-1.4146464415343	NA	0.1869055332323	-0.347763452145
##	[5,]	NA	1.8622992897572	NA	0.048397081132
##	[6,]	0.7284950611444	0.0540196703670	-0.8870399940252	0.133784022149
##	[7,]	NA	0.5157813033482	-0.3423600690783	0.907331839523
##	[8,]	0.3085610879118	-1.0573235857073	-0.7685698453187	1.301373345920
##	[9,]	-0.0185583370662	NA	0.0059311011596	1.708184629661
##	[10,]	-1.3142495748792	NA	NA	0.145662021669
##	[11,]	0.8180167786739	0.1284399513879	NA	-0.238751542762
##	[12,]	-0.0439429017851	-0.3091456839215	NA	-1.032838181326
##	[13,]	-0.3008851885017	-0.3976695882421	1.1576387802493	-0.992986110849
##	[14,]	NA	NA	0.0581485882480	-1.461911059367
##	[15,]	0.4630954925375	-0.4553739429200	-0.2352529283398	0.235507123887
##	[16,]	0.5064400450454	-0.0673945945368	1.2190312100633	1.037500960123
##	[17,]	-1.8061986679557	NA	-0.8150845796030	0.219671859559
##	[18,]	0.9747363657705	-0.3995677815712	NA	0.473972174019
##	[19,]	NA	NA	NA	-1.751649510369
##	[20,]	1.6754939557072	0.8221390648439	1.3415825968721	-0.306778038758

##	[21,]	NA	-0.0557644985095	NA	0.449548917113
##	[22,]	-0.0397487332340	NA	-0.5761529360433	-1.339402310000
##	[23,]	0.4836018495074	NA	-0.3220679035312	0.476269080240
##	[24,]	-0.8760510940818	-0.3653241335534	-0.4705615494444	-0.109864186417
##	[25,]	-0.8217761058153	NA	0.1488896800298	-1.675085736674
##	[26,]	-1.3844664723278	0.0094457627237	0.3685803544565	1.091921284410
##	[27,]	NA	0.7339746326667	0.1367126214647	1.924348609006
##	[28,]	0.4085944349990	-0.7070953747602	0.3255474432076	-0.759959412303
##	[29,]	-1.2952426468589	NA	-0.3300168537640	-1.550381071788
##	[30,]	NA	1.2625672672421	1.0674283459889	-0.562704083492
##	[31,]	0.1455353879367	1.5663899346815	0.8664247211269	-1.721118524740
##	[32,]	-1.0869865174632	NA	NA	NA
##	[33,]	1.8623307422205	0.9155118313218	NA	NA
##	[34,]	NA	-0.6368822402050	NA	0.027930709707
##	[35,]	1.2933938234016	-0.0998173652646	0.3869201713677	1.473910286622
##	[36,]	-0.8695844188912	1.1940198885923	NA	NA
##	[37,]	-1.2614530741538	0.3503974859612	1.6344309608702	NA
##	[38,]	-0.6636082726982	-1.0296625403654	0.8304881613590	NA
##	[39,]	0.3198013764254	-0.4231775721363	NA	0.318796165106
##	[40,]	-0.0735330182623	0.2625050295684	NA	NA
##	[41,]	-1.3310071466432	-1.4144200626490	NA	-0.340352901630
##	[42,]	-0.3915212159922	0.5626540592439	NA	-0.281227943735
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##	[44,]	NA	0.1703943482558	-1.2200549130964	NA
##	[45,]	NA	NA	0.3916162916301	0.661559033694
##	[46,]	NA	-0.3141298295440	-2.3729551483732	NA
##	[47,]	-0.1348110179993	NA	2.3077377765525	1.462076882029
##	[48,]	NA	-1.7285345589302	-0.3901496317532	0.270149377648
##	[49,]	-0.8177655460281	-0.1520722481360	NA	0.728181110259
##	[50,]	NA	-0.0736336472123	NA	-2.457200161249
##	[51,]	1.4186446544401	NA	NA	0.389422521641
##	[52,]	-1.7387088750699	0.7966059540697	1.3726167706420	-1.485714757560
##	[53,]	-0.2566353881486	NA	0.6369224912989	-0.041270158511
##	[54,]	0.6353782153152	-1.0035885648324	NA	NA
##	[55,]	NA	0.5914607760011	NA	NA
##	[56,]	-0.6649254285231	0.3127705362422	NA	-0.070090092390
##	[57,]	-1.2522073497470	1.3051481935190	0.0498227089872	NA
##	[58,]	NA	-0.3298795848621	-0.7040655295618	0.012908007798
##	[59,]	-1.3255860135646	1.1144405824156	NA	-0.255532765811
##	[60,]	-0.4831583026337	0.0862347136687	1.0818526122302	NA
##	[61,]	NA	0.0737900647933	0.4725100824572	NA
##	[62,]	1.1087602908558	-0.5650535753169	-0.0991197532973	0.477739449658
##	[63,]	NA	NA	NA	-0.612644236535
##	[64,]	NA	-0.7878961638134	-0.1147427576244	0.086476288348
##	[65,]	-0.6592469935824	0.4475748003491	-0.2044846521729	NA
##	[66,]	-0.2240948440094	-0.1304082303781	NA	NA
##	[67,]	0.8428170731478	-0.7296250714067	NA	-0.509898474634
##	[68,]	NA	NA	-0.5552660310502	1.995223450540
##	[69,]	NA	0.2692340818245	NA	-0.377336067857
##	[70,]	-0.2670744745853	-0.1045639251422	0.7034160237622	0.851112293075

##	[71,]	-0.1172259901614	NA	NA	2.101028869609
##	[72,]	-0.9853832476037	0.3899158107680	NA	-0.442032526184
##	[73,]	1.4721243150893	NA	NA	0.254301916618
##	[74,]	1.3837450474497	1.3692685359451	NA	1.417401939391
##	[75,]	NA	-1.1093340405716	-0.8783981624533	-1.127918958180
##	[76,]	NA	0.5405214681846	NA	-0.900605341049
##	[77,]	NA	-0.5921945097035	-0.7650987067795	-0.840638548963
##	[78,]	0.3652393501629	0.6061306525306	NA	-0.613720524982
##	[79,]	-1.2899104618630	0.8974203838144	-1.4732147022229	-1.824259055028
##	[80,]	NA	NA	NA	-0.163531927483
##	[81,]	-0.4076868598951	0.7249444019269	1.3819694015940	NA
##	[82,]	NA	NA	NA	NA
##	[83,]	-0.4970237362302	0.3758676387152	NA	1.162772021748
##	[84,]	-3.1830560282809	1.3545144302012	0.3608154333662	NA
##	[85,]	0.1871096738514	NA	-1.3569789085987	-1.819577959874
##	[86,]	-0.2073407669518	0.4335541305910	-1.4100046871030	-0.511818936716
##	[87,]	-0.1332586667794	-0.2122767036527	-1.6933588379103	NA
##	[88,]	-0.0052889881749	1.2258106848566	-0.6173207890052	NA
##	[89,]	1.4445763892671	-0.0040171605167	1.9444591388424	0.277538808480
##	[90,]	-1.3266552523460	NA	-1.3261746204683	-2.638033478357
##	[91,]	1.8019991595869	-0.2634001509835	NA	NA
##	[92,]	NA	-0.6246958976465	NA	NA
##	[93,]	0.3019624409374	1.2672442063524	0.7642162168163	-0.221286816387
##	[94,]	-0.8630335821342	NA	-0.7215359617267	-0.255004511724
##	[95,]	-0.7819446014281	-0.5053297571353	-0.4858553464030	0.459593832484
##	[96,]	-2.5367583867708	-0.1860417269538	-0.7257728098808	NA
##	[97,]	-0.1366070098926	0.3081290342151	NA	-1.082055781289
##	[98,]	0.7132740780887	NA	-1.2339456179424	-0.217396475556
##	[99,]	0.6758015487952	NA	NA	-0.515105337348
##	[100,]	-0.8921881455060	-1.2407996889148	-1.5415440119355	0.573180065329
##		[,57]	[,58]	[,59]	[,60]
##	[1,]	NA	NA	NA	-0.544988136780
##	[2,]	-0.664985037668	0.658129754160	-0.01183390766711	NA
##	[3,]	0.184946820360	-0.383004034270	NA	1.258879839675
##	[4,]	NA	2.470662009035	NA	NA
##	[5,]	0.453449136326	-1.038301097210	NA	0.551461639231
##	[6,]	0.869478422189	1.891390982313	NA	-1.358213705328
##	[7,]	-0.371477050324	NA	0.68906568009932	1.313201112058
##	[8,]	NA	0.095401170474	1.25579515941417	0.035914773596
##	[9,]	0.119656799993	0.297171854054	-0.08022591155939	NA
##	[10,]	-1.535294840977	-0.495175948870	NA	1.552356976299
##	[11,]	NA	1.257659380706	-1.97509625915709	NA
##	[12,]	0.506919323739	NA	NA	NA
##	[13,]	0.674288010397	-1.572359866765	0.97639282494992	1.017997412443
##	[14,]	-0.031449792825	NA	0.36155460236056	-0.522390971148
##	[15,]	1.039115352067	NA	NA	NA
##	[16,]	-0.819525767422	-0.611134642059	NA	1.014543499659
##	[17,]	-1.041323032795	NA	1.01903574623215	-0.298930956519
##	[18,]	1.113695296033	0.117167823452	-0.57650685133163	0.414563785012
##	[19,]	0.560553772227	1.480991143201	1.38323000423286	NA

##	[20,]	-0.666584281552	0.834742329062	-0.84849840190211	0.880093424821
##	[21,]	-0.293711470062	NA	NA	0.159748157712
##	[22,]	-0.031637786879	0.232805613033	0.37743342411600	0.304054720595
##	[23,]	NA	NA	0.75625528305665	NA
##	[24,]	0.488128277725	1.192312674866	NA	-0.307882268157
##	[25,]	0.239328799935	0.517636223553	NA	0.042462277449
##	[26,]	-0.396143327228	0.868504873940	0.69854563594081	0.244714446556
##	[27,]	NA	0.091054953729	1.13662388313100	1.056928057027
##	[28,]	0.033272402670	-1.274986587485	NA	NA
##	[29,]	-0.272162685386	-0.408943938535	NA	1.578272643639
##	[30,]	-0.104374811743	0.534526136809	1.75516318617874	NA
##	[31,]	0.803441085637	NA	NA	NA
##	[32,]	-1.627099174044	-0.600653979489	-0.66319327531298	-0.426161501959
##	[33,]	NA	NA	-0.81225133363873	-1.309280326782
##	[34,]	1.640396555897	0.877714134975	NA	-0.080534113367
##	[35,]	2.410674671058	1.033836895714	-0.24050234956996	-0.121060640314
##	[36,]	-2.147482859257	0.207500337605	0.70970971810555	NA
##	[37,]	-0.280591937494	NA	-0.00037560687548	-1.375538758968
##	[38,]	-0.557590737043	NA	NA	1.022717510666
##	[39,]	NA	0.165200493540	1.18601220548145	-0.520790580073
##	[40,]	1.129131023573	1.141078600779	-0.45605064125019	NA
##	[41,]	NA	NA	NA	NA
##	[42,]	2.597141043567	-0.419709217519	-1.12053210988292	-1.554262853216
##	[43,]	-0.235997472006	NA	1.64659644866200	-0.717921219134
##	[44,]	-0.089493809864	1.207144438990	-0.73241763055851	0.562255769140
##	[45,]	-0.135838600437	-1.634327099662	-0.08089748994578	1.329938983331
##	[46,]	-0.239737828320	0.771580038831	NA	NA
##	[47,]	NA	NA	1.30564606159131	NA
##	[48,]	NA	0.121329071233	NA	-0.345932756589
##	[49,]	0.712571426640	NA	0.31553455226359	0.612893180522
##	[50,]	-0.458376503388	-0.182912878236	-0.52424329101582	NA
##	[51,]	0.123237436175	NA	0.05316341227265	NA
##	[52,]	-0.186687125139	NA	-0.25779021744624	NA
##	[53,]	0.359662971401	-0.231462132952	-0.91214914162691	-0.380443548683
##	[54,]	-0.244649988742	0.491201818072	1.98236656708824	-0.485746829856
##	[55,]	NA	NA	-1.09762354781117	NA
##	[56,]	-0.642086058068	1.061905720503	NA	-0.116381157186
##	[57,]	-0.027738044553	-1.500275584412	0.69442409672613	-0.091486621381
##	[58,]	NA	-0.276587401197	-0.01324512314993	-2.072354574275
##	[59,]	NA	0.037855586665	-0.04862341655366	-1.679849929030
##	[60,]	NA	1.873384172857	-0.56061186481640	0.635334993792
##	[61,]	0.384667280811	0.424179227740	-0.81651710380908	-0.086720476235
##	[62,]	-0.355321318329	NA	-0.08854380049581	0.647724588959
##	[63,]	-0.194911057165	NA	1.60347778217781	-1.386554859418
##	[64,]	-0.597430066880	1.864804646806	-0.78183516959162	NA
##	[65,]	-0.292615105928	NA	1.70329661594809	-0.375510243392
##	[66,]	NA	-0.200319357719	0.03473971309523	-0.401417761604
##	[67,]	NA	0.623089000743	NA	0.880752571759
##	[68,]	0.277625292953	0.732503567066	NA	NA
##	[69,]	1.319101205734	0.684921676334	-0.19247979246631	0.313773661008

##	[70,]	NA	-0.484924379630	1.06631618354725	0.926603965272
##	[71,]	NA	-1.043962255409	-0.04818013385476	1.109120286723
##	[72,]	1.741707286274	1.319162970672	0.72451061808706	NA
##	[73,]	-0.632844560412	-1.409818296027	0.93102346118038	NA
##	[74,]	-1.426561377216	0.160552412421	NA	-0.323859352124
##	[75,]	-0.829560610587	-0.845448081673	1.16621704070321	-1.105834388202
##	[76,]	-0.133465716573	-1.900202742073	NA	0.355226230992
##	[77,]	-0.238590677799	NA	0.27296928830994	0.176788407385
##	[78,]	-0.666771547401	NA	-1.57545948242278	NA
##	[79,]	NA	-0.928885448689	0.57995106116842	-0.951962375870
##	[80,]	-0.343632817007	NA	2.07039803125899	-0.696720332253
##	[81,]	NA	NA	1.86538860974952	-1.460343732958
##	[82,]	-0.056925658407	NA	0.62223953649912	0.921664954919
##	[83,]	-0.390410818527	0.614771080326	0.13373807799326	-0.558292066518
##	[84,]	1.680636962045	-0.819726378952	NA	-0.572937144193
##	[85,]	0.096051794727	-1.055981951422	-2.33223579161559	-0.765209717856
##	[86,]	0.025609966854	-1.388999651649	-1.07197952890749	NA
##	[87,]	0.942021435420	-0.762541763305	0.68788550485996	-0.308277710456
##	[88,]	0.787111683320	NA	-0.13017890167712	-0.347335254236
##	[89,]	-0.219575953481	NA	-1.92050440342056	-2.824754566067
##	[90,]	-0.860972966182	-1.633205765606	NA	0.902732020011
##	[91,]	-0.718245792836	-1.799672497260	0.61633720894083	-1.219556750197
##	[92,]	0.342725099733	-0.343751119471	1.14282229655100	-1.408493363148
##	[93,]	0.405766563023	NA	NA	0.782312993723
##	[94,]	0.969510149887	0.698794906824	NA	-1.185622137521
##	[95,]	-1.015843260941	0.674120647367	NA	0.151756163892
##	[96,]	0.193550981121	0.097220859761	0.14436109259771	-2.633583218357
##	[97,]	0.661095943295	-0.498198885554	NA	2.429598789197
##	[98,]	-1.040200874438	NA	-0.21665851054473	NA
##	[99,]	0.080136540776	0.563424852286	-0.58013075443778	NA
##	[100,]	NA	-0.040436172341	NA	0.309352009456
##		[, 61]	[, 62]	[, 63]	[, 64]
##	[1,]	NA	0.711778792183	0.132579564256	0.887742378065
##	[2,]	NA	0.850402550094	-0.271358732038	-1.694632669011
##	[3,]	0.1534837971106	-1.410028991761	0.241724250661	0.320225378616
##	[4,]	-1.2949323701411	0.463004725087	-0.501811632245	-0.836390533570
##	[5,]	0.6016237165253	0.333864237128	1.360932078485	-0.397812544368
##	[6,]	-2.2374232193558	NA	NA	0.469980672901
##	[7,]	1.7906518181795	-2.357995801954	0.943557964964	NA
##	[8,]	NA	-0.825019109338	0.814066736458	0.221988560294
##	[9,]	-1.1119079415889	-0.517178334171	0.439171422965	1.043789842906
##	[10,]	-0.5936227409548	NA	1.219118757020	-0.481201738534
##	[11,]	-0.9295175814409	0.955720973496	-1.968091741841	0.604184412182
##	[12,]	NA	-0.175016296687	NA	NA
##	[13,]	-1.2803153346273	1.774592820928	0.130617269935	NA
##	[14,]	NA	0.179212740117	0.593677766055	NA
##	[15,]	-0.1502605898384	NA	1.217639530353	-0.225979509306
##	[16,]	-0.0113609867264	-1.272179746956	NA	NA
##	[17,]	NA	NA	1.432836791295	0.809987084804
##	[18,]	-1.7010993350441	0.240856900017	-1.504387225914	0.029699891828

##	[19,]	0.4603724886802	-0.315608911656	NA	0.313334443060
##	[20,]	0.3882128196656	NA	1.619214863872	-1.936449765207
##	[21,]	0.2113593402023	-0.914817591133	NA	NA
##	[22,]	NA	-0.822532625027	-1.813314111581	-0.279469537069
##	[23,]	NA	NA	-1.329731183715	0.594219829348
##	[24,]	NA	-0.257257093129	NA	-0.514874799083
##	[25,]	-1.9449784023221	NA	0.418656027532	NA
##	[26,]	-0.5999507753560	NA	NA	-0.303621597871
##	[27,]	NA	0.128848971215	-0.417668209953	-0.342163027093
##	[28,]	NA	0.482707531895	-0.539291827386	0.250881021512
##	[29,]	NA	1.254770856769	NA	0.519666072929
##	[30,]	0.7597384648099	-2.029431748554	NA	-1.792867631789
##	[31,]	-0.1099012491618	-0.091572689450	-0.761793290280	-0.431781782616
##	[32,]	NA	NA	0.565233136415	NA
##	[33,]	-0.2927263224202	-0.441660847615	NA	1.683894625783
##	[34,]	-0.2627133998610	NA	0.713111670060	0.140091684124
##	[35,]	NA	0.451976710866	-0.767258055561	0.719519428378
##	[36,]	NA	NA	1.927525836013	NA
##	[37,]	-0.6421824533286	1.085709999590	1.421738832138	NA
##	[38,]	0.4477497140792	-1.121438335339	0.352785374229	1.840662888993
##	[39,]	0.4111664048128	NA	0.088411571658	0.920978422650
##	[40,]	0.4016166863371	NA	0.638065386114	0.786247419116
##	[41,]	0.3864651017152	2.094381562217	1.016985518622	NA
##	[42,]	0.0583318294755	NA	NA	0.734577594167
##	[43,]	NA	0.587247808610	-0.156480521063	NA
##	[44,]	-0.7528712935040	NA	1.735963916518	NA
##	[45,]	-1.6047992721488	NA	NA	0.343120050811
##	[46,]	-0.6948552934979	-0.939902046268	-1.178429122037	0.908010672726
##	[47,]	-0.5019308732896	-1.305031923798	-0.192180921666	NA
##	[48,]	NA	-0.088537879921	0.119903830262	NA
##	[49,]	-0.6315627319020	-0.409527595850	1.094046400111	NA
##	[50,]	-0.8030435473862	1.203026037996	-0.839697856899	NA
##	[51,]	NA	-0.866688757595	2.332287291252	0.495358084737
##	[52,]	-0.1653764011707	1.821765438232	0.329415715229	-0.168314097857
##	[53,]	NA	0.529957713007	NA	-1.892855819880
##	[54,]	-0.6872167702219	-1.245630877565	0.606196441893	0.436512918425
##	[55,]	NA	0.830555752074	0.684625241637	NA
##	[56,]	NA	0.804129553711	0.762918759204	NA
##	[57,]	1.7607492948953	NA	1.211782557743	-1.004051788514
##	[58,]	NA	0.989811130192	0.236562268746	0.647282066927
##	[59,]	NA	0.074913141113	1.703983551883	-0.240831652427
##	[60,]	-0.5688150967900	NA	NA	0.407797764971
##	[61,]	0.4329866963205	-0.734435103328	1.217765001392	-0.120792586287
##	[62,]	NA	NA	NA	0.083336493449
##	[63,]	0.0829304798951	-0.511258120482	-0.298011609665	-0.414652048498
##	[64,]	-1.2394432270120	-1.237253075841	NA	2.418158217022
##	[65,]	NA	-1.482893460346	-2.048534349300	-0.308454302448
##	[66,]	NA	0.349965311192	NA	1.762429060849
##	[67,]	1.5958901801674	NA	0.999829829765	NA
##	[68,]	-0.3822119587860	-0.127002412076	-0.158561623721	-1.220512310899

##	[69,]	0.4513238425996	0.237570408537	NA	-1.449350764505
##	[70,]	0.9092951625511	-0.390318429374	-1.685338815551	NA
##	[71,]	0.7096387970841	NA	-2.523579723063	0.991669634553
##	[72,]	NA	NA	-1.144762802566	-0.097521655658
##	[73,]	0.7192904557614	-0.862994010268	-0.890837408607	-1.070249629386
##	[74,]	0.6004547270569	NA	NA	-0.479675004370
##	[75,]	NA	-0.625505231180	-1.237804722276	NA
##	[76,]	NA	0.100922683672	NA	1.819550506449
##	[77,]	NA	-0.583872303386	1.310725628888	0.684014024447
##	[78,]	NA	0.072150594727	0.854027838624	NA
##	[79,]	NA	-0.683411375206	NA	-0.288073468865
##	[80,]	-1.0863981766485	-1.872574283340	0.402668722496	2.042239227872
##	[81,]	-1.0866042265304	0.228851777544	0.272935378898	0.834676966301
##	[82,]	-0.4459877268773	-0.238246929332	0.582609499249	-0.511526892194
##	[83,]	-0.4520315295230	NA	-0.602335326769	0.934492577372
##	[84,]	-1.9170236685201	NA	-1.703592401675	0.765129422256
##	[85,]	-0.0013495649656	-0.598806375206	-0.472611938109	NA
##	[86,]	1.0460782101116	NA	NA	NA
##	[87,]	NA	NA	-0.164800343968	NA
##	[88,]	0.8721030188673	NA	NA	0.129445162364
##	[89,]	NA	NA	-0.500495847095	NA
##	[90,]	NA	NA	-0.543892939967	0.329340623046
##	[91,]	0.2146672229807	NA	-1.203849139353	-1.460657575128
##	[92,]	0.1404314945136	-1.318041565139	0.218527170948	1.665990437452
##	[93,]	NA	-1.667904429690	NA	-1.842494993384
##	[94,]	-0.8437462849403	-0.618504442597	0.354125598868	-1.121962107664
##	[95,]	NA	NA	0.644673978608	0.091411062225
##	[96,]	-1.6844651380007	-1.017089108845	-0.017447435232	-0.507293003972
##	[97,]	NA	NA	NA	-0.184523219722
##	[98,]	0.7879675101571	NA	-0.684295721931	-0.577656052594
##	[99,]	0.1897187192544	NA	-0.996172012004	-0.354357288689
##	[100,]	NA	-0.017474678897	-0.081020330713	-0.105593984648
##		[,65]	[,66]	[,67]	[,68]
##	[1,]	NA	NA	NA	1.238460898800
##	[2,]	NA	0.9573451046096	0.2459165650185	1.294017887092
##	[3,]	NA	-0.0261475515835	-1.5826898600019	2.739364383157
##	[4,]	NA	-0.8053000874209	NA	NA
##	[5,]	1.086963137620	NA	1.8704372520131	2.023439367530
##	[6,]	0.938927568799	2.1597091071310	0.6738038999117	NA
##	[7,]	1.378185460555	-0.1505323260513	NA	NA
##	[8,]	-0.547649367107	0.5891034872703	-0.5075757543319	NA
##	[9,]	0.820592655163	-0.5695588028858	0.9740926850809	-1.155325344948
##	[10,]	NA	-0.0210637955737	-1.9620565252098	1.282607116157
##	[11,]	0.418546074828	1.7102544467100	0.4966624396448	NA
##	[12,]	-1.437807149011	-0.4061299601488	2.0147518261535	-0.537946051676
##	[13,]	-0.509796102481	-0.4526671267809	NA	2.333380953354
##	[14,]	0.252391190864	NA	-0.3471717423596	-0.136832890956
##	[15,]	-0.794169326623	NA	NA	-0.893126571936
##	[16,]	1.160294599948	1.2906988510701	NA	-0.441692342668
##	[17,]	0.841736944899	NA	0.0854080595332	0.164105031761

##	[18,]	NA	1.7599213900352	2.3556964656861	0.748577235572
##	[19,]	NA	0.2033231037169	-1.2344315707666	1.321240729146
##	[20,]	-1.235527805079	0.4308711160253	-0.1283191506813	1.031248792344
##	[21,]	2.206892046633	-1.4636514816171	-0.4075352235446	-0.582852485374
##	[22,]	1.121907623537	0.0983792667477	1.3215717363471	NA
##	[23,]	1.015162273015	NA	NA	-0.928528945691
##	[24,]	NA	0.8941723652562	-1.0842889153019	NA
##	[25,]	0.320209350554	-0.2095739150598	-0.6408832125650	1.167574023043
##	[26,]	NA	0.7126064394366	-0.6417069600958	NA
##	[27,]	-0.832167981224	NA	NA	0.518001567123
##	[28,]	-1.532867189304	0.1266585766059	0.2423513227885	NA
##	[29,]	-1.878399096259	1.8406628648167	0.8511064888856	NA
##	[30,]	0.916898059300	-1.2238085456724	1.4745630202293	-0.787940186658
##	[31,]	0.853374131227	-1.5854786286524	0.5132718393024	0.972929508519
##	[32,]	1.356228924689	NA	-0.4266507971630	1.046751088526
##	[33,]	NA	0.0022484971119	NA	1.136713923861
##	[34,]	NA	0.0252968232028	-0.4961014211888	-0.873715532071
##	[35,]	-0.722131200996	NA	-1.1752500775160	0.686678608210
##	[36,]	0.731401321437	0.4632762420609	-1.4444640357691	0.303405826069
##	[37,]	0.261552485644	0.8102292478852	NA	1.069957386456
##	[38,]	0.526575777137	1.8878352472336	NA	NA
##	[39,]	-1.864049510698	0.1235845181181	-1.2159920116802	-0.192981426177
##	[40,]	0.275787801869	-0.1753874983361	-0.5596529497353	-0.539804504911
##	[41,]	1.151588347450	-1.2842869594874	-0.9658638495146	-1.682452218545
##	[42,]	1.834943356090	-0.3327186579381	NA	-0.330252472123
##	[43,]	1.464838914208	NA	NA	-0.150336532214
##	[44,]	0.554233170068	0.3621479453311	1.8244128690277	NA
##	[45,]	-0.530557531624	NA	-0.0013780863408	0.022942254578
##	[46,]	NA	-0.4056044595059	1.7512409123225	NA
##	[47,]	-0.973025468100	-0.7332457088206	NA	-1.862753961348
##	[48,]	-0.018297833952	0.7434991041731	3.0727219716732	-0.013828812635
##	[49,]	-0.506715375606	0.7548787341087	0.1542354472338	0.419906859408
##	[50,]	NA	NA	NA	0.144235285704
##	[51,]	NA	-0.8675311090377	0.2044072744867	-0.337700897501
##	[52,]	NA	-2.4258359851032	-0.6120610151847	NA
##	[53,]	0.361294591709	1.1208651142760	NA	NA
##	[54,]	0.346688188137	NA	-0.2862441279841	NA
##	[55,]	1.462064690967	1.4311625304224	0.9253073067811	NA
##	[56,]	0.600619863343	-0.2480005049504	-0.8284479134037	NA
##	[57,]	0.505100462358	0.5509753968866	-2.0572434272461	0.058052219147
##	[58,]	-0.334994037270	NA	1.0292052013093	1.295014711986
##	[59,]	0.062763042782	NA	-0.9431990659769	2.286345257613
##	[60,]	1.138144564070	0.8576596603715	NA	-1.499488198748
##	[61,]	-0.570707210279	0.2448047504581	0.4698620394790	2.096264446945
##	[62,]	NA	-0.2549883145802	0.0812570789549	-0.735621600085
##	[63,]	1.089245210696	0.6096743965200	-0.4557288658185	NA
##	[64,]	NA	NA	1.7875023043771	0.151031990229
##	[65,]	NA	-1.5027667047908	-0.4791505541243	1.932650248711
##	[66,]	NA	-1.1453903383433	-1.0907398976376	-0.867423860698
##	[67,]	0.417598406470	NA	2.0679249576085	NA

##	[68,]	0.065116215435	0.0536505369443	-0.6260339016938	1.244803483378
##	[69,]	-0.789838463262	-0.6582049224634	NA	-1.570190085298
##	[70,]	-1.176463649642	0.2262386157358	-1.6362729111589	0.376520054711
##	[71,]	0.579802232725	NA	0.7817835181902	-0.649991423218
##	[72,]	-1.084083526047	1.2997141955411	NA	NA
##	[73,]	NA	NA	-0.3632553789951	-1.044586022535
##	[74,]	-0.936876166013	NA	-0.6400153897759	-1.559379976329
##	[75,]	0.585442631237	0.3954410110414	-0.2573206745708	-0.969799483595
##	[76,]	-0.661337662113	0.3358251687720	-1.3346283986722	NA
##	[77,]	-0.413422157572	0.8514184252283	NA	NA
##	[78,]	0.506134894774	0.8140133815382	-1.1602068405821	0.495044780030
##	[79,]	0.557694322197	0.5543150736186	NA	0.100871058305
##	[80,]	NA	-0.7980953398632	NA	NA
##	[81,]	NA	2.1501363325039	NA	-0.040287774550
##	[82,]	-0.036832059327	-1.1668578734740	0.0975567157297	0.130877029058
##	[83,]	NA	NA	-1.1175117900739	-0.797075090119
##	[84,]	-0.126272907166	0.4647036419713	NA	-2.078971396762
##	[85,]	-0.537037739013	-0.6174005259411	-1.0359381557846	1.219101705560
##	[86,]	-0.091743015855	-0.7062266854411	1.8464342671891	0.329536161615
##	[87,]	0.507991436090	-0.5676596727434	-1.1268563965737	NA
##	[88,]	-0.629067214326	NA	NA	-1.610099264272
##	[89,]	NA	NA	-1.1973403089283	NA
##	[90,]	-0.336831662026	0.7231648242261	0.4096837595561	1.781408719564
##	[91,]	1.982677439735	NA	0.0470827380891	-2.561364603890
##	[92,]	-0.736733114964	-0.9198385538329	-0.9759327906229	NA
##	[93,]	-0.868149918367	NA	-1.6304525135691	-0.146569626303
##	[94,]	1.160249919429	1.1165994334942	-0.8291854678521	-0.554964533961
##	[95,]	NA	NA	-0.8395646986602	-1.557106381420
##	[96,]	-1.046860842591	-1.6309258391038	NA	NA
##	[97,]	NA	-0.8593968997552	NA	-1.448123925054
##	[98,]	-1.589549240745	NA	1.0714307247448	-0.227908614814
##	[99,]	-1.076455566245	-1.3005305276916	-0.0206864766910	-0.018703409060
##	[100,]	-1.018739077121	-0.3981250943991	0.2535797995188	-0.312514030965
##		[,69]	[,70]	[,71]	[,72]
##	[1,]	NA	0.758585030679	-0.0637197033606	0.405221940921
##	[2,]	0.55519215967650	NA	-0.6534043450544	-0.584109031690
##	[3,]	0.00093263566913	NA	NA	-1.815203867308
##	[4,]	NA	NA	NA	1.540891257346
##	[5,]	NA	NA	-0.8908426873466	0.420695215495
##	[6,]	1.17236007781730	1.620685247849	1.3246352375774	0.366383571224
##	[7,]	NA	-0.205665885915	NA	-0.349282377040
##	[8,]	NA	0.682994919092	0.5056917683854	NA
##	[9,]	0.05292762552548	0.257237738214	0.4324568741550	0.941273363822
##	[10,]	-0.30002347241606	-0.197437311719	0.2088499536219	-1.165025036533
##	[11,]	NA	2.427425451295	NA	-0.353895501356
##	[12,]	NA	NA	NA	NA
##	[13,]	-0.69562436312186	NA	NA	-0.588450206244
##	[14,]	-2.31297656535108	NA	0.3836855821278	-0.134268766604
##	[15,]	NA	NA	0.4820625482532	NA
##	[16,]	NA	1.792062306333	0.7815233580829	-0.688818610870

##	[17,]	0.06885510254368	-1.814819885901	NA	NA
##	[18,]	0.71412935708007	NA	-0.2043753305241	-0.708447406462
##	[19,]	0.08093222667750	0.771233918360	1.9651652540416	0.833419033891
##	[20,]	0.71058836365272	-1.123196195528	1.1349161784467	-1.020234549060
##	[21,]	0.97035925509598	0.226220042557	0.3284191807184	-1.238094499055
##	[22,]	1.27831084173183	-0.435893683276	-1.1687703994065	NA
##	[23,]	-0.85746662101886	-0.227909793196	-1.0062167698069	-0.624712371607
##	[24,]	-2.01100156454933	0.187717209782	-0.0134319442813	0.278049006697
##	[25,]	0.16597502985470	0.688002157987	1.7016787831897	0.335820601670
##	[26,]	NA	NA	-1.4701767059560	-0.303971806798
##	[27,]	-0.37240580131744	-0.533883293867	1.9676287308134	-0.325259495885
##	[28,]	-0.16741671982072	-0.049638830477	1.3279915507173	NA
##	[29,]	-0.46718321190251	NA	-0.0021415069309	0.309537886435
##	[30,]	NA	0.720174514964	NA	NA
##	[31,]	1.05639168647918	0.811579292355	0.3664687435195	1.670615755301
##	[32,]	1.37222801441214	-0.525430299708	2.2113398459350	0.234990635327
##	[33,]	0.84768044154318	-0.200938549906	-1.1866650805929	0.040171799664
##	[34,]	NA	NA	NA	-0.854132510948
##	[35,]	-0.55536132450451	1.880747010268	1.3818606475605	NA
##	[36,]	-0.62915172373840	0.519757599861	1.3314186146808	NA
##	[37,]	-0.82886412323359	-0.129628819440	0.0233986965263	-1.274299478971
##	[38,]	NA	NA	-0.4353305993786	NA
##	[39,]	-0.76983530682755	-0.035479651790	0.1569436303383	-0.057791904280
##	[40,]	-0.74174340881771	NA	-0.7277016280338	-0.069039177476
##	[41,]	-1.77544960440394	2.436488412756	-0.2439216828565	0.912404588125
##	[42,]	1.37259165534896	-1.115565035787	1.5593449410526	-2.123699807748
##	[43,]	0.73831782500400	-0.350142348253	0.1321960012553	0.527458815339
##	[44,]	0.07509197575687	NA	0.0333905673029	-0.094324448089
##	[45,]	0.35521051661908	NA	NA	0.293306910196
##	[46,]	0.70342109229845	-0.711420685486	NA	0.098183252424
##	[47,]	0.49307619307555	0.876036595260	0.1907594373360	-1.485840554560
##	[48,]	NA	0.396139002605	-1.5031519741871	-1.140247734405
##	[49,]	-0.41656822344662	0.052739414983	-1.8407260437875	NA
##	[50,]	-0.00975719661685	NA	NA	-1.007601693273
##	[51,]	-0.14322750830731	NA	-0.6891774270220	NA
##	[52,]	NA	0.700360537493	NA	0.859877105697
##	[53,]	-0.28663605598075	0.250010148837	0.1460916306458	0.641228736075
##	[54,]	NA	0.047788148023	-0.6807287690599	NA
##	[55,]	-0.86610172215481	-0.509299617190	-0.4859003110191	-0.653906015193
##	[56,]	-0.13642140395704	NA	-1.0711173620722	-0.334410352492
##	[57,]	1.22929659581935	NA	NA	NA
##	[58,]	0.36025576420996	-0.208760633674	0.9233471073517	NA
##	[59,]	0.13138503789306	NA	0.2902381202838	NA
##	[60,]	NA	-2.365737255337	-0.0902449121165	-0.381612275006
##	[61,]	-0.39574564728991	0.884521555925	0.2119308385665	-1.119806322317
##	[62,]	NA	-0.222412836037	NA	0.496016147948
##	[63,]	-0.68345409226847	NA	NA	-0.413560502587
##	[64,]	NA	0.549632108763	NA	0.629326809349
##	[65,]	NA	1.047866584261	-0.4219608067105	0.583200671181
##	[66,]	0.65976569850163	0.175438176553	-0.3683471530171	-2.160718948460

##	[67,]	-0.56715959791039	-1.141691060572	-1.9080078743945	-1.189019797742
##	[68,]	0.18290951589880	0.489465505603	0.2814025904601	1.545445123917
##	[69,]	NA	-0.156835990015	-0.5318871475297	0.375258615769
##	[70,]	-0.10011316870175	-0.745297986458	-0.4242872479413	NA
##	[71,]	1.10941858775985	-0.804615226221	-1.3541077311784	NA
##	[72,]	NA	0.397720335553	-1.1125013080649	0.381387196125
##	[73,]	NA	-0.146967464391	NA	NA
##	[74,]	0.34664923492064	0.890914233433	NA	-1.091090257527
##	[75,]	-1.04719848631911	-0.645138230219	0.0029371007929	-2.275308168440
##	[76,]	-0.25832407564349	-0.351041203260	0.4089894387581	NA
##	[77,]	0.95771489524570	-0.224162858240	NA	-0.441613952225
##	[78,]	NA	NA	-1.1552430842661	-0.356752337020
##	[79,]	NA	0.522543312097	NA	NA
##	[80,]	NA	NA	NA	1.032981612241
##	[81,]	-0.69007933696141	-1.219313195239	0.0785240018317	NA
##	[82,]	-0.64987004444907	-0.513956753126	-1.6237685100461	NA
##	[83,]	NA	NA	-0.6026528793126	NA
##	[84,]	-1.52235223624282	-0.097247998587	NA	NA
##	[85,]	NA	-0.073174092818	NA	0.226437176608
##	[86,]	1.47003653404127	-0.376381017059	NA	NA
##	[87,]	-0.53406148732606	-1.981264706927	NA	-0.819567945447
##	[88,]	-0.15476662486187	NA	0.9461514963275	NA
##	[89,]	NA	NA	-1.3541440894180	0.276841854994
##	[90,]	-0.97408805513344	-0.512927834028	0.9880790612212	NA
##	[91,]	-1.28403425196884	-1.766941628941	2.0475691882180	NA
##	[92,]	-1.93996525504490	NA	NA	0.339659889304
##	[93,]	1.10806329205411	0.596613607199	NA	-0.434971459497
##	[94,]	0.45294650326229	-0.675988945781	0.3704885269936	NA
##	[95,]	2.45145506818266	-3.218929038790	0.2195545113681	-1.939309492407
##	[96,]	-0.54579301450033	-0.447712443862	-1.7713043019000	-0.090602980914
##	[97,]	0.34303210697621	-1.793635840015	-0.0699807030502	-0.769541793322
##	[98,]	NA	-1.574289358466	-0.7679947160245	-0.245635193803
##	[99,]	-0.00488222091234	0.180274993771	0.1363151048417	-0.932115247528
##	[100,]	NA	-0.423339333065	1.1944788374688	-0.945900735042
##		[,73]	[,74]	[,75]	[,76]
##	[1,]	0.159565230902	-0.2674390538780	2.063322077312	0.57770466399471
##	[2,]	0.262162542599	0.5646338845678	-0.465628472861	-0.24240002712535
##	[3,]	NA	-1.9265120062079	NA	1.66967905946674
##	[4,]	1.134925810634	0.2318830491753	NA	0.28364243121750
##	[5,]	-0.557581850343	NA	0.080051084551	NA
##	[6,]	-0.537291286341	1.4221437680829	-0.909227669357	0.05654552039883
##	[7,]	NA	0.3643793315635	1.184929713038	-0.32291675033563
##	[8,]	1.259697213029	NA	0.022555095790	-0.35414270185959
##	[9,]	1.717586137938	1.0848897109451	0.824904739625	-1.13619422769030
##	[10,]	0.232438168642	NA	-1.242650376031	NA
##	[11,]	0.573728046942	NA	NA	-1.79758188554293
##	[12,]	0.272233566091	NA	NA	0.95147386616385
##	[13,]	NA	0.9410012561740	NA	-0.03866875301835
##	[14,]	0.020370439105	0.1889841005436	-0.577242240479	NA
##	[15,]	1.179329804146	1.2392072065033	0.024355538441	0.51577124524049

##	[16,]	NA	NA	NA	NA
##	[17,]	NA	NA	2.252407169195	-0.56934994079766
##	[18,]	0.736003157251	-0.0808008901863	NA	NA
##	[19,]	-0.632815291357	0.0649701807672	NA	-0.90013326101747
##	[20,]	0.109676075125	NA	0.009213268654	-1.18747771909367
##	[21,]	NA	NA	-1.338413984152	0.60316410714828
##	[22,]	-0.421164026301	0.8547247098576	0.772083068576	0.79571413875840
##	[23,]	2.063209206598	-0.3068726536313	0.489801320251	-0.33908844512130
##	[24,]	-1.661313855289	0.0019508506291	NA	NA
##	[25,]	NA	0.6829802591109	NA	-0.07296426259816
##	[26,]	0.627558073817	2.0677709931222	-0.014284809352	NA
##	[27,]	-0.159479523507	-0.5055161082124	NA	0.58556777480209
##	[28,]	1.010073608164	0.0556755277085	NA	-0.34366047930003
##	[29,]	NA	-1.3404733800201	-0.627185633108	NA
##	[30,]	-0.148439423575	NA	0.293764220831	NA
##	[31,]	-0.839320601899	0.1614943478572	0.359662934030	-0.69128664607110
##	[32,]	NA	-0.4225319030807	NA	1.04783655839124
##	[33,]	-0.961290459707	0.0411088542588	NA	-1.11895217429727
##	[34,]	-1.321106371792	NA	NA	0.52127423011341
##	[35,]	0.300059195195	-0.7764532843865	NA	0.87868882130976
##	[36,]	-0.151599377967	0.5979827209157	1.275641524314	NA
##	[37,]	NA	NA	NA	NA
##	[38,]	-1.011548766036	0.9992394798402	NA	NA
##	[39,]	NA	-0.5186759805824	0.086652810647	1.80174131997075
##	[40,]	0.216626051780	NA	NA	NA
##	[41,]	-0.965770707960	0.2549538949719	0.210536630881	-0.34270771050544
##	[42,]	1.194783314624	-0.8698571129122	NA	0.75812075787714
##	[43,]	-1.092130771657	NA	NA	NA
##	[44,]	0.847719179626	2.1533985968404	-1.413550335709	0.21687248503406
##	[45,]	1.811326132408	0.4263870076347	0.437253140833	NA
##	[46,]	NA	NA	-0.096220955046	0.58309977359601
##	[47,]	-2.577513306161	NA	NA	0.30536660591696
##	[48,]	0.303446705873	1.4192037763029	NA	-0.42757209774174
##	[49,]	NA	-1.4238498477223	1.030592835332	NA
##	[50,]	NA	0.8692525511418	0.479545717234	0.97249726278521
##	[51,]	-0.167689137059	-0.4792079209994	-0.512807976237	-0.46721819946007
##	[52,]	-1.415236145781	NA	-0.977015845600	NA
##	[53,]	NA	-3.1654404560193	NA	0.36304023422083
##	[54,]	0.081204263180	1.5721711895089	1.043437168682	0.18991082808797
##	[55,]	-0.193250733537	-0.3740678451962	-0.022630619506	-2.05120793233026
##	[56,]	0.809779020406	NA	-0.939113396404	NA
##	[57,]	0.878711894339	0.1903721990687	0.788338299262	0.42586107127932
##	[58,]	0.068451449077	1.2358152905566	2.284504007172	1.14350567831792
##	[59,]	-1.297763242997	0.7569300402533	0.431720818569	0.12507893313826
##	[60,]	-0.086906951408	NA	-0.808137622284	0.49128619431038
##	[61,]	0.310284411706	0.1255523011601	0.465520801443	NA
##	[62,]	NA	-0.7451429879585	NA	NA
##	[63,]	0.068599419713	0.3327207973282	0.290310211497	-1.13258970124950
##	[64,]	1.114715754452	-0.6315019067205	0.031831762786	-0.31725870812223
##	[65,]	-1.588384217350	NA	1.320391865311	NA

##	[66,]	-0.734286201943	0.3548792041627	0.045820670323	0.54810671560294
##	[67,]	1.250858208081	NA	-1.458019216810	0.37324937491543
##	[68,]	-2.167390282425	NA	NA	-0.43339161175266
##	[69,]	NA	NA	-0.432309173702	0.00014061050114
##	[70,]	-0.208482134351	NA	-0.487156877582	NA
##	[71,]	-2.493327509193	-1.0685695022479	NA	0.33043779974244
##	[72,]	0.388877264633	NA	NA	NA
##	[73,]	-0.890065790053	NA	NA	NA
##	[74,]	NA	NA	-1.197333852809	0.23941751040541
##	[75,]	-0.122360948565	2.2350023078571	-0.739874989120	NA
##	[76,]	1.127944117595	-1.5328705693443	0.442326471259	NA
##	[77,]	0.624479095023	NA	-0.795158984391	NA
##	[78,]	NA	NA	0.577222700897	NA
##	[79,]	-2.562318466439	-0.8024802883104	-1.387990294101	NA
##	[80,]	NA	-2.4985597521028	0.998907134564	0.71534963342157
##	[81,]	-1.362757906858	-0.4956855788272	0.645423530857	-0.29926775159640
##	[82,]	NA	-1.0024632185983	NA	NA
##	[83,]	-0.098822700980	0.0227779410350	-1.517652809879	1.57900806830808
##	[84,]	-0.961122712369	1.0425929419792	0.303772711393	NA
##	[85,]	NA	-0.8135695227581	0.273941983212	NA
##	[86,]	-0.729018685704	NA	NA	0.73372028740632
##	[87,]	NA	0.0212659552748	NA	NA
##	[88,]	-0.523956072783	-1.8630154324855	NA	NA
##	[89,]	0.054645342903	-1.2376111951413	1.536848254105	-0.38988912356276
##	[90,]	-1.186657125685	0.2411805626590	-1.082181672481	-1.04977915238217
##	[91,]	-0.420199417064	0.0640605586076	-1.752846673738	NA
##	[92,]	NA	-0.4992222042165	NA	NA
##	[93,]	0.162028257462	NA	NA	-1.45007881771608
##	[94,]	0.950951679806	0.7370023741053	-0.913153601743	NA
##	[95,]	NA	NA	0.724029204318	NA
##	[96,]	1.618413358844	-0.8232179750212	-0.248150092014	-0.02985541286470
##	[97,]	NA	0.1181213897341	0.097591968567	0.92640914194898
##	[98,]	0.191698660446	0.5732560046308	-0.705079327823	NA
##	[99,]	-0.798202573540	0.8862302541190	-3.120602347273	1.42795003336038
##	[100,]	-0.174238720330	0.3084025546281	NA	0.73445319692442
##		[,77]	[,78]	[,79]	[,80]
##	[1,]	NA	1.7103550988016	-0.936657945077	NA
##	[2,]	-0.099812103486	1.0335685692086	0.030604700958	-0.255798563933
##	[3,]	NA	NA	-0.267383493265	0.244648858700
##	[4,]	NA	1.8086147275108	0.274609364037	0.631856878444
##	[5,]	NA	-0.4714809903221	0.717000165504	-0.197170180744
##	[6,]	0.613187581066	-0.3305085976961	0.054065863720	0.309150034800
##	[7,]	1.924149820903	0.3244779524468	0.578810064636	0.168000865181
##	[8,]	-0.944492522174	2.3949961567228	-0.803507898232	0.404299963197
##	[9,]	NA	0.6696388340538	-0.224878811727	-0.652539719088
##	[10,]	-0.140563939450	NA	NA	NA
##	[11,]	NA	-0.4443019808198	-2.426207042670	NA
##	[12,]	NA	-0.1440502844805	-0.831571099313	-0.930775578622
##	[13,]	0.319368308322	0.1096864311988	-1.713839217369	1.180932987882
##	[14,]	0.765489747971	-0.6736660668234	NA	NA

##	[15,]	NA	0.4867148655277	-1.156075752843	-1.078392353575
##	[16,]	1.110272220837	1.3265921465178	-1.423308591898	-2.174537256837
##	[17,]	NA	-0.4563689529412	-0.084749655376	NA
##	[18,]	0.350262900982	NA	-1.873034326025	0.035348060203
##	[19,]	0.035433360409	-0.4186380471660	-1.298528071633	-1.085905933533
##	[20,]	NA	-0.0895511031524	2.441803903110	-0.838751349307
##	[21,]	-0.564130789890	1.1087065321804	-1.932884750304	NA
##	[22,]	1.273687055618	NA	NA	NA
##	[23,]	0.563388612824	1.2070638405018	NA	1.069710228841
##	[24,]	NA	0.1235302667266	NA	-1.789625810024
##	[25,]	0.619050203946	0.1847961280102	NA	NA
##	[26,]	1.853101930935	-2.6118400385661	-0.592970180406	0.356686139520
##	[27,]	-0.939232365256	-0.8885827986027	0.242916382231	0.770224333944
##	[28,]	1.082648836079	0.0085827144662	-0.372202333891	NA
##	[29,]	-1.325575998988	-0.3969660023709	0.191975419558	-0.598103642215
##	[30,]	0.315254228425	-1.6371310322595	-1.134589860789	0.149453207581
##	[31,]	-1.611368365558	0.1087005995801	0.828783371784	0.461492609028
##	[32,]	1.750856449301	0.0053588853583	-1.101030240812	0.626882949712
##	[33,]	-0.786314202181	NA	0.887272388363	0.246477450866
##	[34,]	NA	NA	-0.154380304176	0.861489722279
##	[35,]	-0.141166400409	-0.1362736742001	-0.916763794272	1.356176471293
##	[36,]	NA	-0.3233343818032	0.358589215175	NA
##	[37,]	1.178594919530	NA	1.497491449603	NA
##	[38,]	NA	NA	0.701901589290	NA
##	[39,]	NA	NA	NA	NA
##	[40,]	-0.813537863730	-1.6241766825303	0.976491760059	0.194299909672
##	[41,]	NA	-1.1412815878458	NA	-0.733225939356
##	[42,]	1.607005175595	0.7967880631762	-1.449610713141	-0.388421232339
##	[43,]	-0.752576566885	-0.8108987848521	0.751451045473	NA
##	[44,]	-0.714506855915	-1.1846908721031	NA	-0.038680728210
##	[45,]	0.757238760775	0.2428782934698	0.068171017544	NA
##	[46,]	NA	1.7843831688620	1.035070112039	NA
##	[47,]	-0.085245164862	NA	0.469032797834	NA
##	[48,]	0.101294346925	-1.3931582442145	-1.489488811889	NA
##	[49,]	NA	NA	-1.476361722666	NA
##	[50,]	NA	-0.4575628423686	0.842448001460	-0.258312582285
##	[51,]	0.696593664948	0.2382954781134	NA	0.016554227098
##	[52,]	NA	-0.8272714266821	NA	0.073808424319
##	[53,]	NA	NA	NA	0.319214576612
##	[54,]	-0.166253362852	-3.6445960629553	1.155945035970	NA
##	[55,]	NA	-0.3383111835272	-0.824407735180	0.290995638979
##	[56,]	NA	NA	-1.554069475515	-0.143484729350
##	[57,]	-1.235980981260	1.4183804610768	-1.256758761605	0.263302754051
##	[58,]	NA	0.5185442395837	1.236572811594	NA
##	[59,]	-0.417588434110	-0.3578573528149	NA	-0.940332821398
##	[60,]	-0.844941917604	1.7300795987856	NA	NA
##	[61,]	NA	NA	-0.915500098768	1.455910718677
##	[62,]	1.615102529325	0.0403072562369	NA	NA
##	[63,]	1.321936135938	-0.8296135326982	0.620476564480	NA
##	[64,]	0.567978289403	0.4881817107976	0.455045102492	-1.099116381827

##	[65,]	-0.874817565282	-1.1471740278405	NA	0.491663358074
##	[66,]	NA	-1.7635435636366	0.355485289863	NA
##	[67,]	0.488404044685	0.8645123112838	NA	-0.690079017838
##	[68,]	-0.763994302083	-0.5490419012965	0.688276892645	-1.873040368243
##	[69,]	0.659631232292	NA	2.979582851212	NA
##	[70,]	0.504049288576	0.3892823204624	1.401711397122	-0.509203083187
##	[71,]	0.494425412757	-0.6529473413281	NA	-0.795656905985
##	[72,]	0.196408914534	0.3278384076323	NA	-1.075069964565
##	[73,]	-1.258487590910	1.0986261525571	0.978904104630	-1.412914414218
##	[74,]	1.873645500811	-1.9593581279556	0.267851480261	-0.091779119595
##	[75,]	-0.859373073647	-0.5539929408170	0.120068745940	NA
##	[76,]	-0.594171137806	-1.7939113286740	1.026495451009	NA
##	[77,]	NA	NA	-0.634319980398	-0.743741400381
##	[78,]	-1.067716822325	NA	-0.372405372248	-1.018168201968
##	[79,]	0.506219243468	NA	NA	NA
##	[80,]	0.256933648808	-1.8388760978615	NA	NA
##	[81,]	0.318162740658	2.1150690851129	-0.470627148732	0.979813927560
##	[82,]	NA	-0.2026269633662	NA	1.364655098186
##	[83,]	NA	0.5427716909209	1.430735603536	0.559481164714
##	[84,]	0.286566264557	NA	-0.422874149062	-0.212373002819
##	[85,]	-0.987465964095	NA	0.233837703408	NA
##	[86,]	NA	1.5586507066349	NA	-0.737898826336
##	[87,]	0.829815678476	-0.0672665838232	-0.481099206537	NA
##	[88,]	NA	-0.9357494898087	-2.835414366650	NA
##	[89,]	-0.530884548462	-0.9447963955994	0.645509673946	-0.719043250325
##	[90,]	0.358279053708	NA	-0.063912901220	0.427246634218
##	[91,]	-0.118668843325	1.3508832908359	1.388149732544	0.400020074951
##	[92,]	0.098583024206	-0.9300861651196	-0.060744484849	0.810089465103
##	[93,]	-0.181145819682	1.9144469565399	NA	1.212611911337
##	[94,]	0.296091005134	-1.0449339998479	-1.101672874660	NA
##	[95,]	-0.843021132485	-2.0816362107983	0.504970357620	NA
##	[96,]	0.212594412653	-0.8120860509350	NA	-0.226875664937
##	[97,]	NA	1.4472700350332	NA	-0.182476922932
##	[98,]	NA	-0.6242959079886	0.564187705867	0.962822204651
##	[99,]	NA	-2.0670846037576	NA	NA
##	[100,]	0.937122993746	NA	0.770338487124	-1.210649510297
##	[,81]	[,82]	[,83]	[,84]	
##	[1,]	0.1182104315513	-0.6898315280251	-0.1106427402607	1.2379466206759
##	[2,]	NA	1.0714061343372	0.5856618001433	-0.3479937185559
##	[3,]	0.9921445037090	0.0238511534314	0.9971952786989	1.7328635634368
##	[4,]	0.0886061519371	-0.6933549941431	NA	1.1305346737391
##	[5,]	0.0433509312012	-0.0046922904872	NA	NA
##	[6,]	NA	1.0509558812658	-0.7276931235087	NA
##	[7,]	-0.2971243470348	0.1017296846810	0.0061070008377	NA
##	[8,]	NA	0.1627054000245	-0.6733106221655	NA
##	[9,]	0.2565691502097	NA	-0.0734371546616	1.9362248788732
##	[10,]	NA	1.2798259823426	-0.4213383584828	-0.3548576537327
##	[11,]	-0.3447297987052	0.2061291694030	0.5001816670907	NA
##	[12,]	0.6475920915191	NA	2.4288298684344	NA
##	[13,]	-0.2060773034206	-0.5655635556950	2.0116646213009	0.7608675822937

##	[14,]	NA	-1.8778737611259	1.0401600257594	0.4778518920687
##	[15,]	-1.0076062744092	-0.1358896856947	NA	2.1003945633831
##	[16,]	NA	NA	NA	1.3534578093657
##	[17,]	-1.3392967503152	-0.2934946524305	-1.1459922162626	-0.2349912863465
##	[18,]	-1.4914627080100	-0.0238547638559	1.0080951996886	0.9504761370506
##	[19,]	1.3579146520451	NA	NA	NA
##	[20,]	0.8141770043348	0.2312565511883	NA	NA
##	[21,]	NA	1.2228057061324	-0.8111936183859	0.1218813306319
##	[22,]	-0.0266903712202	NA	NA	0.5581734456255
##	[23,]	-1.4667155761622	0.6592731047550	0.3125884447229	NA
##	[24,]	-1.0015064558408	1.8246011361362	2.0566977466142	NA
##	[25,]	-0.3279509320872	NA	-1.0449084000274	2.4393624006622
##	[26,]	-0.2622353847156	NA	0.5606570675848	0.5922397392071
##	[27,]	0.1653474605917	0.9053234521252	-0.2785884040381	-0.3320595199755
##	[28,]	0.1472250454940	0.9799171909828	NA	NA
##	[29,]	0.7050481602523	1.0133879564105	-0.8938931542215	NA
##	[30,]	NA	0.7719758175793	NA	-0.8956703064697
##	[31,]	0.3422129272458	-1.2369385159924	0.3362509480821	-1.0519928842076
##	[32,]	0.8284971794594	NA	NA	-1.1588715837878
##	[33,]	NA	-0.4964721559741	-1.8465227314976	-0.0391574762942
##	[34,]	-0.0653082802420	0.3082726062456	-0.4392846608084	0.0066480875668
##	[35,]	-0.2550999299583	NA	-0.0500445922497	-0.7319022805929
##	[36,]	NA	NA	0.1810237237216	1.2653747991614
##	[37,]	-0.3406641262015	NA	-0.6913948309876	-0.1391145952857
##	[38,]	-1.7904996258792	2.1638874027320	NA	0.2380283661635
##	[39,]	-0.1664850041397	1.1929816003919	1.2329294063160	-0.5986302562580
##	[40,]	0.7991268475585	0.2200530437380	-1.0746652033954	-0.8281806199528
##	[41,]	NA	0.8454357059950	-0.1773023584283	NA
##	[42,]	NA	-0.9691613612767	-0.8288326584794	-0.3428750500139
##	[43,]	0.5744793653673	1.5964645245262	0.0817856315454	-0.2041674182888
##	[44,]	-0.5944482263015	0.8366901986411	NA	-1.7415525109259
##	[45,]	NA	-0.9119975247549	-0.2288023305542	1.3929615773480
##	[46,]	0.1109276949767	0.1369950774902	1.6094145912827	1.3362399257983
##	[47,]	NA	NA	NA	-0.3249547686726
##	[48,]	0.2708412788494	NA	-0.0732603515413	1.5998069608510
##	[49,]	0.5635971102217	NA	-1.1930026720311	NA
##	[50,]	NA	0.1035964639741	0.1154412017658	0.3359914703202
##	[51,]	NA	NA	NA	NA
##	[52,]	0.4628258853603	-0.8030846107089	0.4053798094264	-1.1555414871701
##	[53,]	0.1733289742015	NA	0.0696483536493	0.6340105329670
##	[54,]	-0.6411416927188	-1.7670768513577	0.2422818697821	-1.3251043127000
##	[55,]	0.0041879677481	0.1245565179362	NA	0.8081382021840
##	[56,]	-0.2706489643174	-0.2258737549257	NA	NA
##	[57,]	-1.5756739172976	-0.6129406194131	0.4828803959416	NA
##	[58,]	NA	NA	NA	0.1622430648453
##	[59,]	NA	NA	-1.7926269689643	-1.2249404957737
##	[60,]	-2.5762042187997	0.9440562359998	1.9893465925347	NA
##	[61,]	-2.3385828551459	NA	1.3638440553847	-1.5605312388134
##	[62,]	0.3223100097930	1.1929954204105	0.3487053750555	NA
##	[63,]	-0.2037423839290	NA	0.3604989865866	NA

##	[64,]	-0.8480712406488	1.1207306349136	0.0228820518228	-1.4110951451285
##	[65,]	0.3163085402559	-0.2205879226813	-0.3384770089602	NA
##	[66,]	1.5116958357251	-0.9532774552832	NA	-0.9388492181846
##	[67,]	-0.6872720062061	-0.8951021989464	NA	-1.7435245608477
##	[68,]	-0.9591887772192	-1.4537038597001	NA	-0.6134837281435
##	[69,]	-0.9109674144566	0.3330794578324	-0.1714113921960	NA
##	[70,]	-0.6236332553299	NA	NA	0.0604833748849
##	[71,]	NA	0.2086045720988	0.0241362808564	-2.5553745668896
##	[72,]	-1.6454096655237	-1.3924479099231	1.0303182843923	-0.6645794075507
##	[73,]	NA	-0.1668094607626	NA	1.2706152465936
##	[74,]	0.1056794646447	3.0550088589520	0.7892693665523	-0.5124576788697
##	[75,]	NA	1.3957898523010	2.6035986554637	-0.4933243497912
##	[76,]	-1.1062165398530	-1.2979178963322	NA	NA
##	[77,]	0.9295608148504	NA	NA	1.1464938216176
##	[78,]	1.1198589374920	0.3071799942123	0.1592866019089	-0.7304439812080
##	[79,]	NA	1.3665658581273	-1.1461352122482	0.1357916399632
##	[80,]	1.8681168124490	0.0540673730616	NA	0.1222717403515
##	[81,]	0.6324691877465	NA	-0.6543107829780	0.5873234757442
##	[82,]	1.0672838929012	-1.1482590460282	0.3592614254826	NA
##	[83,]	-1.7842965715600	0.0856025255258	NA	1.3986466053612
##	[84,]	0.6909506087401	0.9044763408253	1.0232981194798	0.0906100886571
##	[85,]	-0.1697592910167	1.3674631499808	NA	-0.9371785375044
##	[86,]	1.0113662783652	-0.9051056754229	NA	NA
##	[87,]	0.3134512443702	0.5813537870704	-1.2478741305951	NA
##	[88,]	-1.5357596840853	-0.6835928664350	-1.7796217846091	-0.9429257032602
##	[89,]	-1.9716370701153	0.8708659662025	NA	-1.9535888927755
##	[90,]	-1.4646722104446	-0.6441486836687	NA	-1.0507512764029
##	[91,]	-1.3957890812181	NA	1.1497706629019	0.2978377716915
##	[92,]	-1.1496185105834	0.7760906824801	NA	NA
##	[93,]	NA	-0.1775889835541	NA	-1.7331450840105
##	[94,]	-1.1675265445760	NA	1.6282107499336	NA
##	[95,]	-1.5508504343462	0.2290737921659	-1.2632332155741	-0.1613726720484
##	[96,]	-1.2544222634504	NA	-1.9927854991653	-0.0837882213336
##	[97,]	-2.0853020539512	0.2176927884953	1.7736472916539	-1.9669319013913
##	[98,]	2.3216747524280	0.6104066296593	NA	-0.7263304048330
##	[99,]	1.9271810071643	-1.0785611655054	-0.5986566799603	-0.3325509712518
##	[100,]	0.0871205721033	-1.7744122685285	-0.1428107470088	NA
##		[,85]	[,86]	[,87]	[,88]
##	[1,]	NA	NA	-0.360990483241	-0.577515117260
##	[2,]	-1.03486734402	NA	1.686532248305	0.903654699899
##	[3,]	-0.75442846073	0.0886628906704	NA	1.509110076042
##	[4,]	NA	1.0191428207618	NA	NA
##	[5,]	NA	0.3357878355194	NA	0.688614442229
##	[6,]	0.18629257611	0.5017100489380	-0.365197447698	-1.857020050949
##	[7,]	0.22630065349	1.3829067323032	0.588106841793	-0.625784273930
##	[8,]	-1.17277123290	0.1964322875983	0.531928238014	0.496045146094
##	[9,]	-0.43340384695	NA	1.004812764348	0.265016751281
##	[10,]	0.04827458345	-0.8678708059188	NA	-0.589533542133
##	[11,]	NA	-0.3048158049023	1.478065646882	1.195100810136
##	[12,]	1.50200909551	NA	-0.387752146592	1.038695166568

##	[13,]	0.29264733298	NA	0.164723908172	-0.738874784687
##	[14,]	-0.40110452886	1.0526067460115	NA	NA
##	[15,]	NA	NA	NA	0.216138679010
##	[16,]	-1.05664740466	-1.4681459114929	-1.150013834042	-0.637999456872
##	[17,]	NA	0.6202287250947	-0.231893323208	NA
##	[18,]	NA	0.6998535979568	2.850888951765	NA
##	[19,]	1.45242230256	-0.4601582422946	0.437519199713	NA
##	[20,]	NA	1.0107371507806	-0.106191103535	0.911541904228
##	[21,]	0.32435640693	0.6517624813569	-0.255405815937	NA
##	[22,]	-1.04218140101	-0.7672616354926	NA	-0.906234851893
##	[23,]	-0.65141017900	0.7529126593869	0.855789872396	0.307629483844
##	[24,]	0.20604698140	1.7679486449247	-1.011609824201	0.995008440628
##	[25,]	-0.56472864516	-0.6718917017560	0.809725553258	-0.430706086050
##	[26,]	-0.18950735625	NA	0.221163165015	NA
##	[27,]	NA	-0.7291079281945	NA	1.440084554341
##	[28,]	0.67777092625	0.6756122816463	-0.594489333075	0.039551628220
##	[29,]	NA	-1.0536245072729	-0.866061841832	0.190158975050
##	[30,]	NA	-0.2571919410101	NA	1.064161645905
##	[31,]	NA	-1.2653446974843	NA	0.836021587292
##	[32,]	-0.45261463126	1.6183280885649	-0.987688575852	NA
##	[33,]	1.02836213564	-1.2385788140152	-1.113046640631	-0.735528142772
##	[34,]	2.00560875192	0.0014484206199	0.444552999063	-0.700083217889
##	[35,]	NA	-1.4218946394440	-0.226839290289	-1.217694985576
##	[36,]	0.97546585053	-0.6178856589271	-0.340951245292	0.919473816908
##	[37,]	-1.66431375806	-1.9520777823952	NA	-0.305684988834
##	[38,]	0.94773262924	1.3090871744280	0.454179801084	1.867605889114
##	[39,]	0.19650993935	-0.3661604533460	-1.895221122268	NA
##	[40,]	0.58782351147	NA	-0.339877488619	-0.713369878659
##	[41,]	0.11305289947	NA	-0.624368677956	NA
##	[42,]	NA	0.8237278215831	0.443649847035	0.059298210951
##	[43,]	-0.84050820315	-1.9781166255283	0.331272355173	-0.531038865901
##	[44,]	-0.73571579558	1.3508396338624	0.800660962894	3.410890963977
##	[45,]	-0.14394027012	-0.1425884023847	NA	-0.949521969735
##	[46,]	2.16738323202	-0.2346423149103	1.230446590832	-0.739392810714
##	[47,]	NA	0.5765179978237	NA	NA
##	[48,]	-0.37077960377	0.9137098997746	NA	NA
##	[49,]	-0.33371178476	1.4678336688500	-2.202987422759	0.252258639974
##	[50,]	NA	-0.7094086866897	0.299940394542	-0.381295168984
##	[51,]	0.81929412932	0.2072087647823	NA	NA
##	[52,]	1.39919538270	NA	-0.076201969324	NA
##	[53,]	NA	1.6266347307582	-0.624888392375	-0.634171042544
##	[54,]	NA	-0.4001265820853	-0.991691196314	NA
##	[55,]	-2.74805425307	-0.1178208145113	-0.894545736788	NA
##	[56,]	-0.69768156933	0.9694272677230	-0.557839421955	NA
##	[57,]	NA	1.1120510551368	NA	NA
##	[58,]	-0.43560702129	-0.9292075332365	NA	0.251613414335
##	[59,]	NA	0.0981241749640	NA	0.854895001516
##	[60,]	1.23429882387	NA	NA	-0.829413973104
##	[61,]	-0.48634522238	NA	1.023096056119	-1.336981187441
##	[62,]	-0.79958092218	-1.2154134579380	-0.030260075039	0.495390399984

##	[63,]	0.16077921167	-0.0816485326772	NA	-2.134075999087
##	[64,]	0.95045870639	-0.3002022791307	1.476644811638	1.766490166961
##	[65,]	-0.58182326008	NA	NA	0.991222591872
##	[66,]	NA	-0.1731240180485	NA	-1.735739929088
##	[67,]	NA	NA	-0.370081504661	0.085013068564
##	[68,]	-1.48753730882	-1.5028077290396	1.209210695713	0.481554286473
##	[69,]	NA	NA	-1.763594458441	NA
##	[70,]	0.95305305156	-0.0199298313294	NA	1.531855117191
##	[71,]	1.47062531436	-0.1188818590261	0.358642435422	NA
##	[72,]	NA	-0.1361366167093	NA	1.605610467666
##	[73,]	NA	0.5603023053339	-0.886448511287	-0.366638973857
##	[74,]	2.15951441458	0.5562984462969	NA	NA
##	[75,]	0.56277537574	-1.4533653827139	0.014967985529	NA
##	[76,]	0.89251296802	NA	NA	-0.472100506055
##	[77,]	-0.21360175627	0.1846144059141	0.246973396627	NA
##	[78,]	NA	NA	NA	-1.701939693661
##	[79,]	NA	-0.5464680120047	-0.451764563631	-0.867843257467
##	[80,]	-0.10260617965	-0.0913755542788	-0.051124893988	-1.735806646061
##	[81,]	-0.82225610786	NA	0.064921136824	-2.067956739364
##	[82,]	-0.24146208067	-1.6562638888441	0.203332095091	0.693345352980
##	[83,]	NA	-0.7109274554406	-0.673530385349	NA
##	[84,]	-1.43536314149	NA	NA	0.208717030891
##	[85,]	NA	-1.5127748722153	NA	1.332602219402
##	[86,]	0.95768698512	0.1289827704516	NA	NA
##	[87,]	-0.77781384833	1.3767915307034	0.107018292731	-0.364532919959
##	[88,]	0.10002766503	NA	-0.710112445875	-0.380845641349
##	[89,]	-0.73838455462	-0.8680910414007	-0.616250154340	NA
##	[90,]	0.43130544052	NA	NA	0.852168204369
##	[91,]	NA	-0.7877485667708	NA	NA
##	[92,]	NA	-0.8050091460565	-0.909754100566	NA
##	[93,]	0.16508713526	-2.1972765113676	2.073721977439	NA
##	[94,]	-0.75901516343	-0.6711371779172	NA	0.062003578518
##	[95,]	NA	NA	0.097889625512	NA
##	[96,]	NA	1.5434524413187	-0.205501924144	1.003876548540
##	[97,]	-0.47746817407	-2.0450822308953	0.160775020580	NA
##	[98,]	2.43944840733	-0.9110016014555	-0.886835484221	NA
##	[99,]	-1.80900882974	1.8619282800375	-2.169480178268	-0.395785860760
##	[100,]	NA	0.5880366329775	-0.698961135441	0.679468768544
##		[,89]	[,90]	[,91]	[,92]
##	[1,]	2.7403439247490	0.327923452649	NA	0.8132878565860
##	[2,]	1.6542628084374	-0.348083525025	1.767064584227	NA
##	[3,]	0.0235573450875	1.137786227320	NA	NA
##	[4,]	-0.2335727835321	-0.702051660768	0.260373590399	NA
##	[5,]	1.7775114196161	1.333886816869	-0.671636450093	-0.2843598463656
##	[6,]	NA	-0.756172140958	-0.466043318285	-0.2606456305708
##	[7,]	-0.7199654026382	-0.094884259442	NA	0.0156858685274
##	[8,]	-0.4063697748262	NA	0.185852004426	0.6636612282403
##	[9,]	-0.7673263782948	-0.118704167627	0.921479182352	-0.3356940661987
##	[10,]	1.1670835401768	0.701369693272	0.619759820043	NA
##	[11,]	NA	NA	0.120831678078	-0.3375025919580

##	[12,]	-1.6771671204703	1.027341169856	0.970206605338	-0.1331334834813
##	[13,]	NA	-0.756795602995	1.117277137132	NA
##	[14,]	1.1285601258069	1.665327908735	1.840835328421	-0.0634861452882
##	[15,]	0.6831286705975	NA	NA	-0.5431626524060
##	[16,]	0.8581184069002	-0.943791765454	NA	-0.0184298761352
##	[17,]	1.9589507287525	0.154450064246	-0.238084634120	0.6825524928034
##	[18,]	0.1869033366569	-1.381529652198	NA	NA
##	[19,]	NA	0.181104131544	NA	NA
##	[20,]	-0.2045212557314	NA	-1.238880586592	0.6228960966555
##	[21,]	0.4720079997960	-0.701997221124	-0.949514870195	-0.6163947336123
##	[22,]	-2.0502454428707	0.396950144935	NA	-0.3805519888758
##	[23,]	NA	0.715765787388	-1.308311284602	NA
##	[24,]	1.3495202764242	-0.597701423673	-1.851057246561	NA
##	[25,]	NA	-0.927083900535	NA	NA
##	[26,]	NA	0.339328401183	0.896652612614	0.1631207299222
##	[27,]	NA	NA	-1.318738336926	NA
##	[28,]	0.2501198105357	NA	NA	-0.2612630723915
##	[29,]	-1.0513044110637	NA	-0.052387560732	-0.0005877290338
##	[30,]	-1.7070564082796	-2.270465376023	-0.942084457885	-0.2326637241380
##	[31,]	0.2937440362121	NA	-1.451279227252	1.4931056199701
##	[32,]	-0.2895544512089	NA	0.113903183809	-1.3340650013439
##	[33,]	NA	-0.323357503896	0.111924227381	1.2600951457943
##	[34,]	NA	-1.302540591050	0.258306325072	1.0220951786086
##	[35,]	NA	NA	NA	-1.3774378460767
##	[36,]	-0.2191091169477	-1.227581620797	-1.013115907418	1.0491587737673
##	[37,]	-0.4458221345184	-0.360612090636	NA	1.8884407454826
##	[38,]	1.5838142276468	1.261840576638	-1.661913359365	0.4400407456903
##	[39,]	NA	-0.802493340700	0.393548833588	NA
##	[40,]	NA	2.021007477579	0.596318743617	-0.2595608396383
##	[41,]	NA	NA	NA	NA
##	[42,]	1.8564339933910	-0.922390279701	-0.684205406677	NA
##	[43,]	0.4255667432856	-1.149693470967	NA	-0.9501454449373
##	[44,]	NA	NA	-2.260690964559	0.1561835324597
##	[45,]	0.4215114076214	NA	0.757307121607	NA
##	[46,]	0.1805660303986	0.214173151133	-0.027667891602	-0.1801958148046
##	[47,]	0.3014031361844	-0.369393108903	-0.387498265422	0.5193568140141
##	[48,]	-0.8892473897169	NA	NA	0.6722898114752
##	[49,]	0.1964295380092	-0.768227584116	0.988040172354	-1.2547838429838
##	[50,]	1.2174629569699	NA	-0.263117601142	0.1026467680178
##	[51,]	NA	-0.289484399514	0.858713615160	-0.3308362785393
##	[52,]	0.0966560633982	NA	1.213043175148	-0.5672773381862
##	[53,]	1.1628735003074	NA	NA	-0.3285628573527
##	[54,]	0.5665870145590	NA	-0.798038798224	-0.8783657132175
##	[55,]	1.5246218443309	NA	NA	NA
##	[56,]	NA	-0.027881591662	1.718365450223	-1.3771213082898
##	[57,]	0.2558918143223	NA	NA	-1.2630440586717
##	[58,]	-1.2902711310578	-1.549903808948	NA	0.0376513127285
##	[59,]	NA	-1.765187486054	NA	0.4478200455415
##	[60,]	-0.2983663933085	NA	-0.924269209524	0.8197648945545
##	[61,]	NA	NA	NA	NA

##	[62,]	-0.2784291853916	-1.313811990513	0.231577288375	-1.4219010958074
##	[63,]	NA	-0.222640844202	0.853913328159	0.3128267238912
##	[64,]	-0.2717648306856	-0.432606902684	-0.479482471318	NA
##	[65,]	NA	-0.122430141193	1.379253941816	-1.0915847871576
##	[66,]	0.1754556950769	0.428048418882	1.345672846846	1.3906666594990
##	[67,]	NA	1.882469979620	0.261365434269	-0.7269170290339
##	[68,]	NA	-2.283650195115	NA	-0.1255927724277
##	[69,]	-1.1122113484079	NA	-0.242550388519	NA
##	[70,]	NA	-0.604537990856	NA	-0.0552487100436
##	[71,]	-0.1945498059345	0.158448240005	-0.293552882853	NA
##	[72,]	NA	0.096893423533	0.860589047651	-1.1842679317382
##	[73,]	1.2846749142798	NA	NA	NA
##	[74,]	NA	0.591195265504	0.976766348828	1.1260569040916
##	[75,]	NA	-0.262672556936	NA	-0.5536881011589
##	[76,]	-1.0186754237386	-1.079016890425	NA	NA
##	[77,]	0.2345859951543	-0.915659253175	NA	NA
##	[78,]	-0.2101577973535	-0.925942526303	1.296399084126	0.9752909570428
##	[79,]	-0.0012155967759	0.058015921768	NA	-0.6436913496105
##	[80,]	0.4898894397251	-0.030457114205	NA	NA
##	[81,]	-0.3353121527377	1.123796613840	-0.730005276445	-0.9958769619879
##	[82,]	0.1464593954446	1.939263939337	NA	NA
##	[83,]	NA	0.260501460208	NA	0.3701331350157
##	[84,]	NA	-0.634015705483	NA	NA
##	[85,]	NA	-1.613177301909	NA	-0.6386529450454
##	[86,]	-0.1684496753628	0.701984929751	NA	-1.3415978348966
##	[87,]	NA	-0.931550103210	0.387742881548	0.3327250183761
##	[88,]	1.4338208262713	NA	0.290497355539	0.7151063685077
##	[89,]	NA	-0.457763800537	-0.793935613190	-0.7451232176230
##	[90,]	-0.8972382011681	0.378468168153	NA	0.9746678216491
##	[91,]	NA	0.250015782388	0.780016895871	0.3459461831537
##	[92,]	-1.3728948078380	-1.576580508828	NA	NA
##	[93,]	0.9997897785341	-0.705170225298	-0.015837046199	-0.5144500439745
##	[94,]	-0.8663712949156	NA	NA	0.6972447537483
##	[95,]	-0.6972846537308	-2.291796282064	NA	NA
##	[96,]	-0.2118384199813	1.391566571831	NA	-1.8915119431458
##	[97,]	NA	NA	NA	0.1849639163471
##	[98,]	NA	-0.560195172319	-0.545142878632	-0.0408352404346
##	[99,]	NA	-0.496620011701	-2.262008980525	-0.3075289004059
##	[100,]	NA	-0.519278516231	NA	-0.4887498641309
##		[,93]	[,94]	[,95]	[,96]
##	[1,]	NA	1.0852468014285	NA	2.235840457807
##	[2,]	0.4615032139728	-0.5347793246344	NA	1.474867675253
##	[3,]	-0.1196596490243	NA	0.4529791635084	NA
##	[4,]	NA	NA	NA	0.790434051115
##	[5,]	NA	NA	NA	-1.932003505589
##	[6,]	NA	0.8658129651462	1.3109062945275	1.435151980275
##	[7,]	NA	NA	1.4151163636455	NA
##	[8,]	-1.5224213432397	0.7240892208098	-0.9170781100080	NA
##	[9,]	0.5400295742698	1.5673848088339	-0.6750721058608	-1.031839808666
##	[10,]	0.3587980269516	-0.9246622364416	-0.3675441281867	0.100756941185

##	[11,]	NA	0.3764780384386	NA	1.112783936342
##	[12,]	NA	NA	-1.8958115248139	2.746886065968
##	[13,]	2.0197205069223	0.1605957165258	-0.1512400290955	NA
##	[14,]	0.3670394418019	0.2922431947344	NA	NA
##	[15,]	0.1651338025440	-0.2463409173746	0.0934996649739	NA
##	[16,]	NA	NA	0.6420665713284	NA
##	[17,]	0.0060442056074	NA	0.0958391776902	1.139308675019
##	[18,]	NA	-2.3919180677643	1.0283402699557	0.800353462007
##	[19,]	NA	-0.8000170930078	NA	1.399849093088
##	[20,]	NA	-0.4736127763215	NA	NA
##	[21,]	-0.1071320361904	NA	1.4192453244489	1.035334967642
##	[22,]	NA	0.0571720339710	1.1316925128988	-0.424454361233
##	[23,]	0.7947681410459	0.8008199576256	0.4354358769336	0.564720028689
##	[24,]	0.6552788057938	0.8156729403855	NA	0.738737001060
##	[25,]	-0.0552707794166	0.3803181184859	-0.3808129094778	1.595758221558
##	[26,]	NA	-2.0811330658544	NA	0.553952963443
##	[27,]	NA	NA	0.1063067520796	1.819926269856
##	[28,]	0.2741242278549	-1.3355065390596	-2.0197456057269	0.386917678430
##	[29,]	-0.7927783116975	NA	0.3536361125280	-0.242570594654
##	[30,]	-1.4675014502887	NA	0.8141371270215	0.336716711290
##	[31,]	NA	-0.3331214198948	NA	0.504035061765
##	[32,]	1.1366743946308	-1.8421536362163	0.2745179358427	0.493814646269
##	[33,]	-1.2981006944329	3.2352535621241	-0.0695056047307	NA
##	[34,]	-0.0411645552651	0.8379902391612	2.7722072703209	0.754135292601
##	[35,]	NA	-0.0183366659456	-0.4128244176267	1.467464358267
##	[36,]	NA	1.4587160613424	0.9213864002009	NA
##	[37,]	0.2946609379189	1.3350114348915	NA	0.140520665501
##	[38,]	0.1613411405754	NA	-0.4789696941884	0.045702868884
##	[39,]	NA	0.3695649805807	NA	NA
##	[40,]	NA	0.9220677443043	0.0907834208846	-0.762084280299
##	[41,]	0.0547266926501	NA	-0.3189402816018	-0.651095333241
##	[42,]	1.4197622802401	-0.0080777599817	NA	NA
##	[43,]	0.7740470669638	0.0838819775602	NA	NA
##	[44,]	-0.4079017858426	0.4962238845932	0.9662639884105	0.335371430654
##	[45,]	NA	NA	0.9390558662161	0.608272231104
##	[46,]	1.0425350841149	0.2282161035786	0.8328771159487	0.135965465974
##	[47,]	NA	-0.9292899899086	NA	-0.863583869898
##	[48,]	0.5864418401427	2.1463937133058	-0.3424000246288	-0.072516461663
##	[49,]	NA	NA	NA	1.374850068246
##	[50,]	0.7317001572931	NA	1.3191122166540	-0.950134462657
##	[51,]	NA	-0.7405409282279	-0.0201409975155	0.315859673857
##	[52,]	-2.3430555039643	NA	-0.7609356641874	0.150577316796
##	[53,]	1.9594030215408	-0.3535881838608	-1.5870414934611	0.539900242564
##	[54,]	-0.5203481365483	NA	0.3458634974517	0.609221894077
##	[55,]	-1.3191065986781	-1.5990579775304	-0.0786235654805	-1.290968347018
##	[56,]	-1.0832087961494	0.4192163682447	-1.3986668559184	NA
##	[57,]	-3.1530413000436	NA	0.8506344490349	-0.292624830753
##	[58,]	NA	0.0276836633604	0.2250361682757	-0.805596009070
##	[59,]	0.2232071418856	NA	-0.1626423969671	NA
##	[60,]	-0.9536687584086	-1.5977476482649	NA	1.477357802440

##	[61,]	0.5525770058778	0.8604397786920	-0.3303040536670	0.184646449625
##	[62,]	1.7734360433165	NA	NA	0.634307734084
##	[63,]	0.7998553911867	0.6206204446387	-0.4640193747047	-0.526834162041
##	[64,]	-2.5275533127686	1.2691884884048	-0.3483673155834	-0.571346890489
##	[65,]	NA	NA	-1.7394228371587	NA
##	[66,]	0.7212106258110	NA	-0.5594660532372	-0.292325779199
##	[67,]	0.8744947888164	-1.5334770644982	NA	0.795122844621
##	[68,]	NA	1.4858469067874	1.9708846633588	0.815614779425
##	[69,]	0.8527556931304	-0.2913493259496	-1.7480936773810	0.443947054404
##	[70,]	-0.2006530345154	-0.3038860125772	NA	-0.872049597399
##	[71,]	NA	NA	0.0231484301294	-1.686151566459
##	[72,]	-0.1437432026233	-0.2462072902780	1.3725728674934	NA
##	[73,]	0.3003466924515	NA	-1.3349677880981	0.157700171026
##	[74,]	NA	-1.3352684780895	-0.1683589892005	0.192189742098
##	[75,]	-0.1816725647878	NA	NA	0.692176117820
##	[76,]	0.6544369507563	-0.1898356753503	1.2469301968503	-1.259027634430
##	[77,]	-0.2001854881161	-0.1461282564977	0.5286159739557	-0.233484880674
##	[78,]	NA	-0.3544184923725	-0.5273986199806	-0.197475495594
##	[79,]	NA	-0.5830687585362	-0.0586696561335	-1.343510825438
##	[80,]	NA	-0.5042025468776	0.1672105599136	NA
##	[81,]	-0.1069082301984	-1.6593444199600	-0.1784659148876	NA
##	[82,]	-0.5626342257562	NA	0.8893966277868	-0.549770380166
##	[83,]	1.6120261628230	NA	NA	-1.338413240321
##	[84,]	-0.3261108260435	-1.2733849120733	-2.0679297292271	-0.049738031763
##	[85,]	0.4349257778596	1.1358515995622	NA	0.411495577054
##	[86,]	0.4353498057696	NA	NA	NA
##	[87,]	0.8282549123029	NA	-1.2016207331615	NA
##	[88,]	0.1667825417361	-0.0684713729941	NA	-0.104810375402
##	[89,]	NA	-0.5179648559624	0.4577667753016	NA
##	[90,]	NA	0.5701217420504	NA	NA
##	[91,]	-0.9128632981326	NA	NA	NA
##	[92,]	1.1566100176112	-0.0484704535023	NA	-0.061017296280
##	[93,]	NA	-0.0705734662757	0.0015470549553	NA
##	[94,]	-1.0394273301645	NA	NA	-0.499590177613
##	[95,]	0.7786106805385	-0.5896892796553	-1.0181585745544	-1.257237199377
##	[96,]	0.4327551937983	1.0886901883846	1.2163227410928	1.015531566612
##	[97,]	NA	-1.3893119586755	-0.3166957884188	-1.413837402562
##	[98,]	-0.2081434781434	-0.2882523687536	-1.0564172447537	-1.495492874267
##	[99,]	-1.5814791332697	0.1545707646692	NA	0.325022718447
##	[100,]	-2.3004214311757	NA	0.5009024678321	-1.757321255652
##	[,97]	[,98]	[,99]	[,100]	
##	[1,]	-0.625514834866	0.781605635947	0.7736089825198	-0.134699368831
##	[2,]	NA	0.404806037573	NA	NA
##	[3,]	0.263072665159	-0.354819652500	-0.3388815699329	NA
##	[4,]	NA	1.165330532852	NA	0.456340081418
##	[5,]	0.350199454122	-0.330384364081	-0.7002655663292	0.126881613110
##	[6,]	-0.212689095813	-0.250431428048	NA	1.049213095466
##	[7,]	-0.083191344943	1.812739852058	-0.0975785029749	0.992817692674
##	[8,]	NA	0.748863771736	1.0225068877687	1.468636354426
##	[9,]	NA	NA	0.2699118555508	-0.048444441198

##	[10,]	NA	2.990687620977	0.4242230533808	1.114792508310
##	[11,]	2.361590299160	1.047330842482	1.5208284832876	0.662060059709
##	[12,]	1.042920062741	NA	0.7414007000003	0.833019464384
##	[13,]	0.888042046886	-1.321401667552	-0.9014925096880	0.346179773191
##	[14,]	2.838787473551	1.637086376645	NA	NA
##	[15,]	-1.150450688938	-2.055396199913	NA	-1.068616646580
##	[16,]	-0.698742934323	NA	0.5097340643053	NA
##	[17,]	NA	NA	0.0022024904667	-0.575940195139
##	[18,]	NA	-0.149235648374	2.2606787753115	NA
##	[19,]	-1.350211391326	-1.321255146679	-0.2516329998821	1.464459979247
##	[20,]	-0.232577543132	0.480518572679	NA	NA
##	[21,]	-0.592205971689	-1.236332953002	-0.9622060731238	-1.552054828202
##	[22,]	-0.051121133322	0.075362864510	NA	0.946668549171
##	[23,]	NA	0.037981725989	NA	0.124179749436
##	[24,]	0.894243292175	-0.373924187169	NA	0.984692969444
##	[25,]	NA	NA	-0.5998733372643	NA
##	[26,]	-1.765764578678	NA	-0.6137245671532	1.973313386498
##	[27,]	1.570209575009	0.793344033933	NA	0.430984047228
##	[28,]	1.640006242927	-0.541371933509	0.9876052856500	-0.414866063284
##	[29,]	NA	1.316966215756	0.3960916520962	-0.589121102635
##	[30,]	-0.094688277131	NA	0.2187310998552	1.395028149395
##	[31,]	0.400890711854	0.162151259928	NA	-1.763402671267
##	[32,]	-0.304762618977	NA	-0.3326160460784	1.466803714397
##	[33,]	0.665451789362	-0.438316854861	0.2930473081240	0.023689870837
##	[34,]	NA	1.434535124796	NA	-1.188125778915
##	[35,]	0.432974899377	NA	0.8662302755926	0.233126862104
##	[36,]	-0.817654493759	-0.618376311429	0.4273446001347	-0.137499826738
##	[37,]	-3.242410347151	0.170878271543	-1.3268511238995	NA
##	[38,]	-0.516205477413	-0.532199954362	-0.1598306702877	NA
##	[39,]	1.024767543566	NA	-0.4486911190642	-1.737336483241
##	[40,]	NA	NA	-1.2625594680439	NA
##	[41,]	-0.537424874607	1.256307470079	NA	NA
##	[42,]	0.317991512923	0.440590168904	-0.6492417729148	-0.266820395722
##	[43,]	0.374308178106	-0.600561025599	0.1331467517959	-1.781877546309
##	[44,]	-0.595331611668	-1.249144845169	NA	0.359461170351
##	[45,]	NA	-0.813806993375	NA	NA
##	[46,]	NA	NA	-0.3030455573946	-0.061424700509
##	[47,]	-2.480106658122	-0.608842054428	NA	-0.155291433483
##	[48,]	NA	NA	NA	-0.164759829270
##	[49,]	NA	-1.777439533473	1.0713694268656	NA
##	[50,]	1.725747913413	2.006814441437	0.9999652988373	0.925072683202
##	[51,]	-1.039997665269	NA	0.6215693207425	-0.382215433223
##	[52,]	-0.128606829008	0.409083969546	0.3199397932774	-1.582499891111
##	[53,]	1.335580260723	-0.716269012872	NA	NA
##	[54,]	0.020855996956	NA	NA	-1.803556054353
##	[55,]	0.504868784315	NA	NA	NA
##	[56,]	NA	0.927653141610	-0.6153788678587	NA
##	[57,]	1.174002193611	NA	NA	NA
##	[58,]	NA	-1.099578753323	NA	NA
##	[59,]	NA	-0.068876221138	-2.6908850237742	0.098997259902

```
## [60,] -0.462873729442 NA 0.6103002299539 -0.892120172600
## [61,] 0.428769921758 0.344728622227 NA -0.636059168345
## [62,] -0.809307989762 NA NA 0.071355401110
## [63,] 0.876530772642 0.375117023680 0.0160611591205 -1.484624790072
## [64,] 0.349130812808 -0.511575636419 NA 2.349560618055
## [65,] 1.216771895592 -1.177293349396 -0.0794330668464 0.577591283118
## [66,] -0.052876036276 1.360981269954 -0.8674535916267 -0.081625216526
## [67,] -0.342481674574 NA -1.0017279045704 1.018585579331
## [68,] -0.878807793481 NA -1.9010209766218 -1.169342210515
## [69,] -1.338397286866 NA -1.0495114880866 0.480369594136
## [70,] -1.849917184528 -1.888933124590 -0.7667116236818 0.534232354191
## [71,] NA -0.817316820165 -1.2392387811505 NA
## [72,] 0.706374488068 NA -0.8869248877942 0.975157426250
## [73,] -0.721824751903 -0.466455494323 1.4439836970907 -0.163644818357
## [74,] -0.688300342773 NA -0.3378862965916 -1.418839223677
## [75,] 0.707810054973 NA NA NA
## [76,] -0.218232608010 NA -1.0045092217953 0.339419899635
## [77,] -0.805087116611 0.680595344013 NA NA
## [78,] 1.034851668773 NA NA -0.110148019754
## [79,] NA 1.778195960986 NA NA
## [80,] 0.020645821434 -0.798679805303 NA NA
## [81,] 0.178513761160 0.257163384816 -1.8322044755528 NA
## [82,] NA NA -0.4092824266635 -2.033610985193
## [83,] NA 0.887805534338 -0.5403065609043 1.583373135437
## [84,] -1.731558597828 NA 0.7628072555988 NA
## [85,] -0.497974841786 -0.093570496035 1.4026065234494 0.870065240958
## [86,] -0.032323317347 -1.685056630951 NA NA
## [87,] NA -0.296242569679 1.1475889564203 1.785052291278
## [88,] -0.527834308828 -0.621447508568 -0.0924474626354 1.553208578259
## [89,] -0.728224509172 -0.341284929292 NA NA
## [90,] NA -0.032034308204 NA 0.246606787184
## [91,] -0.259171707731 NA -0.4919629174600 0.095017052268
## [92,] NA 0.111157223356 -0.3035302063626 -0.403356726441
## [93,] 0.586539874668 NA 0.0753842138388 -1.158854152698
## [94,] 0.142874581917 NA 0.4502294455375 -1.149257810463
## [95,] -0.905677327340 0.894378024951 0.7482886154085 0.292835230483
## [96,] -0.617321895610 -0.427297965210 1.2551861114017 -1.967579020560
## [97,] -0.150370445318 -0.488705320193 -1.1925165936481 1.026746306530
## [98,] -0.708265137235 NA NA -0.515245118780
## [99,] -2.074366003983 NA 1.0894623608858 -0.374903673355
## [100,] -1.413641935122 NA -2.2338906287684 0.048109846171
```

- We will now learn the `apply` function. This is a handy function that saves writing for loops which should be eschewed in R. Use the `apply` function to compute a vector whose entries are the standard deviation of each row. Use the `apply` function to compute a vector whose entries are the standard deviation of each column. Be careful about the NA's! This should be one line.

```
v <- apply(X=R[, ], MARGIN = 2, FUN = sd, na.rm=TRUE)
v
```

```
## [1] 0.91604471527 1.06790671240 1.02405107372 1.04372083581
1.03760188786
## [6] 1.01666279994 1.13036604954 0.86766463500 1.01992151141
0.93079390276
## [11] 0.97459843951 1.05008693215 0.92310367094 0.93695218828
0.85157007683
## [16] 0.95385701630 0.97596416037 0.91868460371 0.96129631797
1.04705792699
## [21] 1.06123347407 0.96174139738 0.95294394438 0.98632905216
0.87737627369
## [26] 1.08005647863 1.15534644736 1.17255918338 0.82684073205
1.05109331942
## [31] 1.00674713804 0.95026283441 1.01964320953 0.99039341309
1.06222459217
## [36] 1.18435188044 0.78328533818 1.26504455101 1.03419712899
0.98753739318
## [41] 0.83031221033 1.09190196763 0.93795705303 1.00148365242
0.92266550184
## [46] 0.85932420645 1.02169898023 0.93621503629 1.14908550144
0.90015677503
## [51] 1.04399628798 1.08657541516 1.07780823720 0.76075913077
0.98549158910
## [56] 1.05156206452 0.84767558761 0.99040697585 0.98861734819
1.01657010067
## [61] 0.90836591268 0.94843636801 1.04437928490 0.96314701417
0.96196959854
## [66] 0.97904227566 1.13105775182 1.16215815157 0.91157466559
1.01076609753
## [71] 0.99680681730 0.87916390958 1.02580963101 1.04217143936
1.01105538617
## [76] 0.82756026706 0.87911823557 1.18312636317 1.09856249835
0.83372375406
## [81] 1.04380371026 0.98489528258 1.05502087680 1.08419370384
1.02838042797
## [86] 1.01542796654 0.94193808359 1.06902933216 0.99146929591
0.98093645207
## [91] 1.00011487582 0.80177253188 1.05721331565 1.04238843668
0.98279588914
## [96] 0.98008955325 1.06049400756 1.02268097939 0.96411950916
1.04049055563
```

- Use the `apply` function to compute a vector whose entries are the count of entries that are 1 or 2 in each column. This should be one line.
- Use the `split` function to create a list whose keys are the column number and values are the vector of the columns. Look at the last example in the documentation `?split`.
- In one statement, use the `lapply` function to create a list whose keys are the column number and values are themselves a list with keys: “min” whose value is the minimum of the column, “max” whose value is the maximum of the column, “pct_missing” is the

proportion of missingness in the column and "first_NA" whose value is the row number of the first time the NA appears.

#TO-DO

- Set a seed and then create a vector `v` consisting of a sample of 1,000 iid normal realizations with mean -10 and variance 100.

```
set.seed(100)
n=1000
v <- dnorm(n, mean = -10, sd = sqrt(100))
v
## [1] 0
```

- Repeat this exercise by resetting the seed to ensure you obtain the same results.

```
set.seed(890)
n=1000
v <- dnorm(n, mean = -10, sd = sqrt(100))
v
## [1] 0
```

- Find the average of `v` and the standard error of `v`.

```
mean(v)
## [1] 0

stderr <- function(v, na.rm=FALSE) {
  if (na.rm) v <- na.omit(v)
  sqrt(var(v)/length(v))
}
stderr(v)
## [1] NA
```

- Find the 5%ile of `v` and use the `qnorm` function to compute what it theoretically should be. Is the estimate about what is expected by theory?

```
qnorm(0.05, mean=-10, sd=10)
## [1] -26.44853627
```

- What is the percentile of `v` that corresponds to the value 0? What should it be theoretically? Is the estimate about what is expected by theory?