

# GCN4R\_demo

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## Install package

```
# uncomment for installation
# install.packages("reticulate")
# devtools::install_github("jlevy44/gcn4r",ref="master")
# conda_create("gcn4r")
# conda_install("gcn4r", "gcn4r",pip=T)
# use_condaenv("gcn4r")
```

## Import Library, link anaconda to R studio

```
# http://moreno.ss.uci.edu/data.html
# reticulate::conda_list(conda = "auto")
reticulate::use_condaenv(condaenv = "gcn4r", conda = "/anaconda2/bin/conda")
reticulate::use_python("/anaconda2/envs/gcn4r/bin/python")
GCN4R<-import_gcn4r()
```

## Load data

Comment out below to download and save Lazega Network.

```
# devtools::install_github("zalmquist/networkdata")
# library(networkdata)
# data("lazega")
# saveRDS(asIgraph(lazega$FRIENDSHIP), "netdata.rds")
net<-readRDS("netdata.rds")

# alternative data
physician.files<-c("../gcn4r/data/A_physician.csv", "../gcn4r/data/X_physician.csv")
lawyer.files<-c("A_lawyer.csv", "X_lawyer.csv")
# load lawyer data from csv
# net.list<-generate.net.list(lawyer.files[1],lawyer.files[2])
# load lawyer data from igraph
net.list<-igraph2net.list(net)
# create factor variables
net.list$X[,c("na","vertex.names")]<-NULL
for (cat.var in c("gender","law_school","office","practice","status")){
```

```
net.list$X[,cat.var]<-as.factor(net.list$X[,cat.var])
}
```

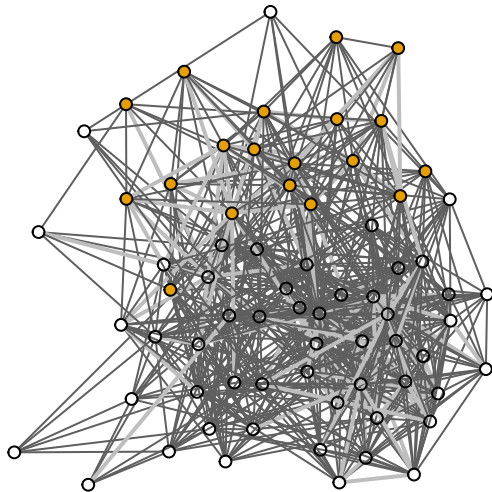
## Create design matrix to expand factors, update net.list

```
net.list$X<-model.matrix(~.,data=net.list$X)[,-1]
head(net.list$X)
```

```
##   age gender2 law_school2 law_school3 office2 office3 practice2 seniority
## 1  64      0          0          0      0      0          0          31
## 2  62      0          0          0      0      0          1          32
## 3  67      0          0          0      1      0          0          13
## 4  59      0          0          1      0      0          1          31
## 5  59      0          1          0      1      0          0          31
## 6  55      0          0          0      1      0          0          29
##   status2
## 1      0
## 2      0
## 3      0
## 4      0
## 5      0
## 6      0
```

## Visualize data

```
visualize.net2(net.list,covar = "office2")
```



```
##      [,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    0    0    0    0    0
## [4,]    0    0    0    0    0    0    0    0    0    0    0    0    1
## [5,]    0    0    0    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	0	0	0	0	0	0	0	0	0	0
## [10,]	0	0	0	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	1	0	0	0	1	0	0	1	0	1
## [13,]	0	0	0	0	0	0	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,]	1	1	1	1	0	1	0	0	1	0	0	1	1
## [20,]	1	1	0	1	1	0	0	0	0	0	0	0	1
## [21,]	1	0	0	0	0	0	0	0	1	0	1	0	1
## [22,]	1	1	0	1	0	0	0	0	0	0	0	0	0
## [23,]	1	0	1	1	1	0	0	1	0	0	1	0	1
## [24,]	1	1	0	0	0	1	0	1	0	1	1	1	1
## [25,]	0	0	1	0	0	0	0	0	1	0	0	1	0
## [26,]	1	1	0	1	1	1	0	1	1	0	1	1	1
## [27,]	1	1	0	1	1	1	0	0	1	1	1	0	1
## [28,]	0	0	1	1	1	1	1	0	0	0	0	1	1
## [29,]	1	1	0	1	0	0	0	0	1	0	0	1	0
## [30,]	1	0	1	0	0	1	0	0	0	0	0	0	0
## [31,]	0	0	0	1	1	1	0	0	0	0	0	0	1
## [32,]	0	0	0	0	1	1	0	0	0	0	0	0	0
## [33,]	0	0	0	0	1	0	1	0	0	0	0	0	1
## [34,]	0	1	0	0	0	0	0	0	0	1	0	1	0
## [35,]	0	0	0	1	1	1	1	0	0	0	0	0	0
## [36,]	1	0	0	0	0	0	0	1	0	0	0	0	1
## [37,]	0	0	0	0	0	0	0	0	0	0	0	0	0
## [38,]	0	0	0	0	0	0	0	0	0	0	0	0	1
## [39,]	1	0	0	0	1	0	0	0	0	0	1	0	1
## [40,]	0	0	0	0	0	0	0	0	0	0	1	0	0
## [41,]	1	0	0	1	0	0	0	1	0	0	1	0	1
## [42,]	0	1	0	1	0	0	0	0	1	0	0	1	1
## [43,]	1	1	0	0	0	0	0	1	0	0	1	0	1
## [44,]	0	1	0	0	0	0	0	0	0	1	0	0	0
## [45,]	0	0	0	1	0	0	0	0	1	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	0
## [48,]	0	1	0	0	0	0	0	0	1	1	0	1	1
## [49,]	0	0	0	0	0	0	0	1	0	0	1	0	1
## [50,]	0	0	0	0	1	1	0	0	0	0	0	1	0
## [51,]	0	0	0	0	1	0	0	0	0	0	0	0	1
## [52,]	0	0	0	0	0	0	0	1	0	0	0	0	1
## [53,]	0	1	0	0	0	0	0	0	0	1	0	0	0
## [54,]	1	0	0	0	1	0	0	0	0	0	1	0	1
## [55,]	0	0	0	0	0	0	0	0	0	1	0	0	1
## [56,]	0	0	0	0	0	0	0	0	0	0	1	0	1
## [57,]	0	0	0	0	0	0	0	0	0	0	0	0	1
## [58,]	0	0	0	0	1	1	1	0	0	0	0	0	1
## [59,]	0	0	0	0	1	1	0	0	0	0	0	0	0
## [60,]	0	0	0	0	0	0	0	0	1	1	0	1	0

## [61,]	0	0	0	0	0	0	0	0	0	0	0	0	0
## [62,]	0	0	0	0	0	0	0	0	0	0	0	1	0
## [63,]	0	0	0	0	1	0	0	0	0	0	0	0	0
## [64,]	0	1	0	0	0	0	1	0	0	1	0	0	1
## [65,]	0	0	0	1	0	1	0	1	0	0	1	0	1
## [66,]	0	0	0	0	0	0	0	0	0	0	0	1	1
## [67,]	0	0	0	0	0	0	0	0	0	0	0	0	1
## [68,]	0	0	0	0	0	0	0	0	0	0	0	0	1
## [69,]	0	0	0	0	0	0	0	0	0	0	0	0	0
## [70,]	0	0	0	1	0	0	0	0	0	0	0	0	0
## [71,]	0	0	0	0	0	0	0	0	0	0	0	0	1
##	[,14]	[,15]	[,16]	[,17]	[,18]	[,19]	[,20]	[,21]	[,22]	[,23]	[,24]	[,25]	
## [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	0	0	0	0	0
## [4,]	0	0	0	0	0	0	0	0	0	0	0	0	0
## [5,]	0	0	0	0	1	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	1	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	0	0	0	0	0	0	0	0	0	0
## [10,]	0	0	0	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	1	0
## [13,]	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	1	0	0	1	1	1	0	1	0	0
## [20,]	1	1	0	0	0	0	0	1	0	0	1	0	0
## [21,]	0	0	0	1	0	0	1	0	0	0	1	0	0
## [22,]	0	1	1	1	0	1	1	0	0	0	0	0	0
## [23,]	0	0	0	0	1	0	1	0	0	0	0	0	0
## [24,]	0	0	0	1	0	0	1	1	0	0	0	0	0
## [25,]	1	0	0	1	0	0	1	0	0	0	0	0	0
## [26,]	0	1	1	1	0	0	1	1	1	0	1	0	0
## [27,]	0	1	1	0	0	0	1	1	0	1	1	0	0
## [28,]	1	1	1	1	1	1	0	0	0	0	1	1	0
## [29,]	0	1	1	1	0	1	1	0	0	0	0	0	0
## [30,]	1	0	0	1	0	0	1	0	1	0	0	1	0
## [31,]	0	1	0	0	1	0	1	1	1	0	1	0	0
## [32,]	1	1	1	0	0	0	0	0	1	0	0	0	0
## [33,]	0	0	0	0	1	0	0	1	1	1	1	1	1
## [34,]	0	0	1	1	0	0	0	0	0	0	0	0	0
## [35,]	1	1	0	0	1	1	1	0	0	0	0	0	1
## [36,]	0	1	0	0	0	0	0	0	0	0	0	0	0
## [37,]	0	1	0	0	0	0	0	0	0	0	0	0	0
## [38,]	0	0	0	0	0	0	0	0	0	0	1	0	0
## [39,]	0	0	0	0	0	0	0	0	1	0	0	0	0
## [40,]	0	0	0	0	0	0	0	1	0	0	0	0	0
## [41,]	0	0	0	0	0	0	0	1	1	1	1	0	0
## [42,]	1	0	1	1	0	1	1	0	0	0	1	0	0

## [43,]	0	0	0	0	0	0	1	1	0	0	1	0
## [44,]	0	1	1	1	0	0	0	0	0	0	0	0
## [45,]	0	0	0	1	0	1	0	0	0	0	0	1
## [46,]	0	0	0	0	0	1	0	0	0	0	0	0
## [47,]	0	1	0	0	0	0	0	0	1	1	0	0
## [48,]	1	0	1	1	0	0	0	0	0	0	1	0
## [49,]	0	0	0	0	0	0	0	1	1	0	0	0
## [50,]	1	0	0	0	1	0	0	0	0	0	0	1
## [51,]	0	0	0	0	1	0	0	0	1	0	0	0
## [52,]	0	0	0	0	0	0	0	1	0	1	1	0
## [53,]	0	0	1	0	0	0	0	0	0	0	0	0
## [54,]	0	0	0	0	0	0	0	0	1	0	0	0
## [55,]	0	0	1	0	0	0	1	1	1	1	1	0
## [56,]	0	0	0	0	0	0	1	1	1	1	1	0
## [57,]	0	0	0	0	0	0	0	1	0	0	1	0
## [58,]	0	0	0	0	1	0	0	0	0	0	0	0
## [59,]	0	0	0	0	1	0	0	0	0	0	0	0
## [60,]	0	0	1	1	0	1	0	0	0	0	0	0
## [61,]	0	0	0	0	0	0	0	0	0	0	0	0
## [62,]	0	1	0	0	0	0	0	0	0	0	0	0
## [63,]	1	1	0	0	0	0	0	0	0	0	0	1
## [64,]	0	0	1	0	0	0	0	0	1	0	0	0
## [65,]	0	0	0	0	0	0	0	0	1	0	1	0
## [66,]	0	0	0	0	0	0	0	1	1	1	1	0
## [67,]	0	0	0	0	0	0	0	0	0	0	1	0
## [68,]	0	0	0	0	0	0	1	1	1	0	0	0
## [69,]	0	0	0	0	0	0	0	0	0	0	0	0
## [70,]	0	0	0	0	0	0	0	1	0	0	0	0
## [71,]	0	0	0	0	0	0	0	0	1	0	0	0
##	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]	[,37]
## [1,]	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
## [3,]	0	0	0	0	0	0	0	0	0	0	0	0
## [4,]	0	0	0	0	0	0	0	0	0	0	0	0
## [5,]	0	0	1	0	0	1	1	0	0	1	0	0
## [6,]	0	0	0	0	1	0	0	0	0	0	0	0
## [7,]	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
## [9,]	0	0	0	0	0	0	0	0	0	0	0	0
## [10,]	0	0	0	0	0	1	0	1	0	0	0	0
## [11,]	0	0	0	0	0	0	0	0	0	0	0	0
## [12,]	1	1	0	0	0	1	0	0	0	0	1	0
## [13,]	0	0	0	0	0	1	0	0	0	0	0	0
## [14,]	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
## [16,]	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
## [18,]	0	0	0	0	0	0	0	0	0	0	0	0
## [19,]	1	0	1	1	1	0	1	0	1	1	0	1
## [20,]	1	0	0	0	0	0	0	0	0	0	0	0
## [21,]	1	1	0	0	0	0	0	0	0	0	0	0
## [22,]	0	0	1	0	0	1	1	0	1	0	0	0
## [23,]	0	0	0	0	0	0	0	0	0	0	0	0
## [24,]	1	0	1	0	1	1	0	0	0	0	1	0

## [25,]	0	0	1	0	1	0	0	0	0	0	0	0
## [26,]	0	1	0	1	1	0	1	0	1	0	0	0
## [27,]	1	0	0	1	0	0	0	0	1	0	0	0
## [28,]	1	0	0	1	1	1	1	0	1	1	0	0
## [29,]	1	0	1	0	0	0	0	0	1	0	0	0
## [30,]	1	0	1	0	0	1	1	1	0	1	1	0
## [31,]	1	0	1	0	1	0	1	1	0	1	0	0
## [32,]	0	0	0	0	1	1	0	0	0	1	0	0
## [33,]	1	0	0	0	1	1	1	0	1	1	0	0
## [34,]	0	0	0	1	0	0	0	0	0	0	0	0
## [35,]	1	0	1	0	1	1	1	0	0	0	0	0
## [36,]	1	0	0	1	0	0	0	0	1	0	0	0
## [37,]	0	0	0	0	0	0	0	0	0	0	0	0
## [38,]	1	0	0	0	0	0	0	0	0	0	1	0
## [39,]	1	0	0	0	0	0	0	0	0	0	0	0
## [40,]	1	1	0	0	0	0	0	0	0	0	0	0
## [41,]	1	0	0	1	0	0	0	0	0	0	1	0
## [42,]	1	1	1	1	1	0	0	0	1	0	0	1
## [43,]	1	1	0	0	0	0	0	0	0	0	1	0
## [44,]	0	0	0	0	0	0	0	0	1	0	0	0
## [45,]	0	0	1	1	0	0	0	0	1	0	0	0
## [46,]	0	0	1	0	1	1	0	0	1	1	0	0
## [47,]	0	0	0	0	1	0	0	0	0	0	1	0
## [48,]	0	0	0	1	0	0	0	0	1	0	0	0
## [49,]	1	0	0	0	0	0	0	0	0	0	0	0
## [50,]	0	0	1	0	1	0	1	0	0	1	0	0
## [51,]	0	0	0	0	1	1	1	1	0	1	0	0
## [52,]	1	0	0	0	0	1	0	0	0	0	1	0
## [53,]	0	0	0	0	0	0	0	0	0	0	0	0
## [54,]	1	0	0	0	0	0	0	1	0	0	1	0
## [55,]	1	1	0	0	0	1	0	0	0	0	1	0
## [56,]	1	1	0	0	0	0	0	0	1	0	0	0
## [57,]	0	0	0	0	0	0	0	0	0	0	0	0
## [58,]	0	0	1	0	1	1	1	1	0	0	0	0
## [59,]	0	0	0	0	1	1	1	1	0	0	0	0
## [60,]	1	0	0	0	0	0	0	0	1	1	0	0
## [61,]	0	0	0	0	0	0	0	0	1	0	0	0
## [62,]	1	0	0	0	0	0	0	0	0	0	0	1
## [63,]	0	0	1	0	1	1	1	1	0	1	0	0
## [64,]	0	0	0	0	0	0	0	0	1	0	0	0
## [65,]	1	1	0	0	1	0	0	0	0	0	1	0
## [66,]	1	0	1	0	0	0	0	0	0	0	0	0
## [67,]	0	0	0	0	0	0	0	0	0	0	0	0
## [68,]	1	1	0	0	0	0	0	0	0	0	0	0
## [69,]	1	0	0	0	0	0	0	0	0	0	0	0
## [70,]	0	0	1	1	0	0	1	0	0	0	0	0
## [71,]	0	0	0	0	0	0	0	0	0	0	0	0
##	[,38]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]
## [1,]	0	0	0	1	0	0	0	0	0	0	0	0
## [2,]	0	0	0	0	0	0	0	0	0	0	0	0
## [3,]	0	0	0	1	0	0	0	0	0	0	0	1
## [4,]	0	0	0	1	0	0	0	0	1	0	0	0
## [5,]	0	0	0	0	1	0	0	0	0	0	0	0
## [6,]	0	0	0	0	0	0	0	0	0	0	0	0

## [7,]	0	0	0	0	0	0	0	0	1	0	0	0
## [8,]	0	0	0	0	0	0	0	0	0	0	0	0
## [9,]	0	0	0	0	0	1	0	0	0	0	0	0
## [10,]	0	0	0	0	0	0	0	0	0	0	0	0
## [11,]	0	1	0	0	1	1	0	0	1	0	1	0
## [12,]	0	1	0	1	1	0	0	1	0	0	0	1
## [13,]	0	1	0	0	0	0	0	0	0	0	0	0
## [14,]	0	0	0	0	0	0	0	0	0	0	0	0
## [15,]	0	0	0	1	0	0	0	0	0	0	0	0
## [16,]	0	0	0	0	0	0	0	0	0	0	0	0
## [17,]	0	0	0	0	0	0	0	1	0	0	0	0
## [18,]	0	0	0	0	0	0	0	0	0	0	0	0
## [19,]	0	0	0	0	1	1	0	1	1	0	0	0
## [20,]	0	0	1	0	0	0	0	0	0	0	0	0
## [21,]	0	0	1	1	0	0	0	0	0	0	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,]	1	0	1	1	0	1	0	0	0	0	0	0
## [25,]	0	0	0	0	0	0	0	0	0	0	0	0
## [26,]	0	0	1	1	0	0	0	0	0	0	0	0
## [27,]	0	0	1	1	0	0	0	0	0	0	0	0
## [28,]	0	0	0	0	0	0	0	1	1	0	0	0
## [29,]	0	0	0	0	0	0	0	0	0	0	0	0
## [30,]	0	1	0	0	0	0	0	0	0	0	0	0
## [31,]	0	0	0	1	0	0	0	0	0	0	0	0
## [32,]	0	0	0	0	0	0	0	0	0	0	0	0
## [33,]	1	0	0	1	0	0	0	0	0	0	0	0
## [34,]	0	0	0	0	0	0	0	0	0	0	0	0
## [35,]	1	0	0	0	0	0	0	0	1	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	1	0	0
## [38,]	0	0	1	1	0	0	0	0	0	0	0	0
## [39,]	0	0	1	1	1	0	0	0	0	0	1	0
## [40,]	1	1	0	1	0	1	0	0	0	0	0	0
## [41,]	1	1	1	0	0	1	0	1	0	0	0	1
## [42,]	1	1	1	1	0	0	0	0	0	0	1	0
## [43,]	0	0	1	1	0	0	0	0	0	0	0	0
## [44,]	0	0	0	0	0	0	0	0	0	0	0	0
## [45,]	0	0	0	0	1	0	0	0	1	0	0	0
## [46,]	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
## [48,]	1	1	0	0	0	1	0	1	1	0	0	0
## [49,]	0	0	1	1	0	0	0	0	0	0	0	0
## [50,]	0	0	0	0	0	0	0	0	0	0	0	0
## [51,]	1	1	1	1	0	1	0	0	0	0	0	1
## [52,]	1	1	1	1	0	0	0	0	0	0	0	1
## [53,]	0	0	0	0	0	0	0	0	0	0	0	0
## [54,]	0	0	1	1	0	0	0	0	0	0	0	0
## [55,]	1	1	1	1	0	1	0	0	0	0	0	1
## [56,]	1	1	1	1	0	0	0	0	0	0	0	0
## [57,]	1	1	1	1	0	1	0	0	0	0	0	0
## [58,]	0	0	0	0	0	0	0	0	0	0	0	0
## [59,]	0	0	0	0	0	0	0	0	0	0	0	0
## [60,]	0	0	0	0	0	0	0	1	1	0	0	0

## [61,]	0	0	0	0	0	0	0	0	0	0	0	0
## [62,]	0	0	0	0	0	0	0	1	0	0	0	0
## [63,]	0	0	0	0	0	0	0	0	1	0	0	0
## [64,]	0	0	0	0	0	0	0	0	0	0	0	0
## [65,]	1	1	1	1	0	0	0	0	0	0	0	1
## [66,]	0	1	1	1	0	0	0	0	0	0	0	1
## [67,]	1	1	1	0	0	1	0	0	0	0	0	1
## [68,]	0	0	1	1	0	0	0	0	0	0	0	0
## [69,]	0	1	0	0	0	0	0	0	0	0	0	1
## [70,]	0	0	1	0	0	0	0	1	0	0	0	0
## [71,]	0	1	1	0	0	0	0	0	0	0	0	1
##	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	[,58]	[,59]	[,60]	[,61]
## [1,]	0	0	1	0	0	0	1	1	1	0	0	0
## [2,]	0	0	0	0	0	0	0	0	0	0	0	0
## [3,]	0	0	1	0	1	1	0	0	1	0	0	0
## [4,]	0	0	1	0	1	0	0	0	0	0	1	1
## [5,]	1	1	1	0	1	0	1	0	0	1	0	0
## [6,]	1	1	0	0	1	0	0	0	1	0	0	0
## [7,]	0	0	0	0	0	0	0	0	0	0	0	1
## [8,]	0	0	0	0	0	0	0	1	0	0	1	0
## [9,]	0	0	0	0	0	0	0	1	0	0	0	0
## [10,]	0	0	0	0	0	0	0	0	0	0	0	0
## [11,]	0	0	1	0	1	0	1	1	1	1	1	1
## [12,]	0	0	1	0	1	0	1	1	1	0	0	0
## [13,]	0	0	1	0	1	1	1	1	0	0	0	0
## [14,]	0	0	0	0	0	0	0	0	0	0	0	0
## [15,]	0	0	0	0	1	0	1	0	0	0	0	0
## [16,]	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
## [18,]	0	0	0	0	0	0	0	0	0	0	0	0
## [19,]	0	0	0	1	0	0	0	0	0	0	1	0
## [20,]	0	0	0	0	0	0	0	0	0	0	0	0
## [21,]	0	0	0	0	0	0	0	0	0	0	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	1	0	0	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	0	0	0	0	1	0	0	0	0
## [28,]	1	0	0	0	0	0	0	0	0	0	0	0
## [29,]	0	0	0	0	0	0	0	0	0	0	0	0
## [30,]	0	0	0	0	0	0	0	0	0	1	0	0
## [31,]	1	0	0	0	0	0	0	0	0	0	0	0
## [32,]	1	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	0	0	0
## [35,]	0	0	0	0	0	0	0	0	0	0	1	0
## [36,]	0	0	0	0	0	0	0	0	0	0	0	0
## [37,]	1	0	0	0	0	0	0	0	0	0	0	0
## [38,]	0	0	0	0	0	0	0	0	0	0	0	0
## [39,]	0	0	1	0	0	1	1	1	0	0	0	0
## [40,]	0	0	0	0	0	0	0	0	0	0	0	0
## [41,]	1	0	1	0	0	0	0	1	0	0	0	0
## [42,]	1	0	1	0	0	0	0	0	0	0	0	0



## [43,]	0	0	0	0	0	1	0	0	0	0	0	0
## [44,]	0	0	0	0	0	0	0	0	0	0	0	0
## [45,]	0	0	0	0	0	0	0	0	0	0	0	0
## [46,]	0	0	0	0	0	0	0	0	0	0	1	0
## [47,]	0	0	0	0	0	0	0	0	0	0	0	0
## [48,]	0	0	0	0	0	0	0	0	0	0	0	0
## [49,]	0	0	1	0	0	0	0	0	0	0	0	0
## [50,]	0	0	0	0	0	0	0	0	0	0	0	0
## [51,]	1	0	1	0	1	0	1	1	1	1	1	0
## [52,]	0	0	0	0	0	0	0	0	0	0	0	0
## [53,]	0	0	0	0	0	0	0	0	0	0	0	0
## [54,]	0	0	1	0	0	0	1	0	1	0	0	0
## [55,]	0	0	1	0	1	0	1	1	0	0	0	0
## [56,]	0	0	1	0	1	1	0	1	0	0	0	0
## [57,]	0	0	1	0	0	1	1	0	0	0	0	0
## [58,]	0	1	0	0	1	0	0	0	0	0	0	0
## [59,]	0	1	0	0	0	0	0	0	1	0	0	0
## [60,]	0	0	0	0	0	0	0	0	0	0	0	1
## [61,]	0	0	0	0	0	0	0	0	0	0	1	0
## [62,]	0	0	0	0	0	0	1	1	0	0	1	0
## [63,]	1	0	0	0	0	0	0	0	0	0	0	0
## [64,]	0	0	0	1	0	0	0	0	0	0	0	0
## [65,]	0	0	1	0	1	1	1	1	1	0	0	0
## [66,]	1	0	1	0	1	1	1	1	0	0	0	0
## [67,]	0	0	1	0	1	1	1	1	0	0	0	0
## [68,]	0	0	0	0	1	0	0	0	0	0	0	0
## [69,]	0	0	0	0	1	0	0	0	0	0	0	0
## [70,]	0	0	0	0	0	0	0	0	0	0	0	0
## [71,]	0	0	1	0	0	1	1	1	0	0	0	0
##	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]	[,70]	[,71]		
## [1,]	0	0	1	1	0	0	0	0	0	0		
## [2,]	0	0	0	0	0	0	0	0	0	0		
## [3,]	0	0	1	1	0	0	0	0	0	0		
## [4,]	1	0	1	0	0	0	0	0	0	0		
## [5,]	0	0	0	1	0	0	0	0	0	0		
## [6,]	0	0	0	0	0	0	0	0	0	0		
## [7,]	0	0	1	0	0	0	0	0	0	0		
## [8,]	0	0	1	0	0	0	0	0	0	0		
## [9,]	0	0	1	1	0	0	0	0	0	0		
## [10,]	0	0	0	0	0	0	0	0	0	0		
## [11,]	1	0	0	1	1	0	0	1	1	1		
## [12,]	1	0	1	0	0	0	1	0	0	0		
## [13,]	0	0	1	1	0	1	1	1	1	1		
## [14,]	0	0	0	0	0	0	1	1	1	1		
## [15,]	0	0	0	1	0	0	0	0	1	1		
## [16,]	0	0	0	0	1	1	1	0	1	1		
## [17,]	0	0	1	0	1	1	1	1	0	1		
## [18,]	0	0	1	0	0	0	0	0	0	0		
## [19,]	0	0	1	0	0	0	0	0	1	0		
## [20,]	0	0	0	0	0	0	0	0	0	0		
## [21,]	0	0	0	0	0	0	0	0	0	0		
## [22,]	0	0	0	0	0	0	0	0	0	0		
## [23,]	0	0	0	0	0	0	0	0	0	0		
## [24,]	0	0	1	0	0	0	0	0	0	0		

```

## [25,] 0 0 0 0 0 0 0 0 0 0
## [26,] 0 0 0 0 0 0 0 0 0 0
## [27,] 0 0 0 0 0 0 0 0 0 0
## [28,] 0 1 0 0 0 0 0 0 1 0
## [29,] 0 0 0 0 0 0 0 0 0 0
## [30,] 0 0 0 0 0 0 0 0 0 0
## [31,] 0 0 0 0 0 0 0 0 0 0
## [32,] 0 1 0 0 0 0 0 0 0 0
## [33,] 0 0 0 0 0 0 0 0 0 0
## [34,] 0 0 0 0 0 0 0 0 0 0
## [35,] 0 0 0 0 0 0 0 0 0 0
## [36,] 0 0 0 0 0 0 0 0 0 0
## [37,] 0 0 0 0 0 0 0 0 0 0
## [38,] 0 0 0 0 0 0 0 0 0 0
## [39,] 0 0 0 0 0 0 0 0 0 0
## [40,] 0 0 0 0 0 0 0 0 0 0
## [41,] 0 0 0 0 0 0 0 0 0 0
## [42,] 0 0 0 0 0 0 0 0 0 0
## [43,] 0 0 0 0 0 0 0 0 0 0
## [44,] 0 0 0 0 0 0 0 0 0 0
## [45,] 0 0 0 0 0 0 0 0 0 0
## [46,] 0 0 0 0 0 0 0 0 0 0
## [47,] 0 0 0 0 0 0 0 0 0 0
## [48,] 0 0 1 0 0 0 0 0 0 0
## [49,] 0 0 0 0 0 0 0 0 0 0
## [50,] 0 0 0 0 0 0 0 0 0 0
## [51,] 0 0 0 0 0 0 0 0 0 0
## [52,] 0 0 0 0 0 0 0 0 0 0
## [53,] 0 0 1 0 0 0 0 0 0 0
## [54,] 0 0 0 1 0 0 0 0 0 0
## [55,] 0 0 0 0 0 0 0 0 0 0
## [56,] 0 0 1 1 0 0 0 0 0 0
## [57,] 1 0 0 0 0 0 0 0 0 0
## [58,] 0 0 0 0 0 0 0 0 0 0
## [59,] 0 0 0 0 0 0 0 0 0 0
## [60,] 0 0 0 0 0 0 0 0 0 0
## [61,] 0 0 1 0 0 0 0 0 0 0
## [62,] 0 0 1 1 0 0 0 0 0 0
## [63,] 0 0 0 0 0 0 0 0 0 0
## [64,] 0 0 0 0 0 0 0 0 0 0
## [65,] 1 0 1 0 0 0 1 0 0 0
## [66,] 1 0 1 1 0 1 1 1 1 1
## [67,] 0 0 0 0 1 0 1 1 1 0
## [68,] 0 0 0 1 0 0 0 0 0 0
## [69,] 1 0 1 1 1 1 1 0 1 1
## [70,] 0 0 0 0 0 0 0 0 0 0
## [71,] 0 0 0 1 0 1 1 1 0 0

```

## Load parameters

```
parameters<-generate_default_parameters()
```

## Update parameters

```
new.parameters<-list(encoder_base="GATConv",
                     K=3L,
                     epoch_cluster=150L,
                     n_layers=1L,
                     use_mincut=T,
                     ae_type="ARGA",
                     custom_dataset="none",
                     learning_rate=1e-2,
                     lambda_kl=0.,
                     lambda_adv=1e-3,
                     lambda_cluster=12.,
                     lambda_recon=3.,
                     model_save_loc="cluster.model.pkl")
parameters<-update.parameters(parameters,new.parameters)
```

## Fit cluster, embedding, classification, generation, or link prediction model

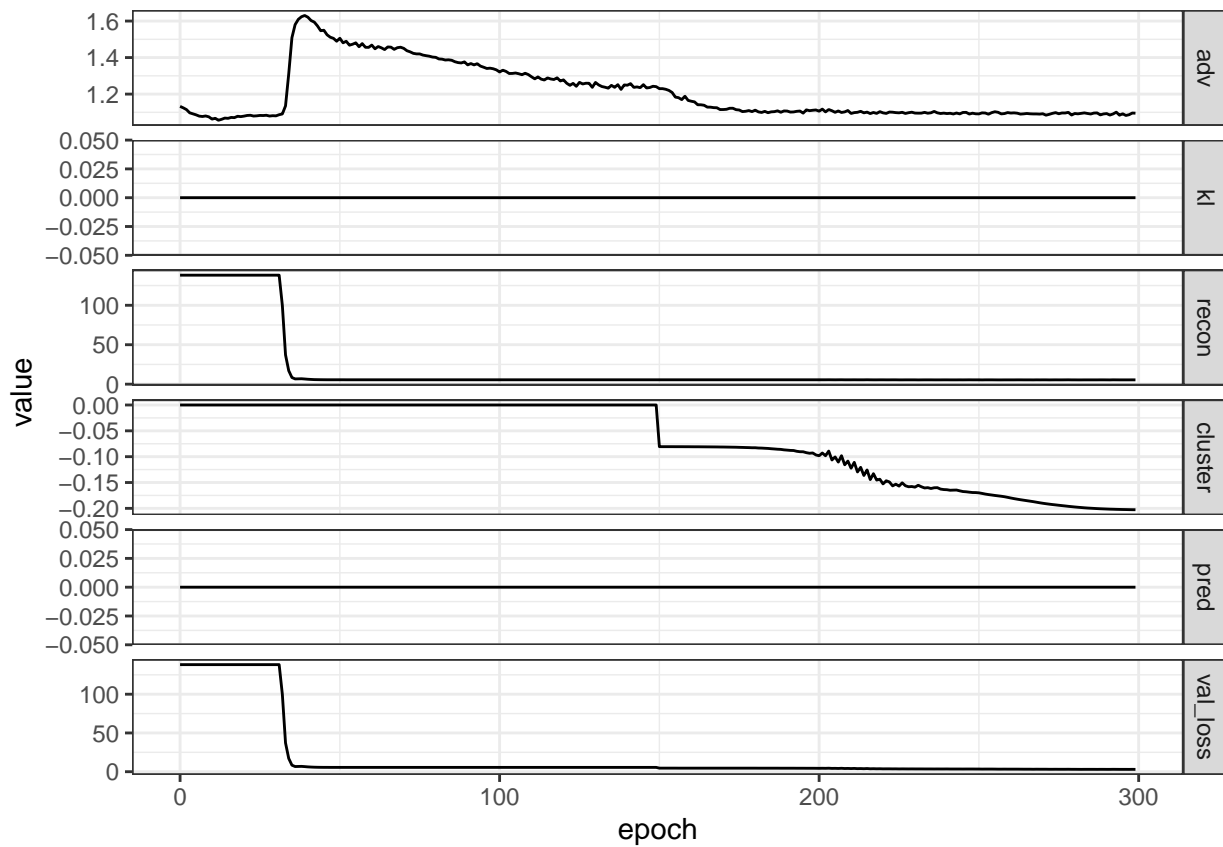
```
cluster.model<-cluster.model.fit(parameters, net.list,verbose=F)
```

## Plot Objective Convergence

```
plot.diagnostics(cluster.model)
```

```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```

```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```



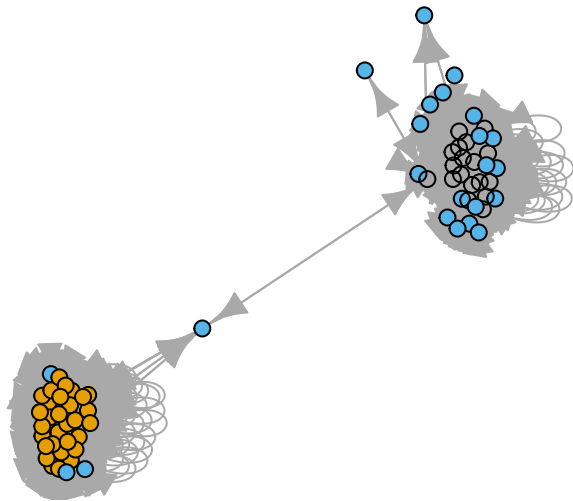
## Summarize Results

```
results<-extract.results(cluster.model)
graphs<-extract.graphs(cluster.model)
cl<-extract.clusters(cluster.model)
summary(cluster.model,additional.info=F)
```

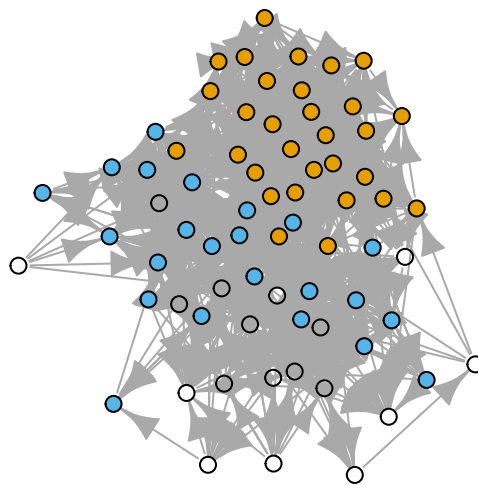
## Visualize Results

```
plot(cluster.model)
```

**Predicted Network**



**Original Network**

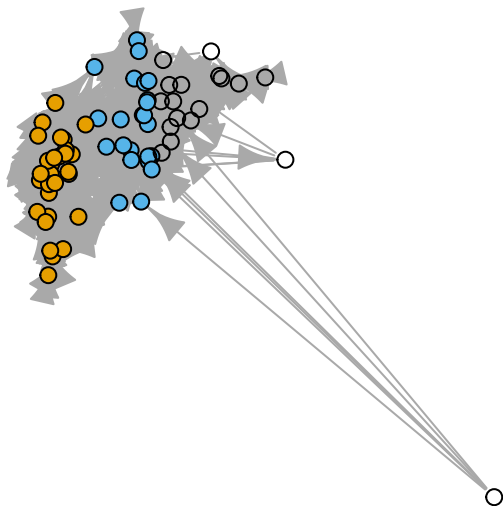


```
# Select predicted and save image
tiff(file = "test.tiff", width = 2000, height = 2000, units = "px", res = 600)
plot(cluster.model, plots=c(2))
dev.off()
```

```
## pdf
## 2
```

```
# plot latent positions
plot(cluster.model, latent=T, plots=c(2))
```

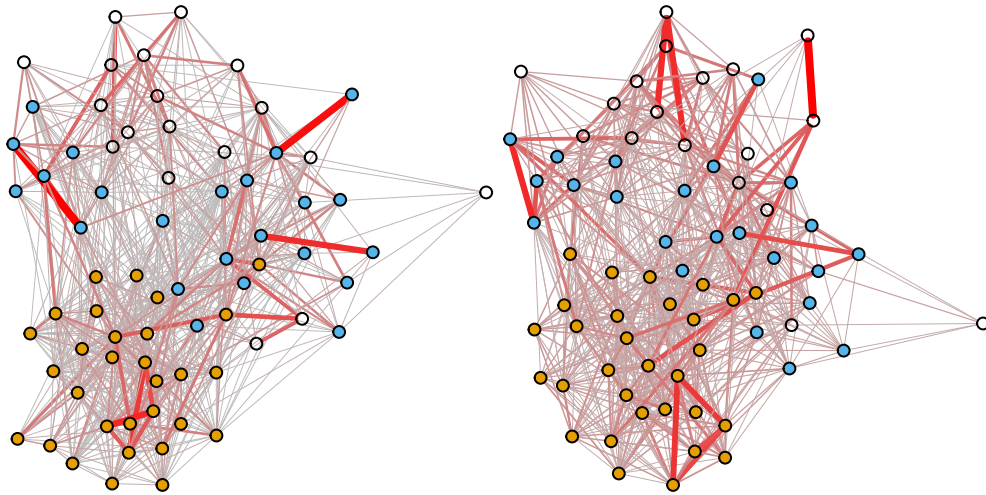
**Original Network**



## Interpret

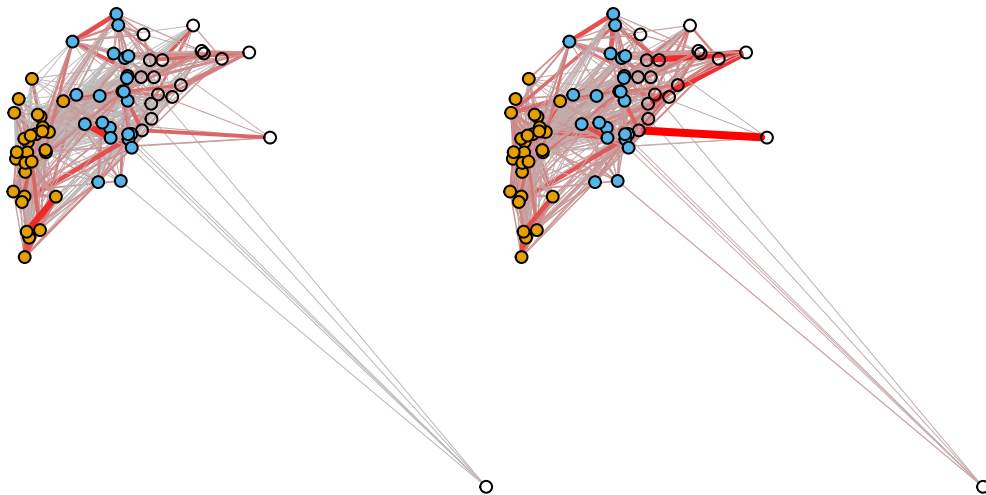
### Attention between Two Individuals

```
attention.matrices<-visualize.attention(cluster.model,weight.scaling.factor = 4)
```



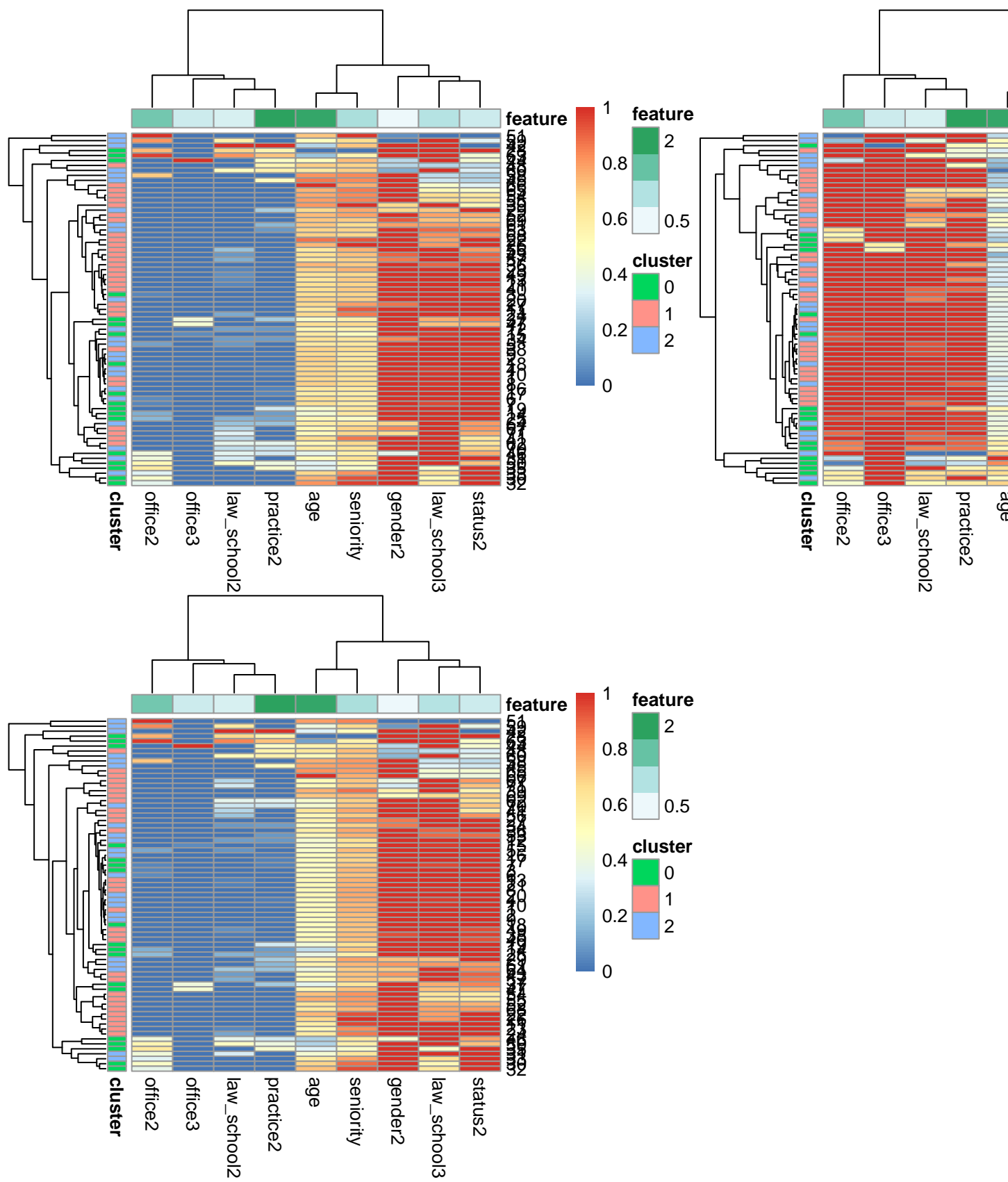
*# With latent embeddings*

```
attention.matrices<-visualize.attention(cluster.model,weight.scaling.factor = 4, latent=T)
```



### Important Samples and Features per Cluster Assignment

```
attributions<-interpret.predictors(cluster.model)
```

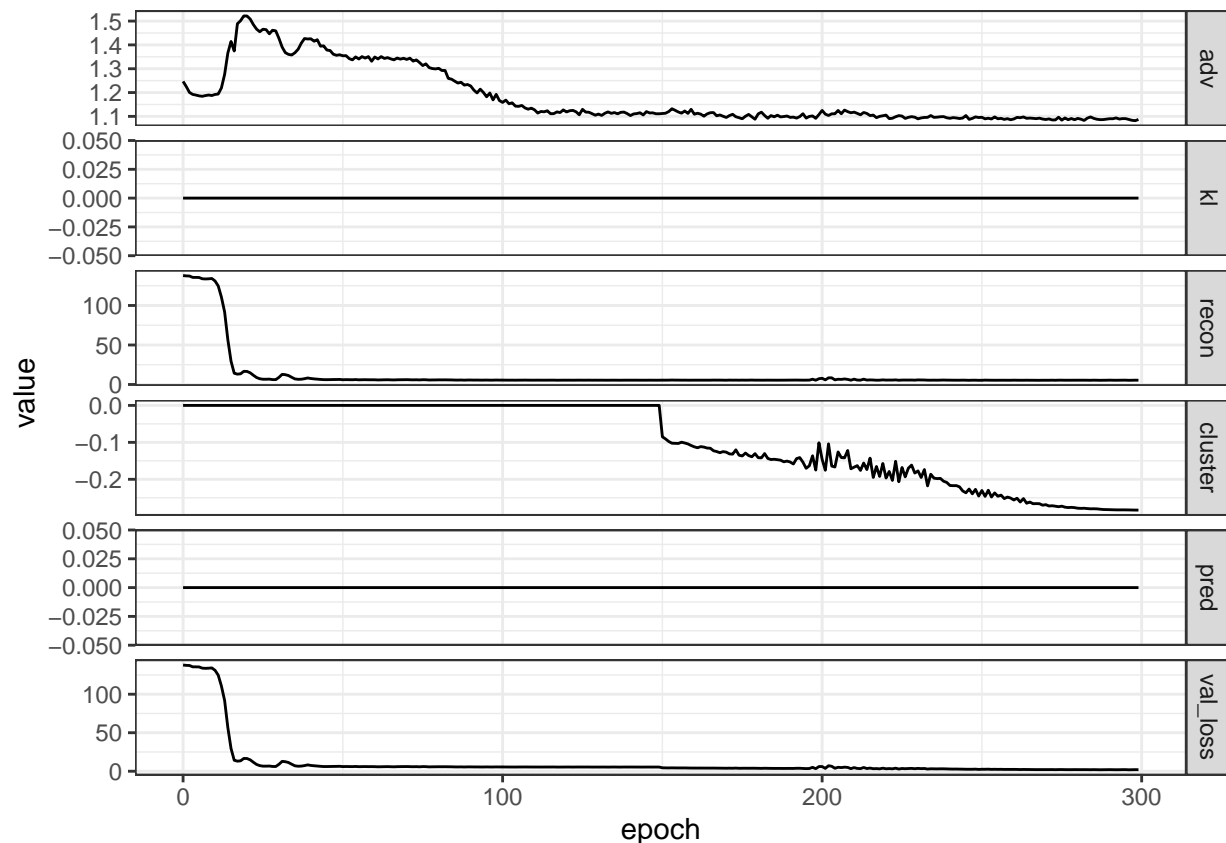


## Extract Motifs in Data

```
parameters.2<-update.parameters(parameters,list(encoder_base="GCNConv",model_save_loc="cluster.model.2.1"))
cluster.model.2<-cluster.model.fit(parameters.2, net.list)
plot.diagnostics(cluster.model.2)
```

```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```

```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```



```
summary(cluster.model.2)
```

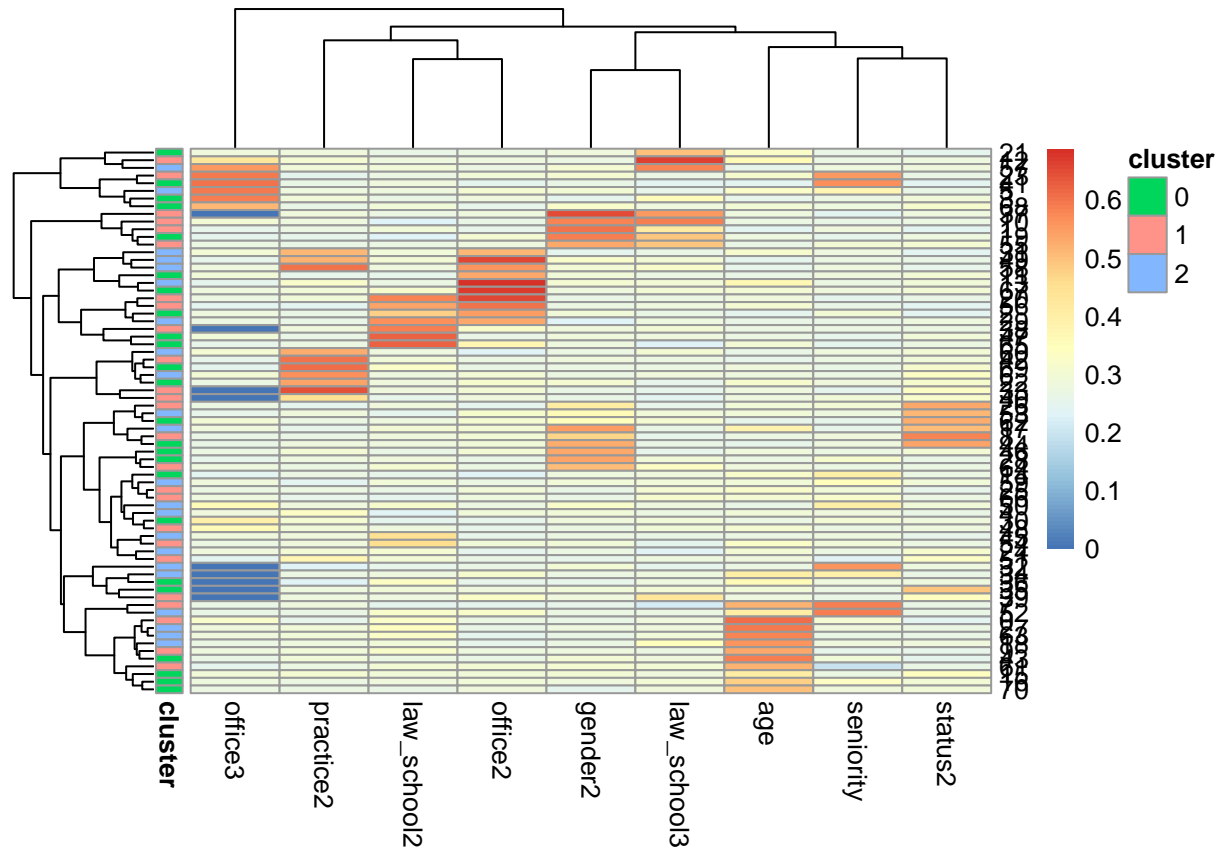
Motif Visualization:

```
motif.graphs<-extract.motifs(cluster.model.2)
```

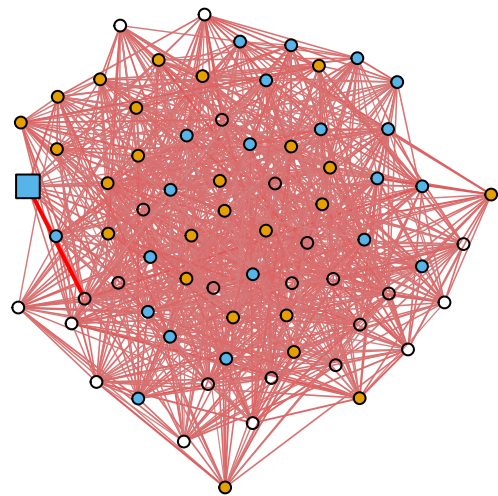


```
# extract specific motifs, with some perturbation of edges
motif.graphs.2<-extract.motifs(cluster.model.2,node_idx=c(4L,7L,23L,60L,70L))
motif.graphs.2<-extract.motifs(cluster.model.2,node_idx=c(4L,7L,23L,60L,70L),perturb="erdos",erdos_flip

cl<-extract.clusters(cluster.model.2)
predictor.importance<-build.importance.matrix(motif.graphs,cl,extract.features(cluster.model.2))
```



```
vis.motif(motif.graphs.2,60L,cl,threshold=0.1, weight.scaling.factor = 2., important.node.size=10)
```



```
##      [,1]      [,2]      [,3]      [,4]      [,5]      [,6]      [,7]
## [1,] 0.0000000 0.0000000 0.3044716 0.0000000 0.0000000 0.0000000 0.0000000
```

```

## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2371810 0.0000000 0.0000000
## [3,] 0.3044716 0.0000000 0.0000000 0.0000000 0.2858690 0.0000000 0.2844602
## [4,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2652204 0.2795513 0.0000000
## [5,] 0.0000000 0.2371810 0.2858690 0.2652204 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.2795513 0.0000000 0.0000000 0.2561939
## [7,] 0.0000000 0.0000000 0.2844602 0.0000000 0.0000000 0.2561939 0.0000000
## [8,] 0.0000000 0.2804053 0.0000000 0.3324346 0.0000000 0.0000000 0.2299330
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2814506 0.0000000 0.2315089
## [10,] 0.2858720 0.3212231 0.2512147 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000 0.0000000 0.0000000 0.2975078 0.0000000 0.2833509 0.2221200
## [12,] 0.0000000 0.0000000 0.2399597 0.2436477 0.0000000 0.0000000 0.2625682
## [13,] 0.2711430 0.0000000 0.0000000 0.0000000 0.0000000 0.2102199 0.0000000
## [14,] 0.3145194 0.0000000 0.2636935 0.0000000 0.0000000 0.0000000 0.3136631
## [15,] 0.0000000 0.2609239 0.2588832 0.0000000 0.0000000 0.0000000 0.0000000
## [16,] 0.2953402 0.2944444 0.0000000 0.0000000 0.0000000 0.0000000 0.2411315
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2466652 0.2743966
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.2600949 0.2553947 0.0000000 0.2725610 0.0000000 0.0000000
## [20,] 0.0000000 0.2594033 0.2972266 0.0000000 0.2603875 0.0000000 0.0000000
## [21,] 0.0000000 0.0000000 0.0000000 0.2505247 0.3320946 0.0000000 0.2733366
## [22,] 0.3004314 0.0000000 0.0000000 0.2693794 0.2929449 0.2946989 0.0000000
## [23,] 0.2875220 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2244985
## [24,] 0.2919017 0.0000000 0.0000000 0.0000000 0.2557818 0.0000000 0.0000000
## [25,] 0.2753204 0.2453235 0.0000000 0.0000000 0.0000000 0.2525691 0.0000000
## [26,] 0.0000000 0.0000000 0.0000000 0.2442041 0.0000000 0.0000000 0.0000000
## [27,] 0.0000000 0.2521965 0.2762122 0.3137588 0.2979540 0.2845896 0.0000000
## [28,] 0.0000000 0.0000000 0.0000000 0.3098611 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.3360296 0.0000000 0.0000000 0.0000000 0.0000000 0.2960263
## [30,] 0.2860953 0.0000000 0.0000000 0.2791517 0.2748946 0.0000000 0.0000000
## [31,] 0.2460023 0.0000000 0.2205934 0.2711124 0.3163708 0.0000000 0.2814923
## [32,] 0.0000000 0.0000000 0.2587765 0.0000000 0.0000000 0.2564016 0.2859659
## [33,] 0.2551336 0.0000000 0.2603081 0.0000000 0.0000000 0.2553714 0.2504775
## [34,] 0.0000000 0.2762147 0.0000000 0.0000000 0.2970642 0.2648284 0.2820061
## [35,] 0.0000000 0.3102787 0.0000000 0.0000000 0.3115461 0.2538184 0.0000000
## [36,] 0.0000000 0.0000000 0.0000000 0.2796089 0.3156271 0.0000000 0.0000000
## [37,] 0.2561900 0.0000000 0.2617142 0.0000000 0.2179523 0.0000000 0.0000000
## [38,] 0.3045368 0.0000000 0.0000000 0.0000000 0.3508043 0.3014738 0.0000000
## [39,] 0.0000000 0.0000000 0.0000000 0.2663183 0.0000000 0.2553437 0.0000000
## [40,] 0.0000000 0.2620778 0.0000000 0.0000000 0.0000000 0.3131368 0.0000000
## [41,] 0.2926149 0.2552393 0.0000000 0.0000000 0.0000000 0.2715774 0.0000000
## [42,] 0.2700105 0.3077809 0.2775341 0.2586062 0.2859533 0.0000000 0.0000000
## [43,] 0.0000000 0.0000000 0.0000000 0.2405491 0.2916675 0.2760768 0.0000000
## [44,] 0.0000000 0.0000000 0.2544223 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [46,] 0.0000000 0.0000000 0.3050310 0.0000000 0.3205697 0.2459365 0.0000000
## [47,] 0.0000000 0.0000000 0.3273788 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.2743141 0.0000000 0.2517167 0.2958018 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0.0000000 0.2860114 0.2641028 0.0000000 0.0000000
## [50,] 0.2624831 0.0000000 0.2431177 0.0000000 0.0000000 0.0000000 0.3132724
## [51,] 0.0000000 0.3013831 0.2018127 0.3587629 0.0000000 0.0000000 0.2662739
## [52,] 0.2549942 0.2507523 0.0000000 0.2477807 0.0000000 0.0000000 0.2902527
## [53,] 0.2746245 0.3153042 0.0000000 0.2735255 0.0000000 0.2442211 0.0000000
## [54,] 0.0000000 0.2919807 0.0000000 0.0000000 0.0000000 0.0000000 0.2745586
## [55,] 0.2777849 0.2718208 0.0000000 0.0000000 0.0000000 0.3072113 0.0000000

```

```

## [56,] 0.0000000 0.2583370 0.0000000 0.0000000 0.3272323 0.2451902 0.0000000
## [57,] 0.2784706 0.2151990 0.0000000 0.0000000 0.2747290 0.0000000 0.2996706
## [58,] 0.2562623 0.0000000 0.2602529 0.2371847 0.0000000 0.2549130 0.0000000
## [59,] 0.0000000 0.2377999 0.2959993 0.0000000 0.0000000 0.0000000 0.2984088
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2348831 0.2666213
## [61,] 0.2790870 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2999371 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.3160976 0.0000000 0.0000000 0.0000000
## [64,] 0.3476980 0.0000000 0.2834089 0.0000000 0.0000000 0.0000000 0.2488203
## [65,] 0.2593768 0.2934100 0.2990740 0.0000000 0.2595044 0.2747194 0.2768123
## [66,] 0.0000000 0.0000000 0.2807568 0.0000000 0.2807947 0.0000000 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.2829525 0.3099010 0.0000000 0.0000000
## [68,] 0.3415852 0.0000000 0.0000000 0.0000000 0.0000000 0.2468496 0.0000000
## [69,] 0.0000000 0.0000000 0.2717136 0.0000000 0.2725061 0.0000000 0.2599369
## [70,] 0.2859371 0.2831658 0.0000000 0.0000000 0.3058501 0.2478256 0.0000000
## [71,] 0.2713161 0.0000000 0.2416060 0.0000000 0.0000000 0.0000000 0.0000000
##      [,8]      [,9]      [,10]      [,11]      [,12]      [,13]      [,14]
## [1,] 0.0000000 0.0000000 0.2858720 0.0000000 0.0000000 0.2711430 0.3145194
## [2,] 0.2804053 0.0000000 0.3212231 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.2512147 0.0000000 0.2399597 0.0000000 0.2636935
## [4,] 0.3324346 0.0000000 0.0000000 0.2975078 0.2436477 0.0000000 0.0000000
## [5,] 0.0000000 0.2814506 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.2833509 0.0000000 0.2102199 0.0000000
## [7,] 0.2299330 0.2315089 0.0000000 0.2221200 0.2625682 0.0000000 0.3136631
## [8,] 0.0000000 0.2909079 0.2711653 0.0000000 0.0000000 0.2298252 0.2709461
## [9,] 0.2909079 0.0000000 0.2151431 0.2814697 0.0000000 0.0000000 0.0000000
## [10,] 0.2711653 0.2151431 0.0000000 0.2802484 0.0000000 0.2729762 0.0000000
## [11,] 0.0000000 0.2814697 0.2802484 0.0000000 0.3066565 0.0000000 0.0000000
## [12,] 0.0000000 0.0000000 0.0000000 0.3066565 0.0000000 0.0000000 0.0000000
## [13,] 0.2298252 0.0000000 0.2729762 0.0000000 0.0000000 0.0000000 0.0000000
## [14,] 0.2709461 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.2640007 0.0000000 0.2396178 0.0000000 0.0000000 0.0000000 0.0000000
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2674841 0.2799148 0.2428899
## [17,] 0.0000000 0.2256326 0.0000000 0.3103525 0.0000000 0.0000000 0.0000000
## [18,] 0.2627531 0.2372587 0.0000000 0.0000000 0.0000000 0.2287599 0.0000000
## [19,] 0.2416660 0.0000000 0.0000000 0.2156156 0.0000000 0.0000000 0.0000000
## [20,] 0.0000000 0.2847238 0.0000000 0.0000000 0.0000000 0.2507063 0.2882465
## [21,] 0.2631813 0.2649661 0.0000000 0.0000000 0.2393451 0.0000000 0.2801036
## [22,] 0.2454090 0.0000000 0.3144754 0.0000000 0.2524455 0.3282616 0.2908788
## [23,] 0.0000000 0.0000000 0.2835066 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.3291535 0.0000000 0.0000000 0.3136184 0.0000000 0.2565437 0.0000000
## [25,] 0.0000000 0.2462041 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [26,] 0.2088311 0.0000000 0.0000000 0.3137594 0.2906946 0.2585767 0.0000000
## [27,] 0.0000000 0.3367508 0.2726239 0.0000000 0.2812857 0.0000000 0.0000000
## [28,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2196105 0.2123543 0.2445266
## [29,] 0.0000000 0.3306583 0.0000000 0.2686128 0.2697974 0.0000000 0.0000000
## [30,] 0.0000000 0.0000000 0.2660731 0.2616804 0.3155425 0.2867234 0.0000000
## [31,] 0.3012892 0.2819239 0.0000000 0.0000000 0.0000000 0.0000000 0.2849848
## [32,] 0.2563149 0.0000000 0.0000000 0.2544958 0.0000000 0.0000000 0.0000000
## [33,] 0.2149749 0.0000000 0.0000000 0.0000000 0.2938762 0.2951695 0.0000000
## [34,] 0.3067302 0.0000000 0.0000000 0.0000000 0.0000000 0.2114754 0.0000000
## [35,] 0.0000000 0.3253561 0.0000000 0.0000000 0.0000000 0.2844440 0.0000000
## [36,] 0.2599931 0.0000000 0.0000000 0.0000000 0.0000000 0.2627894 0.3201164
## [37,] 0.0000000 0.0000000 0.2671560 0.0000000 0.0000000 0.0000000 0.0000000

```

```

## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.0000000 0.0000000 0.2366333 0.0000000 0.2836028 0.2660235 0.0000000 0.0000000
## [40,] 0.0000000 0.0000000 0.0000000 0.2695838 0.0000000 0.0000000 0.0000000 0.0000000
## [41,] 0.0000000 0.2734658 0.2933127 0.0000000 0.2839612 0.0000000 0.0000000 0.0000000
## [42,] 0.2463510 0.2147825 0.0000000 0.2818552 0.2857166 0.2605745 0.0000000 0.0000000
## [43,] 0.0000000 0.2822848 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.2796939 0.0000000 0.2924075 0.0000000 0.2730854 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.2651192 0.0000000 0.2882618 0.2681576 0.0000000
## [46,] 0.2937551 0.2798141 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2455847
## [47,] 0.2883156 0.0000000 0.0000000 0.0000000 0.0000000 0.2627740 0.2951860 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.2464463 0.2948607 0.3299094 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2405655 0.0000000 0.2291355 0.0000000
## [50,] 0.2724683 0.2730634 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.2854890 0.2723940 0.2754221 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [52,] 0.0000000 0.0000000 0.2770547 0.2585520 0.0000000 0.2549340 0.0000000 0.0000000
## [53,] 0.0000000 0.2507665 0.0000000 0.3009685 0.3092498 0.2825170 0.2949204 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.2567680 0.0000000 0.2713543 0.3067451 0.0000000
## [55,] 0.0000000 0.0000000 0.3471570 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [56,] 0.0000000 0.0000000 0.2726443 0.0000000 0.2602405 0.0000000 0.2942847 0.0000000
## [57,] 0.0000000 0.0000000 0.0000000 0.2542759 0.0000000 0.2478981 0.0000000 0.0000000
## [58,] 0.3257316 0.2881273 0.0000000 0.0000000 0.0000000 0.0000000 0.2510950 0.0000000
## [59,] 0.0000000 0.2698996 0.2862886 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.3260382 0.2889037 0.0000000 0.2573621 0.2552048 0.0000000 0.0000000
## [61,] 0.0000000 0.2796873 0.2886164 0.0000000 0.0000000 0.0000000 0.2761069 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2806838 0.0000000 0.0000000
## [63,] 0.2524725 0.0000000 0.2812663 0.2278610 0.2645617 0.1998232 0.2932464 0.0000000
## [64,] 0.0000000 0.2886589 0.0000000 0.3100092 0.2424214 0.2432392 0.0000000 0.0000000
## [65,] 0.0000000 0.3110956 0.0000000 0.0000000 0.2822617 0.0000000 0.0000000 0.0000000
## [66,] 0.2522671 0.0000000 0.0000000 0.2496033 0.2254528 0.2864338 0.0000000 0.0000000
## [67,] 0.2655086 0.0000000 0.2517121 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.2951583 0.0000000 0.0000000 0.0000000 0.0000000 0.2817679 0.3382615 0.0000000
## [69,] 0.2871906 0.0000000 0.0000000 0.2616788 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.3099728 0.3303972 0.0000000 0.0000000 0.0000000 0.0000000 0.2911045 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2787178 0.2938529 0.0000000 0.0000000
##      [,15]      [,16]      [,17]      [,18]      [,19]      [,20]      [,21]
## [1,] 0.0000000 0.2953402 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.2609239 0.2944444 0.0000000 0.0000000 0.2600949 0.2594033 0.0000000
## [3,] 0.2588832 0.0000000 0.0000000 0.0000000 0.2553947 0.2972266 0.0000000
## [4,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2505247
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2725610 0.2603875 0.3320946
## [6,] 0.0000000 0.0000000 0.2466652 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.2411315 0.2743966 0.0000000 0.0000000 0.0000000 0.2733366
## [8,] 0.2640007 0.0000000 0.0000000 0.2627531 0.2416660 0.0000000 0.2631813
## [9,] 0.0000000 0.0000000 0.2256326 0.2372587 0.0000000 0.2847238 0.2649661
## [10,] 0.2396178 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000 0.0000000 0.3103525 0.0000000 0.2156156 0.0000000 0.0000000
## [12,] 0.0000000 0.2674841 0.0000000 0.0000000 0.0000000 0.0000000 0.2393451
## [13,] 0.0000000 0.2799148 0.0000000 0.2287599 0.0000000 0.2507063 0.0000000
## [14,] 0.0000000 0.2428899 0.0000000 0.0000000 0.0000000 0.2882465 0.2801036
## [15,] 0.0000000 0.2728444 0.2986820 0.0000000 0.0000000 0.0000000 0.0000000
## [16,] 0.2728444 0.0000000 0.2582843 0.2547524 0.2789950 0.0000000 0.0000000
## [17,] 0.2986820 0.2582843 0.0000000 0.0000000 0.0000000 0.0000000 0.2604093
## [18,] 0.0000000 0.2547524 0.0000000 0.0000000 0.2335603 0.0000000 0.0000000
## [19,] 0.0000000 0.2789950 0.0000000 0.2335603 0.0000000 0.2831921 0.0000000

```

```

## [20,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2831921 0.0000000 0.0000000
## [21,] 0.0000000 0.0000000 0.2604093 0.0000000 0.0000000 0.0000000 0.0000000
## [22,] 0.0000000 0.0000000 0.0000000 0.3169528 0.0000000 0.2906542 0.2916943
## [23,] 0.0000000 0.2588764 0.0000000 0.2386610 0.0000000 0.0000000 0.0000000
## [24,] 0.2832548 0.0000000 0.0000000 0.2443465 0.2412509 0.3018545 0.2571701
## [25,] 0.0000000 0.2929172 0.0000000 0.0000000 0.0000000 0.0000000 0.2323727
## [26,] 0.2571353 0.0000000 0.0000000 0.0000000 0.2753866 0.0000000 0.0000000
## [27,] 0.0000000 0.3019160 0.0000000 0.0000000 0.2262925 0.0000000 0.0000000
## [28,] 0.2331434 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.2479780 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.0000000 0.3194760 0.2878834 0.2624695 0.3111167 0.3030611 0.0000000
## [31,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2442013 0.3052652 0.0000000
## [32,] 0.0000000 0.2846044 0.0000000 0.0000000 0.2866409 0.0000000 0.0000000
## [33,] 0.0000000 0.0000000 0.0000000 0.2691587 0.0000000 0.0000000 0.2802189
## [34,] 0.2814097 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3042506
## [35,] 0.3136269 0.0000000 0.3183202 0.2426416 0.0000000 0.2628886 0.2522077
## [36,] 0.2469051 0.0000000 0.2708230 0.0000000 0.2289420 0.2600842 0.2682280
## [37,] 0.0000000 0.3343297 0.0000000 0.2953355 0.2518443 0.0000000 0.0000000
## [38,] 0.2854246 0.0000000 0.3426633 0.3327693 0.0000000 0.0000000 0.0000000
## [39,] 0.0000000 0.2571503 0.0000000 0.2783696 0.2673173 0.3206645 0.2732569
## [40,] 0.2100799 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2769238
## [41,] 0.0000000 0.0000000 0.2919663 0.0000000 0.2801105 0.0000000 0.0000000
## [42,] 0.2970545 0.3133608 0.0000000 0.2252939 0.3071180 0.0000000 0.0000000
## [43,] 0.2617007 0.0000000 0.0000000 0.0000000 0.2708674 0.2357495 0.0000000
## [44,] 0.0000000 0.3093542 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.2611769 0.0000000 0.3091363 0.2782994 0.0000000
## [46,] 0.0000000 0.0000000 0.2786430 0.3123851 0.2674540 0.2975676 0.0000000
## [47,] 0.2463145 0.2279271 0.0000000 0.2035296 0.2344260 0.0000000 0.0000000
## [48,] 0.2507815 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.2667839 0.0000000 0.0000000 0.0000000 0.2829630 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.3020926 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.2806690 0.0000000 0.0000000 0.2906515 0.0000000 0.0000000 0.0000000
## [52,] 0.2871885 0.0000000 0.2942652 0.0000000 0.0000000 0.2532732 0.0000000
## [53,] 0.3031178 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.0000000 0.3387585 0.0000000 0.2823961 0.0000000 0.3185225
## [55,] 0.0000000 0.2615465 0.3130429 0.0000000 0.2140663 0.0000000 0.0000000
## [56,] 0.0000000 0.3440292 0.0000000 0.0000000 0.0000000 0.2815700 0.0000000
## [57,] 0.2373927 0.0000000 0.0000000 0.0000000 0.2439684 0.0000000 0.0000000
## [58,] 0.2211397 0.0000000 0.2567823 0.2463875 0.3336445 0.0000000 0.0000000
## [59,] 0.2919755 0.0000000 0.0000000 0.2651770 0.2843630 0.2494492 0.0000000
## [60,] 0.0000000 0.2722318 0.0000000 0.0000000 0.0000000 0.3249014 0.2652199
## [61,] 0.0000000 0.3190572 0.2653444 0.0000000 0.2319907 0.2776049 0.2711199
## [62,] 0.0000000 0.3072154 0.0000000 0.0000000 0.2917696 0.3684486 0.0000000
## [63,] 0.2651075 0.0000000 0.0000000 0.0000000 0.2590931 0.2572279 0.0000000
## [64,] 0.2291862 0.0000000 0.0000000 0.2397074 0.3064367 0.0000000 0.3490857
## [65,] 0.0000000 0.0000000 0.3148428 0.3219599 0.0000000 0.0000000 0.0000000
## [66,] 0.0000000 0.0000000 0.0000000 0.2772231 0.0000000 0.0000000 0.0000000
## [67,] 0.0000000 0.2456296 0.0000000 0.0000000 0.0000000 0.2815006 0.0000000
## [68,] 0.0000000 0.3279598 0.3509136 0.0000000 0.0000000 0.0000000 0.2511631
## [69,] 0.0000000 0.2740864 0.0000000 0.3345793 0.2575803 0.3145574 0.0000000
## [70,] 0.2481658 0.2848617 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.2625664 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3778121
##      [,22]      [,23]      [,24]      [,25]      [,26]      [,27]      [,28]
## [1,] 0.3004314 0.2875220 0.2919017 0.2753204 0.0000000 0.0000000 0.0000000

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```

## [2,] 0.0000000 0.0000000 0.0000000 0.2453235 0.0000000 0.2521965 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2762122 0.0000000
## [4,] 0.2693794 0.0000000 0.0000000 0.0000000 0.2442041 0.3137588 0.3098611
## [5,] 0.2929449 0.0000000 0.2557818 0.0000000 0.0000000 0.2979540 0.0000000
## [6,] 0.2946989 0.0000000 0.0000000 0.2525691 0.0000000 0.2845896 0.0000000
## [7,] 0.0000000 0.2244985 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.2454090 0.0000000 0.3291535 0.0000000 0.2088311 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.2462041 0.0000000 0.3367508 0.0000000
## [10,] 0.3144754 0.2835066 0.0000000 0.0000000 0.0000000 0.2726239 0.0000000
## [11,] 0.0000000 0.0000000 0.3136184 0.0000000 0.3137594 0.0000000 0.0000000
## [12,] 0.2524455 0.0000000 0.0000000 0.0000000 0.2906946 0.2812857 0.2196105
## [13,] 0.3282616 0.0000000 0.2565437 0.0000000 0.2585767 0.0000000 0.2123543
## [14,] 0.2908788 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2445266
## [15,] 0.0000000 0.0000000 0.2832548 0.0000000 0.2571353 0.0000000 0.2331434
## [16,] 0.0000000 0.2588764 0.0000000 0.2929172 0.0000000 0.3019160 0.0000000
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [18,] 0.3169528 0.2386610 0.2443465 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.0000000 0.2412509 0.0000000 0.2753866 0.2262925 0.0000000
## [20,] 0.2906542 0.0000000 0.3018545 0.0000000 0.0000000 0.0000000 0.0000000
## [21,] 0.2916943 0.0000000 0.2571701 0.2323727 0.0000000 0.0000000 0.0000000
## [22,] 0.0000000 0.0000000 0.2650862 0.0000000 0.0000000 0.2814620 0.0000000
## [23,] 0.0000000 0.0000000 0.0000000 0.2310091 0.0000000 0.0000000 0.2805350
## [24,] 0.2650862 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [25,] 0.0000000 0.2310091 0.0000000 0.0000000 0.0000000 0.3094527 0.0000000
## [26,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [27,] 0.2814620 0.0000000 0.0000000 0.3094527 0.0000000 0.0000000 0.2798438
## [28,] 0.0000000 0.2805350 0.0000000 0.0000000 0.0000000 0.2798438 0.0000000
## [29,] 0.0000000 0.2792949 0.0000000 0.2244455 0.0000000 0.3323869 0.0000000
## [30,] 0.2510240 0.2734222 0.2991248 0.2339458 0.0000000 0.3005790 0.0000000
## [31,] 0.0000000 0.2992881 0.0000000 0.3298628 0.0000000 0.2811630 0.0000000
## [32,] 0.0000000 0.0000000 0.2381743 0.0000000 0.0000000 0.0000000 0.2907826
## [33,] 0.0000000 0.3132117 0.2593837 0.2884454 0.0000000 0.0000000 0.0000000
## [34,] 0.2570377 0.0000000 0.2881566 0.0000000 0.0000000 0.0000000 0.0000000
## [35,] 0.2818965 0.2399341 0.2616702 0.2566481 0.0000000 0.2748829 0.0000000
## [36,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3553600 0.0000000 0.2990587
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2839364 0.0000000 0.0000000
## [38,] 0.0000000 0.2614785 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.0000000 0.0000000 0.2941048 0.3248773 0.0000000 0.3291877 0.3235645
## [40,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2509227 0.2925813
## [41,] 0.2928907 0.2751026 0.0000000 0.0000000 0.2761402 0.2858098 0.0000000
## [42,] 0.3037330 0.0000000 0.2782925 0.0000000 0.0000000 0.0000000 0.3651734
## [43,] 0.0000000 0.0000000 0.2770052 0.0000000 0.0000000 0.2983419 0.3352278
## [44,] 0.3060051 0.2770538 0.0000000 0.2754850 0.2519484 0.3376116 0.0000000
## [45,] 0.0000000 0.0000000 0.3018976 0.2655889 0.0000000 0.0000000 0.3047468
## [46,] 0.3433104 0.3318272 0.0000000 0.2395906 0.2810385 0.2982783 0.2596117
## [47,] 0.2597578 0.0000000 0.3037920 0.0000000 0.2452218 0.2845819 0.0000000
## [48,] 0.3283944 0.2681088 0.0000000 0.0000000 0.0000000 0.0000000 0.2858256
## [49,] 0.0000000 0.2625337 0.2302195 0.2741467 0.2810192 0.0000000 0.2480332
## [50,] 0.2449960 0.2714931 0.2375194 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2924792 0.2408755 0.3058338
## [52,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.2724404 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.3082171 0.0000000 0.0000000 0.0000000
## [55,] 0.0000000 0.0000000 0.3113012 0.0000000 0.0000000 0.3316408 0.0000000

```

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## [56,] 0.3223963 0.0000000 0.2532123 0.0000000 0.0000000 0.0000000 0.0000000
## [57,] 0.0000000 0.0000000 0.2855548 0.0000000 0.0000000 0.0000000 0.2985959
## [58,] 0.0000000 0.0000000 0.2988859 0.0000000 0.0000000 0.2565430 0.2514304
## [59,] 0.2666270 0.0000000 0.0000000 0.3141518 0.0000000 0.2870592 0.2512240
## [60,] 0.2263733 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.2381067 0.0000000 0.0000000 0.2358846 0.0000000 0.2408276 0.0000000
## [62,] 0.0000000 0.2216957 0.2408454 0.2916542 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2930844 0.0000000 0.0000000
## [64,] 0.0000000 0.0000000 0.2719342 0.0000000 0.3150284 0.0000000 0.0000000
## [65,] 0.3130301 0.3105859 0.2274550 0.2834065 0.0000000 0.3074103 0.2796372
## [66,] 0.0000000 0.2935508 0.0000000 0.3032273 0.0000000 0.0000000 0.0000000
## [67,] 0.2932376 0.2695222 0.0000000 0.2369362 0.3164969 0.0000000 0.2983181
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3036045 0.2927079
## [69,] 0.3265675 0.2530530 0.2621273 0.0000000 0.2652896 0.0000000 0.2995708
## [70,] 0.2885700 0.0000000 0.2384966 0.0000000 0.0000000 0.2882518 0.0000000
## [71,] 0.2348054 0.2615422 0.2409667 0.0000000 0.2722239 0.0000000 0.0000000
##      [,29]      [,30]      [,31]      [,32]      [,33]      [,34]      [,35]
## [1,] 0.0000000 0.2860953 0.2460023 0.0000000 0.2551336 0.0000000 0.0000000
## [2,] 0.3360296 0.0000000 0.0000000 0.0000000 0.0000000 0.2762147 0.3102787
## [3,] 0.0000000 0.0000000 0.2205934 0.2587765 0.2603081 0.0000000 0.0000000
## [4,] 0.0000000 0.2791517 0.2711124 0.0000000 0.0000000 0.0000000 0.0000000
## [5,] 0.0000000 0.2748946 0.3163708 0.0000000 0.0000000 0.2970642 0.3115461
## [6,] 0.0000000 0.0000000 0.0000000 0.2564016 0.2553714 0.2648284 0.2538184
## [7,] 0.2960263 0.0000000 0.2814923 0.2859659 0.2504775 0.2820061 0.0000000
## [8,] 0.0000000 0.0000000 0.3012892 0.2563149 0.2149749 0.3067302 0.0000000
## [9,] 0.3306583 0.0000000 0.2819239 0.0000000 0.0000000 0.0000000 0.3253561
## [10,] 0.0000000 0.2660731 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.2686128 0.2616804 0.0000000 0.2544958 0.0000000 0.0000000 0.0000000
## [12,] 0.2697974 0.3155425 0.0000000 0.0000000 0.2938762 0.0000000 0.0000000
## [13,] 0.0000000 0.2867234 0.0000000 0.0000000 0.2951695 0.2114754 0.2844440
## [14,] 0.0000000 0.0000000 0.2849848 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2814097 0.3136269
## [16,] 0.2479780 0.3194760 0.0000000 0.2846044 0.0000000 0.0000000 0.0000000
## [17,] 0.0000000 0.2878834 0.0000000 0.0000000 0.0000000 0.0000000 0.3183202
## [18,] 0.0000000 0.2624695 0.0000000 0.0000000 0.2691587 0.0000000 0.2426416
## [19,] 0.0000000 0.3111167 0.2442013 0.2866409 0.0000000 0.0000000 0.0000000
## [20,] 0.0000000 0.3030611 0.3052652 0.0000000 0.0000000 0.0000000 0.2628886
## [21,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2802189 0.3042506 0.2522077
## [22,] 0.0000000 0.2510240 0.0000000 0.0000000 0.0000000 0.2570377 0.2818965
## [23,] 0.2792949 0.2734222 0.2992881 0.0000000 0.3132117 0.0000000 0.2399341
## [24,] 0.0000000 0.2991248 0.0000000 0.2381743 0.2593837 0.2881566 0.2616702
## [25,] 0.2244455 0.2339458 0.3298628 0.0000000 0.2884454 0.0000000 0.2566481
## [26,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [27,] 0.3323869 0.3005790 0.2811630 0.0000000 0.0000000 0.0000000 0.2748829
## [28,] 0.0000000 0.0000000 0.0000000 0.2907826 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.0000000 0.2579084 0.0000000 0.3158337 0.2702786 0.3572237
## [30,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [31,] 0.2579084 0.0000000 0.0000000 0.2954150 0.0000000 0.3519621 0.0000000
## [32,] 0.0000000 0.0000000 0.2954150 0.0000000 0.2725792 0.0000000 0.2125839
## [33,] 0.3158337 0.0000000 0.0000000 0.2725792 0.0000000 0.0000000 0.0000000
## [34,] 0.2702786 0.0000000 0.3519621 0.0000000 0.0000000 0.0000000 0.0000000
## [35,] 0.3572237 0.0000000 0.0000000 0.2125839 0.0000000 0.0000000 0.0000000
## [36,] 0.2514414 0.0000000 0.0000000 0.0000000 0.0000000 0.2519716 0.0000000
## [37,] 0.2610700 0.0000000 0.0000000 0.2948106 0.0000000 0.3147490 0.0000000

```

```

## [38,] 0.2512437 0.0000000 0.0000000 0.0000000 0.3675109 0.2497080 0.0000000
## [39,] 0.2904968 0.2604519 0.3070067 0.3070931 0.0000000 0.2748106 0.2429312
## [40,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2732842 0.2616128 0.0000000
## [41,] 0.2434957 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2594763
## [42,] 0.2725172 0.0000000 0.0000000 0.0000000 0.0000000 0.2947533 0.2673064
## [43,] 0.2560521 0.3197532 0.0000000 0.0000000 0.0000000 0.3030487 0.0000000
## [44,] 0.2803981 0.0000000 0.0000000 0.0000000 0.2725119 0.3481386 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2895685 0.2615720 0.0000000
## [46,] 0.3244840 0.0000000 0.0000000 0.2796440 0.2919553 0.0000000 0.0000000
## [47,] 0.3286627 0.2249232 0.0000000 0.0000000 0.0000000 0.2357313 0.0000000
## [48,] 0.0000000 0.2718986 0.0000000 0.0000000 0.0000000 0.0000000 0.2035306
## [49,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2844840 0.2858713
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2522444 0.0000000
## [51,] 0.2584033 0.2832340 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [52,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2759091
## [53,] 0.2748758 0.2304977 0.0000000 0.3051873 0.0000000 0.2321014 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.3115595 0.0000000 0.2710631 0.2467322
## [55,] 0.0000000 0.3161790 0.0000000 0.2922922 0.0000000 0.2438277 0.0000000
## [56,] 0.0000000 0.2731786 0.0000000 0.0000000 0.2562976 0.0000000 0.0000000
## [57,] 0.0000000 0.2959598 0.3168988 0.0000000 0.2722390 0.0000000 0.0000000
## [58,] 0.2455858 0.2388211 0.3306533 0.0000000 0.2643681 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.3314062 0.0000000 0.2598709 0.0000000 0.0000000
## [60,] 0.0000000 0.2558788 0.0000000 0.3102354 0.0000000 0.0000000 0.0000000
## [61,] 0.2543762 0.0000000 0.3229921 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.2933632 0.0000000 0.2381826 0.0000000 0.3070554 0.2586108 0.0000000
## [63,] 0.2810788 0.2700186 0.0000000 0.3732529 0.2707779 0.0000000 0.0000000
## [64,] 0.0000000 0.0000000 0.0000000 0.2798493 0.2302485 0.0000000 0.2882698
## [65,] 0.0000000 0.0000000 0.0000000 0.2738737 0.0000000 0.2941588 0.0000000
## [66,] 0.2357831 0.0000000 0.2923542 0.2587650 0.2484303 0.2945769 0.0000000
## [67,] 0.2906284 0.0000000 0.0000000 0.0000000 0.0000000 0.3088117 0.2913982
## [68,] 0.0000000 0.0000000 0.2596145 0.0000000 0.2614756 0.2687269 0.0000000
## [69,] 0.2991603 0.2561456 0.1978255 0.0000000 0.0000000 0.2340508 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2691874 0.2351070 0.2285240
## [71,] 0.0000000 0.0000000 0.2930584 0.3164631 0.3228626 0.0000000 0.0000000
##      [,36]      [,37]      [,38]      [,39]      [,40]      [,41]      [,42]
## [1,] 0.0000000 0.2561900 0.3045368 0.0000000 0.0000000 0.2926149 0.2700105
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2620778 0.2552393 0.3077809
## [3,] 0.0000000 0.2617142 0.0000000 0.0000000 0.0000000 0.0000000 0.2775341
## [4,] 0.2796089 0.0000000 0.0000000 0.2663183 0.0000000 0.0000000 0.2586062
## [5,] 0.3156271 0.2179523 0.3508043 0.0000000 0.0000000 0.0000000 0.2859533
## [6,] 0.0000000 0.0000000 0.3014738 0.2553437 0.3131368 0.2715774 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.2599931 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2463510
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2734658 0.2147825
## [10,] 0.0000000 0.2671560 0.0000000 0.2366333 0.0000000 0.2933127 0.0000000
## [11,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2695838 0.0000000 0.2818552
## [12,] 0.0000000 0.0000000 0.0000000 0.2836028 0.0000000 0.2839612 0.2857166
## [13,] 0.2627894 0.0000000 0.0000000 0.2660235 0.0000000 0.0000000 0.2605745
## [14,] 0.3201164 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.2469051 0.0000000 0.2854246 0.0000000 0.2100799 0.0000000 0.2970545
## [16,] 0.0000000 0.3343297 0.0000000 0.2571503 0.0000000 0.0000000 0.3133608
## [17,] 0.2708230 0.0000000 0.3426633 0.0000000 0.0000000 0.2919663 0.0000000
## [18,] 0.0000000 0.2953355 0.3327693 0.2783696 0.0000000 0.0000000 0.2252939
## [19,] 0.2289420 0.2518443 0.0000000 0.2673173 0.0000000 0.2801105 0.3071180

```



```

## [20,] 0.2600842 0.0000000 0.0000000 0.3206645 0.0000000 0.0000000 0.0000000
## [21,] 0.2682280 0.0000000 0.0000000 0.2732569 0.2769238 0.0000000 0.0000000
## [22,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2928907 0.3037330
## [23,] 0.0000000 0.0000000 0.2614785 0.0000000 0.0000000 0.2751026 0.0000000
## [24,] 0.0000000 0.0000000 0.0000000 0.2941048 0.0000000 0.0000000 0.2782925
## [25,] 0.0000000 0.0000000 0.0000000 0.3248773 0.0000000 0.0000000 0.0000000
## [26,] 0.3553600 0.2839364 0.0000000 0.0000000 0.0000000 0.2761402 0.0000000
## [27,] 0.0000000 0.0000000 0.0000000 0.3291877 0.2509227 0.2858098 0.0000000
## [28,] 0.2990587 0.0000000 0.0000000 0.3235645 0.2925813 0.0000000 0.3651734
## [29,] 0.2514414 0.2610700 0.2512437 0.2904968 0.0000000 0.2434957 0.2725172
## [30,] 0.0000000 0.0000000 0.0000000 0.2604519 0.0000000 0.0000000 0.0000000
## [31,] 0.0000000 0.0000000 0.0000000 0.3070067 0.0000000 0.0000000 0.0000000
## [32,] 0.0000000 0.2948106 0.0000000 0.3070931 0.0000000 0.0000000 0.0000000
## [33,] 0.0000000 0.0000000 0.3675109 0.0000000 0.2732842 0.0000000 0.0000000
## [34,] 0.2519716 0.3147490 0.2497080 0.2748106 0.2616128 0.0000000 0.2947533
## [35,] 0.0000000 0.0000000 0.0000000 0.2429312 0.0000000 0.2594763 0.2673064
## [36,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2846103 0.2826517 0.2791399
## [37,] 0.0000000 0.0000000 0.2842736 0.2605786 0.0000000 0.2863888 0.2819564
## [38,] 0.0000000 0.2842736 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.0000000 0.2605786 0.0000000 0.0000000 0.2870688 0.3065837 0.2640689
## [40,] 0.2846103 0.0000000 0.0000000 0.2870688 0.0000000 0.0000000 0.0000000
## [41,] 0.2826517 0.2863888 0.0000000 0.3065837 0.0000000 0.0000000 0.0000000
## [42,] 0.2791399 0.2819564 0.0000000 0.2640689 0.0000000 0.0000000 0.0000000
## [43,] 0.2842633 0.0000000 0.0000000 0.0000000 0.2872381 0.0000000 0.0000000
## [44,] 0.0000000 0.2682240 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.2882832 0.2735724 0.0000000 0.2796359 0.0000000 0.0000000 0.2545117
## [46,] 0.0000000 0.2911783 0.0000000 0.0000000 0.0000000 0.0000000 0.2916500
## [47,] 0.3275086 0.0000000 0.0000000 0.3249623 0.0000000 0.0000000 0.2748711
## [48,] 0.2313599 0.3153346 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.2521490 0.2845882 0.2676474 0.2464721 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2673137 0.0000000 0.0000000
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2598473 0.0000000 0.2432112
## [52,] 0.0000000 0.0000000 0.0000000 0.2469458 0.2993841 0.2624546 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.3035747 0.2793255 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [55,] 0.0000000 0.2984309 0.0000000 0.0000000 0.2712994 0.0000000 0.0000000
## [56,] 0.0000000 0.0000000 0.0000000 0.3200884 0.0000000 0.2222450 0.0000000
## [57,] 0.0000000 0.0000000 0.0000000 0.3124905 0.3237622 0.0000000 0.0000000
## [58,] 0.2491555 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3034900
## [59,] 0.0000000 0.0000000 0.0000000 0.2817029 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.3099239 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.3024026 0.0000000 0.0000000 0.0000000
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## [63,] 0.0000000 0.0000000 0.0000000 0.2743384 0.2723358 0.2743769 0.2970127
## [64,] 0.0000000 0.2484832 0.0000000 0.0000000 0.0000000 0.0000000 0.3287456
## [65,] 0.0000000 0.0000000 0.0000000 0.2870264 0.3032169 0.2561290 0.0000000
## [66,] 0.0000000 0.2747342 0.0000000 0.2819487 0.0000000 0.0000000 0.2716268
## [67,] 0.2783572 0.2327012 0.2867372 0.2318606 0.2828318 0.3419392 0.2860520
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000 0.3458507 0.2673329 0.0000000 0.0000000 0.2587845 0.2882411
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3249271 0.0000000
## [71,] 0.3262974 0.0000000 0.2740146 0.2975046 0.0000000 0.3343421 0.3155501
##      [,43]      [,44]      [,45]      [,46]      [,47]      [,48]      [,49]
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2743141 0.0000000

```

```

## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.2544223 0.0000000 0.3050310 0.3273788 0.2517167 0.0000000
## [4,] 0.2405491 0.0000000 0.0000000 0.0000000 0.0000000 0.2958018 0.2860114
## [5,] 0.2916675 0.0000000 0.0000000 0.3205697 0.0000000 0.0000000 0.2641028
## [6,] 0.2760768 0.0000000 0.0000000 0.2459365 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.2937551 0.2883156 0.0000000 0.0000000
## [9,] 0.2822848 0.2796939 0.0000000 0.2798141 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000 0.2924075 0.2651192 0.0000000 0.0000000 0.2464463 0.0000000
## [12,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2948607 0.2405655
## [13,] 0.0000000 0.2730854 0.2882618 0.0000000 0.2627740 0.3299094 0.0000000
## [14,] 0.0000000 0.0000000 0.2681576 0.2455847 0.2951860 0.0000000 0.2291355
## [15,] 0.2617007 0.0000000 0.0000000 0.0000000 0.2463145 0.2507815 0.2667839
## [16,] 0.0000000 0.3093542 0.0000000 0.0000000 0.2279271 0.0000000 0.0000000
## [17,] 0.0000000 0.0000000 0.2611769 0.2786430 0.0000000 0.0000000 0.0000000
## [18,] 0.0000000 0.0000000 0.0000000 0.3123851 0.2035296 0.0000000 0.0000000
## [19,] 0.2708674 0.0000000 0.3091363 0.2674540 0.2344260 0.0000000 0.2829630
## [20,] 0.2357495 0.0000000 0.2782994 0.2975676 0.0000000 0.0000000 0.0000000
## [21,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [22,] 0.0000000 0.3060051 0.0000000 0.3433104 0.2597578 0.3283944 0.0000000
## [23,] 0.0000000 0.2770538 0.0000000 0.3318272 0.0000000 0.2681088 0.2625337
## [24,] 0.2770052 0.0000000 0.3018976 0.0000000 0.3037920 0.0000000 0.2302195
## [25,] 0.0000000 0.2754850 0.2655889 0.2395906 0.0000000 0.0000000 0.2741467
## [26,] 0.0000000 0.2519484 0.0000000 0.2810385 0.2452218 0.0000000 0.2810192
## [27,] 0.2983419 0.3376116 0.0000000 0.2982783 0.2845819 0.0000000 0.0000000
## [28,] 0.3352278 0.0000000 0.3047468 0.2596117 0.0000000 0.2858256 0.2480332
## [29,] 0.2560521 0.2803981 0.0000000 0.3244840 0.3286627 0.0000000 0.0000000
## [30,] 0.3197532 0.0000000 0.0000000 0.0000000 0.2249232 0.2718986 0.0000000
## [31,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [32,] 0.0000000 0.0000000 0.0000000 0.2796440 0.0000000 0.0000000 0.0000000
## [33,] 0.0000000 0.2725119 0.2895685 0.2919553 0.0000000 0.0000000 0.0000000
## [34,] 0.3030487 0.3481386 0.2615720 0.0000000 0.2357313 0.0000000 0.2844840
## [35,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2035306 0.2858713
## [36,] 0.2842633 0.0000000 0.2882832 0.0000000 0.3275086 0.2313599 0.0000000
## [37,] 0.0000000 0.2682240 0.2735724 0.2911783 0.0000000 0.3153346 0.2521490
## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2845882
## [39,] 0.0000000 0.0000000 0.2796359 0.0000000 0.3249623 0.0000000 0.2676474
## [40,] 0.2872381 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2464721
## [41,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [42,] 0.0000000 0.0000000 0.2545117 0.2916500 0.2748711 0.0000000 0.0000000
## [43,] 0.0000000 0.2885203 0.0000000 0.2921253 0.0000000 0.0000000 0.2796612
## [44,] 0.2885203 0.0000000 0.2900866 0.0000000 0.3291750 0.0000000 0.2716258
## [45,] 0.0000000 0.2900866 0.0000000 0.2830920 0.3003282 0.3115613 0.2302528
## [46,] 0.2921253 0.0000000 0.2830920 0.0000000 0.0000000 0.0000000 0.0000000
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## [48,] 0.0000000 0.0000000 0.3115613 0.0000000 0.0000000 0.0000000 0.2504394
## [49,] 0.2796612 0.2716258 0.2302528 0.0000000 0.3183495 0.2504394 0.0000000
## [50,] 0.2711718 0.2599009 0.0000000 0.2408505 0.0000000 0.0000000 0.2850313
## [51,] 0.0000000 0.2927171 0.2916751 0.2252494 0.2405650 0.0000000 0.0000000
## [52,] 0.0000000 0.0000000 0.0000000 0.2325546 0.0000000 0.0000000 0.0000000
## [53,] 0.0000000 0.2824054 0.2945771 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.3030881 0.2650591 0.0000000 0.0000000 0.2795819 0.0000000 0.2496856
## [55,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2427698

```

```

## [56,] 0.2258557 0.0000000 0.0000000 0.0000000 0.0000000 0.2610094 0.0000000
## [57,] 0.2745373 0.0000000 0.2890138 0.2566705 0.0000000 0.2546837 0.2478950
## [58,] 0.0000000 0.2986433 0.0000000 0.0000000 0.2333313 0.2381473 0.0000000
## [59,] 0.0000000 0.0000000 0.2528286 0.0000000 0.3113310 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.2844315 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.2980438 0.2151800 0.3176136 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.2718075 0.0000000 0.0000000 0.2610612
## [64,] 0.2752537 0.0000000 0.3234300 0.0000000 0.0000000 0.2664244 0.0000000
## [65,] 0.2416295 0.2449679 0.3135419 0.2802965 0.3202635 0.0000000 0.0000000
## [66,] 0.2570970 0.2515749 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.0000000 0.2600474 0.2668003 0.0000000 0.0000000 0.2927925 0.0000000
## [68,] 0.0000000 0.0000000 0.2585569 0.0000000 0.0000000 0.0000000 0.3140850
## [69,] 0.0000000 0.2655807 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.2083613 0.0000000 0.0000000 0.2235585 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.2722601 0.0000000 0.2719036 0.0000000 0.3033125 0.2718073
##      [,50]      [,51]      [,52]      [,53]      [,54]      [,55]      [,56]
## [1,] 0.2624831 0.0000000 0.2549942 0.2746245 0.0000000 0.2777849 0.0000000
## [2,] 0.0000000 0.3013831 0.2507523 0.3153042 0.2919807 0.2718208 0.2583370
## [3,] 0.2431177 0.2018127 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000 0.3587629 0.2477807 0.2735255 0.0000000 0.0000000 0.0000000
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3272323
## [6,] 0.0000000 0.0000000 0.0000000 0.2442211 0.0000000 0.3072113 0.2451902
## [7,] 0.3132724 0.2662739 0.2902527 0.0000000 0.2745586 0.0000000 0.0000000
## [8,] 0.2724683 0.2854890 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.2730634 0.2723940 0.0000000 0.2507665 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.2754221 0.2770547 0.0000000 0.0000000 0.3471570 0.2726443
## [11,] 0.0000000 0.0000000 0.2585520 0.3009685 0.2567680 0.0000000 0.0000000
## [12,] 0.0000000 0.0000000 0.0000000 0.3092498 0.0000000 0.0000000 0.2602405
## [13,] 0.0000000 0.0000000 0.2549340 0.2825170 0.2713543 0.0000000 0.0000000
## [14,] 0.0000000 0.0000000 0.0000000 0.2949204 0.3067451 0.0000000 0.2942847
## [15,] 0.0000000 0.2806690 0.2871885 0.3031178 0.0000000 0.0000000 0.0000000
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2615465 0.3440292
## [17,] 0.3020926 0.0000000 0.2942652 0.0000000 0.3387585 0.3130429 0.0000000
## [18,] 0.0000000 0.2906515 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2823961 0.2140663 0.0000000
## [20,] 0.0000000 0.0000000 0.2532732 0.0000000 0.0000000 0.0000000 0.2815700
## [21,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3185225 0.0000000 0.0000000
## [22,] 0.2449960 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3223963
## [23,] 0.2714931 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.2375194 0.0000000 0.0000000 0.0000000 0.0000000 0.3113012 0.2532123
## [25,] 0.0000000 0.0000000 0.0000000 0.2724404 0.3082171 0.0000000 0.0000000
## [26,] 0.0000000 0.2924792 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [27,] 0.0000000 0.2408755 0.0000000 0.0000000 0.0000000 0.3316408 0.0000000
## [28,] 0.0000000 0.3058338 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.2584033 0.0000000 0.2748758 0.0000000 0.0000000 0.0000000
## [30,] 0.0000000 0.2832340 0.0000000 0.2304977 0.0000000 0.3161790 0.2731786
## [31,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [32,] 0.0000000 0.0000000 0.0000000 0.3051873 0.3115595 0.2922922 0.0000000
## [33,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2562976
## [34,] 0.2522444 0.0000000 0.0000000 0.2321014 0.2710631 0.2438277 0.0000000
## [35,] 0.0000000 0.0000000 0.2759091 0.0000000 0.2467322 0.0000000 0.0000000
## [36,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3035747 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2793255 0.2984309 0.0000000

```

```

## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.0000000 0.0000000 0.2469458 0.0000000 0.0000000 0.0000000 0.3200884
## [40,] 0.2673137 0.2598473 0.2993841 0.0000000 0.0000000 0.2712994 0.0000000
## [41,] 0.0000000 0.0000000 0.2624546 0.0000000 0.0000000 0.0000000 0.2222450
## [42,] 0.0000000 0.2432112 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [43,] 0.2711718 0.0000000 0.0000000 0.0000000 0.3030881 0.0000000 0.2258557
## [44,] 0.2599009 0.2927171 0.0000000 0.2824054 0.2650591 0.0000000 0.0000000
## [45,] 0.0000000 0.2916751 0.0000000 0.2945771 0.0000000 0.0000000 0.0000000
## [46,] 0.2408505 0.2252494 0.2325546 0.0000000 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.2405650 0.0000000 0.0000000 0.2795819 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2610094
## [49,] 0.2850313 0.0000000 0.0000000 0.0000000 0.2496856 0.2427698 0.0000000
## [50,] 0.0000000 0.0000000 0.0000000 0.2352963 0.2455583 0.2720168 0.0000000
## [51,] 0.0000000 0.0000000 0.2826500 0.0000000 0.2882384 0.0000000 0.0000000
## [52,] 0.0000000 0.2826500 0.0000000 0.0000000 0.2474543 0.2776909 0.2719662
## [53,] 0.2352963 0.0000000 0.0000000 0.0000000 0.2630910 0.0000000 0.2366168
## [54,] 0.2455583 0.2882384 0.2474543 0.2630910 0.0000000 0.2933231 0.0000000
## [55,] 0.2720168 0.0000000 0.2776909 0.0000000 0.2933231 0.0000000 0.3321766
## [56,] 0.0000000 0.0000000 0.2719662 0.2366168 0.0000000 0.3321766 0.0000000
## [57,] 0.2820329 0.0000000 0.2863524 0.0000000 0.2136120 0.0000000 0.0000000
## [58,] 0.0000000 0.3113139 0.3362351 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.2566225 0.2981672 0.0000000 0.2739182 0.3375109 0.0000000 0.2809433
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.2371968 0.3302033 0.3421490 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.3125071 0.0000000 0.0000000 0.2518636 0.0000000 0.0000000
## [63,] 0.0000000 0.2760217 0.0000000 0.0000000 0.0000000 0.0000000 0.3224225
## [64,] 0.2858693 0.3213430 0.0000000 0.0000000 0.0000000 0.2864443 0.0000000
## [65,] 0.0000000 0.2681331 0.0000000 0.2250184 0.0000000 0.0000000 0.0000000
## [66,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3091741 0.0000000
## [67,] 0.0000000 0.0000000 0.2633265 0.2531487 0.2588873 0.2509031 0.0000000
## [68,] 0.0000000 0.2885860 0.2565628 0.0000000 0.2623105 0.0000000 0.3162131
## [69,] 0.0000000 0.2533554 0.0000000 0.3059997 0.3078611 0.2773922 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.2599168 0.0000000 0.0000000 0.0000000 0.0000000 0.2837439 0.0000000
##      [,57]      [,58]      [,59]      [,60]      [,61]      [,62]      [,63]
## [1,] 0.2784706 0.2562623 0.0000000 0.0000000 0.2790870 0.0000000 0.0000000
## [2,] 0.2151990 0.0000000 0.2377999 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.2602529 0.2959993 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000 0.2371847 0.0000000 0.0000000 0.0000000 0.0000000 0.3160976
## [5,] 0.2747290 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.2549130 0.0000000 0.2348831 0.0000000 0.2999371 0.0000000
## [7,] 0.2996706 0.0000000 0.2984088 0.2666213 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.3257316 0.0000000 0.0000000 0.0000000 0.0000000 0.2524725
## [9,] 0.0000000 0.2881273 0.2698996 0.3260382 0.2796873 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.2862886 0.2889037 0.2886164 0.0000000 0.2812663
## [11,] 0.2542759 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2278610
## [12,] 0.0000000 0.0000000 0.0000000 0.2573621 0.0000000 0.0000000 0.2645617
## [13,] 0.2478981 0.0000000 0.0000000 0.2552048 0.0000000 0.2806838 0.1998232
## [14,] 0.0000000 0.2510950 0.0000000 0.0000000 0.2761069 0.0000000 0.2932464
## [15,] 0.2373927 0.2211397 0.2919755 0.0000000 0.0000000 0.0000000 0.2651075
## [16,] 0.0000000 0.0000000 0.0000000 0.2722318 0.3190572 0.3072154 0.0000000
## [17,] 0.0000000 0.2567823 0.0000000 0.0000000 0.2653444 0.0000000 0.0000000
## [18,] 0.0000000 0.2463875 0.2651770 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.2439684 0.3336445 0.2843630 0.0000000 0.2319907 0.2917696 0.2590931

```

```

## [20,] 0.0000000 0.0000000 0.2494492 0.3249014 0.2776049 0.3684486 0.2572279
## [21,] 0.0000000 0.0000000 0.0000000 0.2652199 0.2711199 0.0000000 0.0000000
## [22,] 0.0000000 0.0000000 0.2666270 0.2263733 0.2381067 0.0000000 0.0000000
## [23,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2216957 0.0000000
## [24,] 0.2855548 0.2988859 0.0000000 0.0000000 0.0000000 0.2408454 0.0000000
## [25,] 0.0000000 0.0000000 0.3141518 0.0000000 0.2358846 0.2916542 0.0000000
## [26,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2930844
## [27,] 0.0000000 0.2565430 0.2870592 0.0000000 0.2408276 0.0000000 0.0000000
## [28,] 0.2985959 0.2514304 0.2512240 0.0000000 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.2455858 0.0000000 0.0000000 0.2543762 0.2933632 0.2810788
## [30,] 0.2959598 0.2388211 0.0000000 0.2558788 0.0000000 0.0000000 0.2700186
## [31,] 0.3168988 0.3306533 0.3314062 0.0000000 0.3229921 0.2381826 0.0000000
## [32,] 0.0000000 0.0000000 0.0000000 0.3102354 0.0000000 0.0000000 0.3732529
## [33,] 0.2722390 0.2643681 0.2598709 0.0000000 0.0000000 0.3070554 0.2707779
## [34,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2586108 0.0000000
## [35,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [36,] 0.0000000 0.2491555 0.0000000 0.0000000 0.0000000 0.2847495 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.3099239 0.0000000 0.3305326 0.0000000
## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2922696 0.0000000
## [39,] 0.3124905 0.0000000 0.2817029 0.0000000 0.3024026 0.2975377 0.2743384
## [40,] 0.3237622 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2723358
## [41,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2743769
## [42,] 0.0000000 0.3034900 0.0000000 0.0000000 0.0000000 0.0000000 0.2970127
## [43,] 0.2745373 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.2986433 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.2890138 0.0000000 0.2528286 0.0000000 0.2844315 0.2980438 0.0000000
## [46,] 0.2566705 0.0000000 0.0000000 0.0000000 0.0000000 0.2151800 0.2718075
## [47,] 0.0000000 0.2333313 0.3113310 0.0000000 0.0000000 0.3176136 0.0000000
## [48,] 0.2546837 0.2381473 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.2478950 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2610612
## [50,] 0.2820329 0.0000000 0.2566225 0.0000000 0.2371968 0.0000000 0.0000000
## [51,] 0.0000000 0.3113139 0.2981672 0.0000000 0.3302033 0.3125071 0.2760217
## [52,] 0.2863524 0.3362351 0.0000000 0.0000000 0.3421490 0.0000000 0.0000000
## [53,] 0.0000000 0.0000000 0.2739182 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.2136120 0.0000000 0.3375109 0.0000000 0.0000000 0.2518636 0.0000000
## [55,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [56,] 0.0000000 0.0000000 0.2809433 0.0000000 0.0000000 0.0000000 0.3224225
## [57,] 0.0000000 0.0000000 0.0000000 0.2319088 0.0000000 0.0000000 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.2687485 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.3309101 0.0000000 0.0000000 0.0000000
## [60,] 0.2319088 0.2687485 0.3309101 0.0000000 0.0000000 0.0000000 0.2195937
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.6945781
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2705639
## [63,] 0.0000000 0.0000000 0.0000000 0.2195937 0.6945781 0.2705639 0.0000000
## [64,] 0.2177836 0.2819488 0.0000000 0.2842566 0.0000000 0.0000000 0.0000000
## [65,] 0.0000000 0.0000000 0.2518926 0.2763104 0.0000000 0.0000000 0.0000000
## [66,] 0.0000000 0.0000000 0.2599989 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.0000000 0.0000000 0.2523184 0.3066947 0.0000000 0.0000000 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.3120707 0.0000000 0.2427779 0.2726980
## [69,] 0.2953471 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2768986
## [70,] 0.2797346 0.0000000 0.2730507 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.2870603 0.0000000 0.0000000 0.2597585 0.0000000 0.0000000 0.0000000
##      [,64]      [,65]      [,66]      [,67]      [,68]      [,69]      [,70]
## [1,] 0.3476980 0.2593768 0.0000000 0.0000000 0.3415852 0.0000000 0.2859371

```

```

## [2,] 0.0000000 0.2934100 0.0000000 0.0000000 0.0000000 0.0000000 0.2831658
## [3,] 0.2834089 0.2990740 0.2807568 0.0000000 0.0000000 0.2717136 0.0000000
## [4,] 0.0000000 0.0000000 0.0000000 0.2829525 0.0000000 0.0000000 0.0000000
## [5,] 0.0000000 0.2595044 0.2807947 0.3099010 0.0000000 0.2725061 0.3058501
## [6,] 0.0000000 0.2747194 0.0000000 0.0000000 0.2468496 0.0000000 0.2478256
## [7,] 0.2488203 0.2768123 0.0000000 0.0000000 0.0000000 0.2599369 0.0000000
## [8,] 0.0000000 0.0000000 0.2522671 0.2655086 0.2951583 0.2871906 0.3099728
## [9,] 0.2886589 0.3110956 0.0000000 0.0000000 0.0000000 0.0000000 0.3303972
## [10,] 0.0000000 0.0000000 0.0000000 0.2517121 0.0000000 0.0000000 0.0000000
## [11,] 0.3100092 0.0000000 0.2496033 0.0000000 0.0000000 0.2616788 0.0000000
## [12,] 0.2424214 0.2822617 0.2254528 0.0000000 0.0000000 0.0000000 0.0000000
## [13,] 0.2432392 0.0000000 0.2864338 0.0000000 0.2817679 0.0000000 0.0000000
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3382615 0.0000000 0.2911045
## [15,] 0.2291862 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2481658
## [16,] 0.0000000 0.0000000 0.0000000 0.2456296 0.3279598 0.2740864 0.2848617
## [17,] 0.0000000 0.3148428 0.0000000 0.0000000 0.3509136 0.0000000 0.0000000
## [18,] 0.2397074 0.3219599 0.2772231 0.0000000 0.0000000 0.3345793 0.0000000
## [19,] 0.3064367 0.0000000 0.0000000 0.0000000 0.0000000 0.2575803 0.0000000
## [20,] 0.0000000 0.0000000 0.0000000 0.2815006 0.0000000 0.3145574 0.0000000
## [21,] 0.3490857 0.0000000 0.0000000 0.0000000 0.2511631 0.0000000 0.0000000
## [22,] 0.0000000 0.3130301 0.0000000 0.2932376 0.0000000 0.3265675 0.2885700
## [23,] 0.0000000 0.3105859 0.2935508 0.2695222 0.0000000 0.2530530 0.0000000
## [24,] 0.2719342 0.2274550 0.0000000 0.0000000 0.0000000 0.2621273 0.2384966
## [25,] 0.0000000 0.2834065 0.3032273 0.2369362 0.0000000 0.0000000 0.0000000
## [26,] 0.3150284 0.0000000 0.0000000 0.3164969 0.0000000 0.2652896 0.0000000
## [27,] 0.0000000 0.3074103 0.0000000 0.0000000 0.3036045 0.0000000 0.2882518
## [28,] 0.0000000 0.2796372 0.0000000 0.2983181 0.2927079 0.2995708 0.0000000
## [29,] 0.0000000 0.0000000 0.2357831 0.2906284 0.0000000 0.2991603 0.0000000
## [30,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2561456 0.0000000
## [31,] 0.0000000 0.0000000 0.2923542 0.0000000 0.2596145 0.1978255 0.0000000
## [32,] 0.2798493 0.2738737 0.2587650 0.0000000 0.0000000 0.0000000 0.0000000
## [33,] 0.2302485 0.0000000 0.2484303 0.0000000 0.2614756 0.0000000 0.2691874
## [34,] 0.0000000 0.2941588 0.2945769 0.3088117 0.2687269 0.2340508 0.2351070
## [35,] 0.2882698 0.0000000 0.0000000 0.2913982 0.0000000 0.0000000 0.2285240
## [36,] 0.0000000 0.0000000 0.0000000 0.2783572 0.0000000 0.0000000 0.0000000
## [37,] 0.2484832 0.0000000 0.2747342 0.2327012 0.0000000 0.3458507 0.0000000
## [38,] 0.0000000 0.0000000 0.0000000 0.2867372 0.0000000 0.2673329 0.0000000
## [39,] 0.0000000 0.2870264 0.2819487 0.2318606 0.0000000 0.0000000 0.0000000
## [40,] 0.0000000 0.3032169 0.0000000 0.2828318 0.0000000 0.0000000 0.0000000
## [41,] 0.0000000 0.2561290 0.0000000 0.3419392 0.0000000 0.2587845 0.3249271
## [42,] 0.3287456 0.0000000 0.2716268 0.2860520 0.0000000 0.2882411 0.0000000
## [43,] 0.2752537 0.2416295 0.2570970 0.0000000 0.0000000 0.0000000 0.2083613
## [44,] 0.0000000 0.2449679 0.2515749 0.2600474 0.0000000 0.2655807 0.0000000
## [45,] 0.3234300 0.3135419 0.0000000 0.2668003 0.2585569 0.0000000 0.0000000
## [46,] 0.0000000 0.2802965 0.0000000 0.0000000 0.0000000 0.0000000 0.2235585
## [47,] 0.0000000 0.3202635 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.2664244 0.0000000 0.0000000 0.2927925 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3140850 0.0000000 0.0000000
## [50,] 0.2858693 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.3213430 0.2681331 0.0000000 0.0000000 0.2885860 0.2533554 0.0000000
## [52,] 0.0000000 0.0000000 0.0000000 0.2633265 0.2565628 0.0000000 0.0000000
## [53,] 0.0000000 0.2250184 0.0000000 0.2531487 0.0000000 0.3059997 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.2588873 0.2623105 0.3078611 0.0000000
## [55,] 0.2864443 0.0000000 0.3091741 0.2509031 0.0000000 0.2773922 0.0000000

```

```

## [56,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3162131 0.0000000 0.0000000
## [57,] 0.2177836 0.0000000 0.0000000 0.0000000 0.0000000 0.2953471 0.2797346
## [58,] 0.2819488 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.2518926 0.2599989 0.2523184 0.0000000 0.0000000 0.2730507
## [60,] 0.2842566 0.2763104 0.0000000 0.3066947 0.3120707 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2427779 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2726980 0.2768986 0.0000000
## [64,] 0.0000000 0.2536313 0.0000000 0.0000000 0.2692265 0.0000000 0.0000000
## [65,] 0.2536313 0.0000000 0.0000000 0.0000000 0.2634033 0.0000000 0.0000000
## [66,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2894315 0.3260603 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.2692265 0.2634033 0.2894315 0.0000000 0.0000000 0.2690725 0.3105510
## [69,] 0.0000000 0.0000000 0.3260603 0.0000000 0.2690725 0.0000000 0.2897730
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3105510 0.2897730 0.0000000
## [71,] 0.2542707 0.0000000 0.2414962 0.2997339 0.0000000 0.0000000 0.0000000
##      [,71]
## [1,] 0.2713161
## [2,] 0.0000000
## [3,] 0.2416060
## [4,] 0.0000000
## [5,] 0.0000000
## [6,] 0.0000000
## [7,] 0.0000000
## [8,] 0.0000000
## [9,] 0.0000000
## [10,] 0.0000000
## [11,] 0.0000000
## [12,] 0.2787178
## [13,] 0.2938529
## [14,] 0.0000000
## [15,] 0.2625664
## [16,] 0.0000000
## [17,] 0.0000000
## [18,] 0.0000000
## [19,] 0.0000000
## [20,] 0.0000000
## [21,] 0.3778121
## [22,] 0.2348054
## [23,] 0.2615422
## [24,] 0.2409667
## [25,] 0.0000000
## [26,] 0.2722239
## [27,] 0.0000000
## [28,] 0.0000000
## [29,] 0.0000000
## [30,] 0.0000000
## [31,] 0.2930584
## [32,] 0.3164631
## [33,] 0.3228626
## [34,] 0.0000000
## [35,] 0.0000000
## [36,] 0.3262974
## [37,] 0.0000000

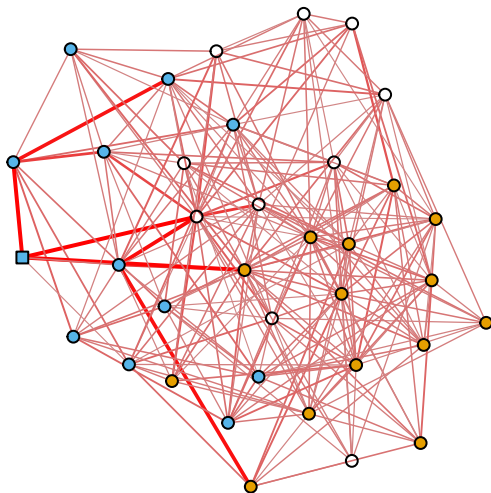
```

```

## [38,] 0.2740146
## [39,] 0.2975046
## [40,] 0.0000000
## [41,] 0.3343421
## [42,] 0.3155501
## [43,] 0.0000000
## [44,] 0.2722601
## [45,] 0.0000000
## [46,] 0.2719036
## [47,] 0.0000000
## [48,] 0.3033125
## [49,] 0.2718073
## [50,] 0.2599168
## [51,] 0.0000000
## [52,] 0.0000000
## [53,] 0.0000000
## [54,] 0.0000000
## [55,] 0.2837439
## [56,] 0.0000000
## [57,] 0.2870603
## [58,] 0.0000000
## [59,] 0.0000000
## [60,] 0.2597585
## [61,] 0.0000000
## [62,] 0.0000000
## [63,] 0.0000000
## [64,] 0.2542707
## [65,] 0.0000000
## [66,] 0.2414962
## [67,] 0.2997339
## [68,] 0.0000000
## [69,] 0.0000000
## [70,] 0.0000000
## [71,] 0.0000000

```

```
vis.motif(motif.graphs,60L,c1,threshold=0.2)
```



```

##      [,1] [,2] [,3]      [,4] [,5] [,6]      [,7]      [,8] [,9] [,10]
## [1,]    0    0    0 0.0000000    0    0 0.0000000 0.0000000    0    0

```



## [2,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [3,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [4,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [5,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [6,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [7,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [8,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [9,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [10,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [11,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [12,]	0	0	0 0.5103825	0	0 0.0000000	0.1977808	0	0
## [13,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [14,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [15,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [16,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [17,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [18,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [19,]	0	0	0 0.2005751	0	0 0.3248181	0.0000000	0	0
## [20,]	0	0	0 0.3815714	0	0 0.0000000	0.0000000	0	0
## [21,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [22,]	0	0	0 0.3636633	0	0 0.0000000	0.0000000	0	0
## [23,]	0	0	0 0.2633630	0	0 0.0000000	0.2294227	0	0
## [24,]	0	0	0 0.0000000	0	0 0.0000000	0.3317530	0	0
## [25,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [26,]	0	0	0 0.2028552	0	0 0.0000000	0.1991068	0	0
## [27,]	0	0	0 0.2027553	0	0 0.0000000	0.0000000	0	0
## [28,]	0	0	0 0.3216766	0	0 0.6437092	0.0000000	0	0
## [29,]	0	0	0 0.3052002	0	0 0.0000000	0.0000000	0	0
## [30,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [31,]	0	0	0 0.3016152	0	0 0.0000000	0.0000000	0	0
## [32,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [33,]	0	0	0 0.0000000	0	0 0.3031654	0.0000000	0	0
## [34,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [35,]	0	0	0 0.4546678	0	0 0.4877480	0.0000000	0	0
## [36,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [37,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [38,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [39,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [40,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [41,]	0	0	0 0.3297954	0	0 0.0000000	0.3467376	0	0
## [42,]	0	0	0 0.1689728	0	0 0.0000000	0.0000000	0	0
## [43,]	0	0	0 0.0000000	0	0 0.0000000	0.2567472	0	0
## [44,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [45,]	0	0	0 0.3937110	0	0 0.0000000	0.0000000	0	0
## [46,]	0	0	0 0.2467160	0	0 0.2502366	0.0000000	0	0
## [47,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [48,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [49,]	0	0	0 0.0000000	0	0 0.0000000	0.2864451	0	0
## [50,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [51,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [52,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [53,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [54,]	0	0	0 0.3022599	0	0 0.0000000	0.0000000	0	0
## [55,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0

```

## [56,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
## [57,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
## [58,] 0 0 0 0.0000000 0 0 0.3497263 0.0000000 0 0
## [59,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
## [60,] 0 0 0 0.6773368 0 0 0.0000000 0.6593077 0 0
## [61,] 0 0 0 0.7176938 0 0 0.7079936 0.0000000 0 0
## [62,] 0 0 0 0.3947597 0 0 0.0000000 0.0000000 0 0
## [63,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
## [64,] 0 0 0 0.2151021 0 0 0.3198942 0.3180277 0 0
## [65,] 0 0 0 0.2437667 0 0 0.0000000 0.2208083 0 0
## [66,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
## [67,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
## [68,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
## [69,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
## [70,] 0 0 0 0.3252325 0 0 0.0000000 0.0000000 0 0
## [71,] 0 0 0 0.0000000 0 0 0.0000000 0.0000000 0 0
##      [,11] [,12] [,13] [,14] [,15] [,16] [,17] [,18] [,19]
## [1,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [2,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [3,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [4,] 0.0000000 0.5103825 0 0 0 0 0 0 0.2005751
## [5,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [6,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [7,] 0.0000000 0.0000000 0 0 0 0 0 0 0.3248181
## [8,] 0.0000000 0.1977808 0 0 0 0 0 0 0.0000000
## [9,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [10,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [11,] 0.0000000 0.2811724 0 0 0 0 0 0 0.0000000
## [12,] 0.2811724 0.0000000 0 0 0 0 0 0 0.2539043
## [13,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [14,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [15,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [16,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [17,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [18,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [19,] 0.0000000 0.2539043 0 0 0 0 0 0 0.0000000
## [20,] 0.0000000 0.0000000 0 0 0 0 0 0 0.3235118
## [21,] 0.2882331 0.0000000 0 0 0 0 0 0 0.2368854
## [22,] 0.0000000 0.0000000 0 0 0 0 0 0 0.2705620
## [23,] 0.2459572 0.0000000 0 0 0 0 0 0 0.0000000
## [24,] 0.2026288 0.2916121 0 0 0 0 0 0 0.2449004
## [25,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [26,] 0.2192775 0.2253955 0 0 0 0 0 0 0.2677480
## [27,] 0.3321554 0.2409098 0 0 0 0 0 0 0.0000000
## [28,] 0.0000000 0.2715887 0 0 0 0 0 0 0.2962017
## [29,] 0.0000000 0.2773380 0 0 0 0 0 0 0.2450488
## [30,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [31,] 0.0000000 0.1921298 0 0 0 0 0 0 0.0000000
## [32,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [33,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [34,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [35,] 0.0000000 0.0000000 0 0 0 0 0 0 0.2362288
## [36,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000
## [37,] 0.0000000 0.0000000 0 0 0 0 0 0 0.0000000

```

##	[38,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[39,]	0.1743011	0.2865748	0	0	0	0	0	0	0.0000000
##	[40,]	0.2886875	0.0000000	0	0	0	0	0	0	0.0000000
##	[41,]	0.2866443	0.1791160	0	0	0	0	0	0	0.0000000
##	[42,]	0.3063938	0.2307801	0	0	0	0	0	0	0.2115818
##	[43,]	0.3095615	0.0000000	0	0	0	0	0	0	0.2415041
##	[44,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[45,]	0.0000000	0.2785310	0	0	0	0	0	0	0.1853850
##	[46,]	0.3324884	0.0000000	0	0	0	0	0	0	0.2193592
##	[47,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[48,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[49,]	0.2935457	0.1727932	0	0	0	0	0	0	0.0000000
##	[50,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[51,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[52,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[53,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[54,]	0.3452584	0.2383394	0	0	0	0	0	0	0.0000000
##	[55,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[56,]	0.2555201	0.2123355	0	0	0	0	0	0	0.0000000
##	[57,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[58,]	0.2907274	0.2488713	0	0	0	0	0	0	0.0000000
##	[59,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[60,]	0.4911592	0.2269540	0	0	0	0	0	0	0.2711827
##	[61,]	0.7014222	0.0000000	0	0	0	0	0	0	0.0000000
##	[62,]	0.3020235	0.2805074	0	0	0	0	0	0	0.0000000
##	[63,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[64,]	0.0000000	0.2860230	0	0	0	0	0	0	0.3152603
##	[65,]	0.2644061	0.0000000	0	0	0	0	0	0	0.0000000
##	[66,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[67,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[68,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[69,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[70,]	0.2481163	0.0000000	0	0	0	0	0	0	0.3194205
##	[71,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##		[,20]	[,21]	[,22]	[,23]	[,24]	[,25]	[,26]		
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[4,]	0.3815714	0.0000000	0.3636633	0.2633630	0.0000000	0	0.2028552		
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[8,]	0.0000000	0.0000000	0.0000000	0.2294227	0.3317530	0	0.1991068		
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[11,]	0.0000000	0.2882331	0.0000000	0.2459572	0.2026288	0	0.2192775		
##	[12,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2916121	0	0.2253955		
##	[13,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[19,]	0.3235118	0.2368854	0.2705620	0.0000000	0.2449004	0	0.2677480		

```

## [20,] 0.0000000 0.2772487 0.2603617 0.2909230 0.3025936      0 0.2591941
## [21,] 0.2772487 0.0000000 0.0000000 0.0000000 0.2354474      0 0.2332115
## [22,] 0.2603617 0.0000000 0.0000000 0.0000000 0.0000000      0 0.2108082
## [23,] 0.2909230 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [24,] 0.3025936 0.2354474 0.0000000 0.0000000 0.0000000      0 0.2659640
## [25,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [26,] 0.2591941 0.2332115 0.2108082 0.0000000 0.2659640      0 0.0000000
## [27,] 0.3033522 0.2736925 0.0000000 0.2394237 0.2190355      0 0.2626266
## [28,] 0.0000000 0.0000000 0.2373677 0.0000000 0.2128139      0 0.2239432
## [29,] 0.2191070 0.0000000 0.0000000 0.0000000 0.0000000      0 0.2721844
## [30,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [31,] 0.2743660 0.2813255 0.2650296 0.0000000 0.3098718      0 0.2700860
## [32,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [33,] 0.0000000 0.2835529 0.2182808 0.2316522 0.1880095      0 0.2400126
## [34,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [35,] 0.2981700 0.0000000 0.0000000 0.0000000 0.0000000      0 0.2406684
## [36,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [39,] 0.0000000 0.0000000 0.2273200 0.0000000 0.0000000      0 0.2549105
## [40,] 0.2155609 0.2120381 0.0000000 0.0000000 0.2588860      0 0.3102950
## [41,] 0.0000000 0.3102666 0.2820574 0.2202897 0.2297830      0 0.2504304
## [42,] 0.2331731 0.0000000 0.0000000 0.0000000 0.2392223      0 0.2713675
## [43,] 0.2259213 0.2628552 0.0000000 0.0000000 0.2496674      0 0.2739530
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [49,] 0.0000000 0.2688273 0.2488821 0.0000000 0.0000000      0 0.2764240
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [51,] 0.0000000 0.0000000 0.2384598 0.0000000 0.0000000      0 0.0000000
## [52,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [54,] 0.0000000 0.0000000 0.2670560 0.0000000 0.0000000      0 0.3229191
## [55,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [56,] 0.2613329 0.3598292 0.2979030 0.2247671 0.2898887      0 0.2759385
## [57,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.1967740
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.2107251
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [64,] 0.0000000 0.0000000 0.3321238 0.0000000 0.2119307      0 0.0000000
## [65,] 0.0000000 0.0000000 0.2110425 0.0000000 0.2486681      0 0.2835620
## [66,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [70,] 0.0000000 0.4003847 0.0000000 0.0000000 0.0000000      0 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
##      [,27]      [,28]      [,29] [,30]      [,31] [,32]      [,33] [,34]
## [1,] 0.0000000 0.0000000 0.0000000      0 0.0000000      0 0.0000000      0

```

##	[2,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[3,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[4,]	0.2027553	0.3216766	0.3052002	0	0.3016152	0	0.0000000	0
##	[5,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[6,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[7,]	0.0000000	0.6437092	0.0000000	0	0.0000000	0	0.3031654	0
##	[8,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[9,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[10,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[11,]	0.3321554	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[12,]	0.2409098	0.2715887	0.2773380	0	0.1921298	0	0.0000000	0
##	[13,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[14,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[15,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[16,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[17,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[18,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[19,]	0.0000000	0.2962017	0.2450488	0	0.0000000	0	0.0000000	0
##	[20,]	0.3033522	0.0000000	0.2191070	0	0.2743660	0	0.0000000	0
##	[21,]	0.2736925	0.0000000	0.0000000	0	0.2813255	0	0.2835529	0
##	[22,]	0.0000000	0.2373677	0.0000000	0	0.2650296	0	0.2182808	0
##	[23,]	0.2394237	0.0000000	0.0000000	0	0.0000000	0	0.2316522	0
##	[24,]	0.2190355	0.2128139	0.0000000	0	0.3098718	0	0.1880095	0
##	[25,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[26,]	0.2626266	0.2239432	0.2721844	0	0.2700860	0	0.2400126	0
##	[27,]	0.0000000	0.0000000	0.2088541	0	0.0000000	0	0.0000000	0
##	[28,]	0.0000000	0.0000000	0.2602431	0	0.2278112	0	0.0000000	0
##	[29,]	0.2088541	0.2602431	0.0000000	0	0.0000000	0	0.0000000	0
##	[30,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[31,]	0.0000000	0.2278112	0.0000000	0	0.0000000	0	0.3135839	0
##	[32,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[33,]	0.0000000	0.0000000	0.0000000	0	0.3135839	0	0.0000000	0
##	[34,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[35,]	0.0000000	0.2661437	0.0000000	0	0.2197154	0	0.2308645	0
##	[36,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[37,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[38,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[39,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[40,]	0.3085925	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[41,]	0.2927110	0.0000000	0.2325916	0	0.2113014	0	0.2121022	0
##	[42,]	0.2554602	0.3442199	0.2643195	0	0.0000000	0	0.0000000	0
##	[43,]	0.2052293	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[44,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[45,]	0.0000000	0.1799242	0.2218010	0	0.0000000	0	0.0000000	0
##	[46,]	0.0000000	0.2753627	0.0000000	0	0.3146838	0	0.0000000	0
##	[47,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[48,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[49,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[50,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[51,]	0.0000000	0.0000000	0.0000000	0	0.2015060	0	0.2786684	0
##	[52,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[53,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[54,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.2434843	0
##	[55,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0

##	[56,]	0.3064486	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[57,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[58,]	0.0000000	0.2298440	0.0000000	0	0.2613249	0	0.3116348	0
##	[59,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[60,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[61,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[62,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[63,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[64,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[65,]	0.2547043	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[66,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[67,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[68,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[69,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[70,]	0.0000000	0.3028090	0.2684235	0	0.0000000	0	0.0000000	0
##	[71,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##		[,35]	[,36]	[,37]	[,38]	[,39]	[,40]	[,41]	[,42]
##	[1,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[2,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[4,]	0.4546678	0	0	0	0.0000000	0.0000000	0.3297954	0.1689728
##	[5,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[6,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[7,]	0.4877480	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[8,]	0.0000000	0	0	0	0.0000000	0.0000000	0.3467376	0.0000000
##	[9,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[10,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[11,]	0.0000000	0	0	0	0.1743011	0.2886875	0.2866443	0.3063938
##	[12,]	0.0000000	0	0	0	0.2865748	0.0000000	0.1791160	0.2307801
##	[13,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[14,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[16,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[17,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[18,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[19,]	0.2362288	0	0	0	0.0000000	0.0000000	0.0000000	0.2115818
##	[20,]	0.2981700	0	0	0	0.0000000	0.2155609	0.0000000	0.2331731
##	[21,]	0.0000000	0	0	0	0.0000000	0.2120381	0.3102666	0.0000000
##	[22,]	0.0000000	0	0	0	0.2273200	0.0000000	0.2820574	0.0000000
##	[23,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2202897	0.0000000
##	[24,]	0.0000000	0	0	0	0.0000000	0.2588860	0.2297830	0.2392223
##	[25,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[26,]	0.2406684	0	0	0	0.2549105	0.3102950	0.2504304	0.2713675
##	[27,]	0.0000000	0	0	0	0.0000000	0.3085925	0.2927110	0.2554602
##	[28,]	0.2661437	0	0	0	0.0000000	0.0000000	0.0000000	0.3442199
##	[29,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2325916	0.2643195
##	[30,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[31,]	0.2197154	0	0	0	0.0000000	0.0000000	0.2113014	0.0000000
##	[32,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[33,]	0.2308645	0	0	0	0.0000000	0.0000000	0.2121022	0.0000000
##	[34,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[35,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[36,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[37,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000

##	[38,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[39,]	0.0000000	0	0	0	0.0000000	0.2370764	0.2743144	0.2557494	
##	[40,]	0.0000000	0	0	0	0.2370764	0.0000000	0.2792762	0.2214820	
##	[41,]	0.0000000	0	0	0	0.2743144	0.2792762	0.0000000	0.2652569	
##	[42,]	0.0000000	0	0	0	0.2557494	0.2214820	0.2652569	0.0000000	
##	[43,]	0.0000000	0	0	0	0.0000000	0.2572849	0.2587247	0.0000000	
##	[44,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[45,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2800983	0.2977968	
##	[46,]	0.2511852	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[47,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[48,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[49,]	0.0000000	0	0	0	0.0000000	0.3356548	0.2183250	0.0000000	
##	[50,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[51,]	0.3269612	0	0	0	0.2299890	0.2749544	0.2796825	0.0000000	
##	[52,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[53,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[54,]	0.0000000	0	0	0	0.0000000	0.2630965	0.2448905	0.0000000	
##	[55,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[56,]	0.0000000	0	0	0	0.2267109	0.2250544	0.2735280	0.0000000	
##	[57,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[58,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[59,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[60,]	0.2819079	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[61,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[62,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[63,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[64,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[65,]	0.0000000	0	0	0	0.2417062	0.2846964	0.2369912	0.0000000	
##	[66,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[67,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[68,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[69,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[70,]	0.0000000	0	0	0	0.0000000	0.3191003	0.0000000	0.0000000	
##	[71,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##		[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]	[,50]	[,51]
##	[1,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[2,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[3,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[4,]	0.0000000	0	0.3937110	0.2467160	0	0	0.0000000	0	0.0000000
##	[5,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[6,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[7,]	0.0000000	0	0.0000000	0.2502366	0	0	0.0000000	0	0.0000000
##	[8,]	0.2567472	0	0.0000000	0.0000000	0	0	0.2864451	0	0.0000000
##	[9,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[10,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[11,]	0.3095615	0	0.0000000	0.3324884	0	0	0.2935457	0	0.0000000
##	[12,]	0.0000000	0	0.2785310	0.0000000	0	0	0.1727932	0	0.0000000
##	[13,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[14,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[15,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[16,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[17,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[18,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[19,]	0.2415041	0	0.1853850	0.2193592	0	0	0.0000000	0	0.0000000

##	[20,]	0.2259213	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[21,]	0.2628552	0	0.0000000	0.0000000	0	0	0.2688273	0	0.0000000
##	[22,]	0.0000000	0	0.0000000	0.0000000	0	0	0.2488821	0	0.2384598
##	[23,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[24,]	0.2496674	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[25,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[26,]	0.2739530	0	0.0000000	0.0000000	0	0	0.2764240	0	0.0000000
##	[27,]	0.2052293	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[28,]	0.0000000	0	0.1799242	0.2753627	0	0	0.0000000	0	0.0000000
##	[29,]	0.0000000	0	0.2218010	0.0000000	0	0	0.0000000	0	0.0000000
##	[30,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[31,]	0.0000000	0	0.0000000	0.3146838	0	0	0.0000000	0	0.2015060
##	[32,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[33,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2786684
##	[34,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[35,]	0.0000000	0	0.0000000	0.2511852	0	0	0.0000000	0	0.3269612
##	[36,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[37,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[38,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[39,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2299890
##	[40,]	0.2572849	0	0.0000000	0.0000000	0	0	0.3356548	0	0.2749544
##	[41,]	0.2587247	0	0.2800983	0.0000000	0	0	0.2183250	0	0.2796825
##	[42,]	0.0000000	0	0.2977968	0.0000000	0	0	0.0000000	0	0.0000000
##	[43,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2776653
##	[44,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[45,]	0.0000000	0	0.0000000	0.2710284	0	0	0.0000000	0	0.0000000
##	[46,]	0.0000000	0	0.2710284	0.0000000	0	0	0.0000000	0	0.0000000
##	[47,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[48,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[49,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2721467
##	[50,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[51,]	0.2776653	0	0.0000000	0.0000000	0	0	0.2721467	0	0.0000000
##	[52,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[53,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[54,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.3056505
##	[55,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[56,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2757987
##	[57,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[58,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2818260
##	[59,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[60,]	0.0000000	0	0.3495128	0.2475259	0	0	0.0000000	0	0.2619107
##	[61,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[62,]	0.0000000	0	0.2748471	0.0000000	0	0	0.0000000	0	0.0000000
##	[63,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[64,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[65,]	0.0000000	0	0.0000000	0.0000000	0	0	0.2517867	0	0.0000000
##	[66,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[67,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[68,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[69,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[70,]	0.0000000	0	0.2539627	0.0000000	0	0	0.0000000	0	0.0000000
##	[71,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##		[,52] [,53]		[,54] [,55]		[,56] [,57]		[,58] [,59]		[,60]
##	[1,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000



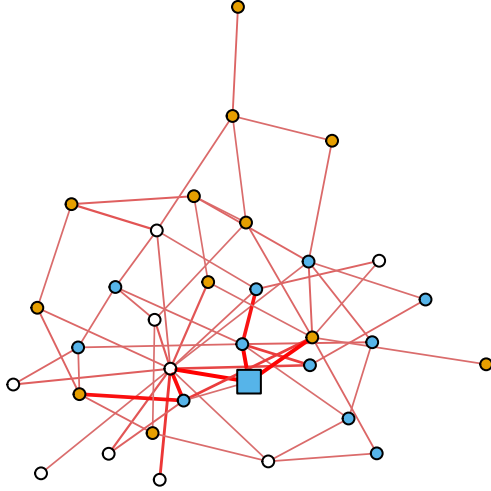
## [2,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [3,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [4,]	0	0	0 0.3022599	0 0.0000000	0 0.0000000	0 0.6773368
## [5,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [6,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [7,]	0	0	0 0.0000000	0 0.0000000	0 0.3497263	0 0.0000000
## [8,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.6593077
## [9,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [10,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [11,]	0	0	0 0.3452584	0 0.2555201	0 0.2907274	0 0.4911592
## [12,]	0	0	0 0.2383394	0 0.2123355	0 0.2488713	0 0.2269540
## [13,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [14,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [15,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [16,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [17,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [18,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [19,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.2711827
## [20,]	0	0	0 0.0000000	0 0.2613329	0 0.0000000	0 0.0000000
## [21,]	0	0	0 0.0000000	0 0.3598292	0 0.0000000	0 0.0000000
## [22,]	0	0	0 0.2670560	0 0.2979030	0 0.0000000	0 0.0000000
## [23,]	0	0	0 0.0000000	0 0.2247671	0 0.0000000	0 0.0000000
## [24,]	0	0	0 0.0000000	0 0.2898887	0 0.0000000	0 0.0000000
## [25,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [26,]	0	0	0 0.3229191	0 0.2759385	0 0.0000000	0 0.1967740
## [27,]	0	0	0 0.0000000	0 0.3064486	0 0.0000000	0 0.0000000
## [28,]	0	0	0 0.0000000	0 0.0000000	0 0.2298440	0 0.0000000
## [29,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [30,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [31,]	0	0	0 0.0000000	0 0.0000000	0 0.2613249	0 0.0000000
## [32,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [33,]	0	0	0 0.2434843	0 0.0000000	0 0.3116348	0 0.0000000
## [34,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [35,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.2819079
## [36,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [37,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [38,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [39,]	0	0	0 0.0000000	0 0.2267109	0 0.0000000	0 0.0000000
## [40,]	0	0	0 0.2630965	0 0.2250544	0 0.0000000	0 0.0000000
## [41,]	0	0	0 0.2448905	0 0.2735280	0 0.0000000	0 0.0000000
## [42,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [43,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [44,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [45,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.3495128
## [46,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.2475259
## [47,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [48,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [49,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [50,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [51,]	0	0	0 0.3056505	0 0.2757987	0 0.2818260	0 0.2619107
## [52,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [53,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000
## [54,]	0	0	0 0.0000000	0 0.3377972	0 0.3282855	0 0.0000000
## [55,]	0	0	0 0.0000000	0 0.0000000	0 0.0000000	0 0.0000000

##	[56,]	0	0	0.3377972	0	0.0000000	0	0.0000000	0	0.0000000
##	[57,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[58,]	0	0	0.3282855	0	0.0000000	0	0.0000000	0	0.0000000
##	[59,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[60,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[61,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.3023358
##	[62,]	0	0	0.0000000	0	0.3036693	0	0.0000000	0	0.2241849
##	[63,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[64,]	0	0	0.0000000	0	0.2359187	0	0.0000000	0	0.0000000
##	[65,]	0	0	0.2678229	0	0.2760283	0	0.2605539	0	0.0000000
##	[66,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[67,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[68,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[69,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[70,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[71,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##		[,61]	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]
##	[1,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[2,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[3,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[4,]	0.7176938	0.3947597	0	0.2151021	0.2437667	0	0	0	0
##	[5,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[6,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[7,]	0.7079936	0.0000000	0	0.3198942	0.0000000	0	0	0	0
##	[8,]	0.0000000	0.0000000	0	0.3180277	0.2208083	0	0	0	0
##	[9,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[10,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[11,]	0.7014222	0.3020235	0	0.0000000	0.2644061	0	0	0	0
##	[12,]	0.0000000	0.2805074	0	0.2860230	0.0000000	0	0	0	0
##	[13,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[14,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[15,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[16,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[17,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[18,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[19,]	0.0000000	0.0000000	0	0.3152603	0.0000000	0	0	0	0
##	[20,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[21,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[22,]	0.0000000	0.0000000	0	0.3321238	0.2110425	0	0	0	0
##	[23,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[24,]	0.0000000	0.0000000	0	0.2119307	0.2486681	0	0	0	0
##	[25,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[26,]	0.0000000	0.2107251	0	0.0000000	0.2835620	0	0	0	0
##	[27,]	0.0000000	0.0000000	0	0.0000000	0.2547043	0	0	0	0
##	[28,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[29,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[30,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[31,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[32,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[33,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[34,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[35,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[36,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[37,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0

##	[38,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[39,]	0.0000000	0.0000000	0	0.0000000	0.2417062	0	0	0	0
##	[40,]	0.0000000	0.0000000	0	0.0000000	0.2846964	0	0	0	0
##	[41,]	0.0000000	0.0000000	0	0.0000000	0.2369912	0	0	0	0
##	[42,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[43,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[44,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[45,]	0.0000000	0.2748471	0	0.0000000	0.0000000	0	0	0	0
##	[46,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[47,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[48,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[49,]	0.0000000	0.0000000	0	0.0000000	0.2517867	0	0	0	0
##	[50,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[51,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[52,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[53,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[54,]	0.0000000	0.0000000	0	0.0000000	0.2678229	0	0	0	0
##	[55,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[56,]	0.0000000	0.3036693	0	0.2359187	0.2760283	0	0	0	0
##	[57,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[58,]	0.0000000	0.0000000	0	0.0000000	0.2605539	0	0	0	0
##	[59,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[60,]	0.3023358	0.2241849	0	0.0000000	0.0000000	0	0	0	0
##	[61,]	0.0000000	0.0000000	0	0.2113784	0.0000000	0	0	0	0
##	[62,]	0.0000000	0.0000000	0	0.2600498	0.2539647	0	0	0	0
##	[63,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[64,]	0.2113784	0.2600498	0	0.0000000	0.2595966	0	0	0	0
##	[65,]	0.0000000	0.2539647	0	0.2595966	0.0000000	0	0	0	0
##	[66,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[67,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[68,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[69,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[70,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[71,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##			[,70] [,71]							
##	[1,]	0.0000000	0							
##	[2,]	0.0000000	0							
##	[3,]	0.0000000	0							
##	[4,]	0.3252325	0							
##	[5,]	0.0000000	0							
##	[6,]	0.0000000	0							
##	[7,]	0.0000000	0							
##	[8,]	0.0000000	0							
##	[9,]	0.0000000	0							
##	[10,]	0.0000000	0							
##	[11,]	0.2481163	0							
##	[12,]	0.0000000	0							
##	[13,]	0.0000000	0							
##	[14,]	0.0000000	0							
##	[15,]	0.0000000	0							
##	[16,]	0.0000000	0							
##	[17,]	0.0000000	0							
##	[18,]	0.0000000	0							
##	[19,]	0.3194205	0							

##	[20,]	0.0000000	0
##	[21,]	0.4003847	0
##	[22,]	0.0000000	0
##	[23,]	0.0000000	0
##	[24,]	0.0000000	0
##	[25,]	0.0000000	0
##	[26,]	0.0000000	0
##	[27,]	0.0000000	0
##	[28,]	0.3028090	0
##	[29,]	0.2684235	0
##	[30,]	0.0000000	0
##	[31,]	0.0000000	0
##	[32,]	0.0000000	0
##	[33,]	0.0000000	0
##	[34,]	0.0000000	0
##	[35,]	0.0000000	0
##	[36,]	0.0000000	0
##	[37,]	0.0000000	0
##	[38,]	0.0000000	0
##	[39,]	0.0000000	0
##	[40,]	0.3191003	0
##	[41,]	0.0000000	0
##	[42,]	0.0000000	0
##	[43,]	0.0000000	0
##	[44,]	0.0000000	0
##	[45,]	0.2539627	0
##	[46,]	0.0000000	0
##	[47,]	0.0000000	0
##	[48,]	0.0000000	0
##	[49,]	0.0000000	0
##	[50,]	0.0000000	0
##	[51,]	0.0000000	0
##	[52,]	0.0000000	0
##	[53,]	0.0000000	0
##	[54,]	0.0000000	0
##	[55,]	0.0000000	0
##	[56,]	0.0000000	0
##	[57,]	0.0000000	0
##	[58,]	0.0000000	0
##	[59,]	0.0000000	0
##	[60,]	0.0000000	0
##	[61,]	0.0000000	0
##	[62,]	0.0000000	0
##	[63,]	0.0000000	0
##	[64,]	0.0000000	0
##	[65,]	0.0000000	0
##	[66,]	0.0000000	0
##	[67,]	0.0000000	0
##	[68,]	0.0000000	0
##	[69,]	0.0000000	0
##	[70,]	0.0000000	0
##	[71,]	0.0000000	0

```
vis.motif(motif.graphs,60L,c1,threshold=0.3, weight.scaling.factor = 2., important.node.size=10)
```



##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]
##	[1,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[2,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[3,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[4,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[5,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[6,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[7,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[8,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[9,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[10,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[11,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[12,]	0	0	0	0.5103825	0	0	0.0000000	0.1977808	0	0
##	[13,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[14,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[15,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[16,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[17,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[18,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[19,]	0	0	0	0.2005751	0	0	0.3248181	0.0000000	0	0
##	[20,]	0	0	0	0.3815714	0	0	0.0000000	0.0000000	0	0
##	[21,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[22,]	0	0	0	0.3636633	0	0	0.0000000	0.0000000	0	0
##	[23,]	0	0	0	0.2633630	0	0	0.0000000	0.2294227	0	0
##	[24,]	0	0	0	0.0000000	0	0	0.0000000	0.3317530	0	0
##	[25,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[26,]	0	0	0	0.2028552	0	0	0.0000000	0.1991068	0	0
##	[27,]	0	0	0	0.2027553	0	0	0.0000000	0.0000000	0	0
##	[28,]	0	0	0	0.3216766	0	0	0.6437092	0.0000000	0	0
##	[29,]	0	0	0	0.3052002	0	0	0.0000000	0.0000000	0	0
##	[30,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[31,]	0	0	0	0.3016152	0	0	0.0000000	0.0000000	0	0
##	[32,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[33,]	0	0	0	0.0000000	0	0	0.3031654	0.0000000	0	0
##	[34,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[35,]	0	0	0	0.4546678	0	0	0.4877480	0.0000000	0	0

## [36,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [37,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [38,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [39,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [40,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [41,]	0	0	0	0.3297954	0	0	0.0000000	0.3467376	0	0
## [42,]	0	0	0	0.1689728	0	0	0.0000000	0.0000000	0	0
## [43,]	0	0	0	0.0000000	0	0	0.0000000	0.2567472	0	0
## [44,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [45,]	0	0	0	0.3937110	0	0	0.0000000	0.0000000	0	0
## [46,]	0	0	0	0.2467160	0	0	0.2502366	0.0000000	0	0
## [47,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [48,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [49,]	0	0	0	0.0000000	0	0	0.0000000	0.2864451	0	0
## [50,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [51,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [52,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [53,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [54,]	0	0	0	0.3022599	0	0	0.0000000	0.0000000	0	0
## [55,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [56,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [57,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [58,]	0	0	0	0.0000000	0	0	0.3497263	0.0000000	0	0
## [59,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [60,]	0	0	0	0.6773368	0	0	0.0000000	0.6593077	0	0
## [61,]	0	0	0	0.7176938	0	0	0.7079936	0.0000000	0	0
## [62,]	0	0	0	0.3947597	0	0	0.0000000	0.0000000	0	0
## [63,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [64,]	0	0	0	0.2151021	0	0	0.3198942	0.3180277	0	0
## [65,]	0	0	0	0.2437667	0	0	0.0000000	0.2208083	0	0
## [66,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [67,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [68,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [69,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [70,]	0	0	0	0.3252325	0	0	0.0000000	0.0000000	0	0
## [71,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[,11] [,12] [,13] [,14] [,15] [,16] [,17] [,18] [,19]									
## [1,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [2,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [3,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [4,]	0.0000000	0.5103825	0	0	0	0	0	0	0.2005751	
## [5,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [6,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [7,]	0.0000000	0.0000000	0	0	0	0	0	0	0.3248181	
## [8,]	0.0000000	0.1977808	0	0	0	0	0	0	0.0000000	
## [9,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [10,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [11,]	0.0000000	0.2811724	0	0	0	0	0	0	0.0000000	
## [12,]	0.2811724	0.0000000	0	0	0	0	0	0	0.2539043	
## [13,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [14,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [15,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [16,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
## [17,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	

##	[18,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[19,]	0.0000000	0.2539043	0	0	0	0	0	0	0.0000000
##	[20,]	0.0000000	0.0000000	0	0	0	0	0	0	0.3235118
##	[21,]	0.2882331	0.0000000	0	0	0	0	0	0	0.2368854
##	[22,]	0.0000000	0.0000000	0	0	0	0	0	0	0.2705620
##	[23,]	0.2459572	0.0000000	0	0	0	0	0	0	0.0000000
##	[24,]	0.2026288	0.2916121	0	0	0	0	0	0	0.2449004
##	[25,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[26,]	0.2192775	0.2253955	0	0	0	0	0	0	0.2677480
##	[27,]	0.3321554	0.2409098	0	0	0	0	0	0	0.0000000
##	[28,]	0.0000000	0.2715887	0	0	0	0	0	0	0.2962017
##	[29,]	0.0000000	0.2773380	0	0	0	0	0	0	0.2450488
##	[30,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[31,]	0.0000000	0.1921298	0	0	0	0	0	0	0.0000000
##	[32,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[33,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[34,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[35,]	0.0000000	0.0000000	0	0	0	0	0	0	0.2362288
##	[36,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[37,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[38,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[39,]	0.1743011	0.2865748	0	0	0	0	0	0	0.0000000
##	[40,]	0.2886875	0.0000000	0	0	0	0	0	0	0.0000000
##	[41,]	0.2866443	0.1791160	0	0	0	0	0	0	0.0000000
##	[42,]	0.3063938	0.2307801	0	0	0	0	0	0	0.2115818
##	[43,]	0.3095615	0.0000000	0	0	0	0	0	0	0.2415041
##	[44,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[45,]	0.0000000	0.2785310	0	0	0	0	0	0	0.1853850
##	[46,]	0.3324884	0.0000000	0	0	0	0	0	0	0.2193592
##	[47,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[48,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[49,]	0.2935457	0.1727932	0	0	0	0	0	0	0.0000000
##	[50,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[51,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[52,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[53,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[54,]	0.3452584	0.2383394	0	0	0	0	0	0	0.0000000
##	[55,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[56,]	0.2555201	0.2123355	0	0	0	0	0	0	0.0000000
##	[57,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[58,]	0.2907274	0.2488713	0	0	0	0	0	0	0.0000000
##	[59,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[60,]	0.4911592	0.2269540	0	0	0	0	0	0	0.2711827
##	[61,]	0.7014222	0.0000000	0	0	0	0	0	0	0.0000000
##	[62,]	0.3020235	0.2805074	0	0	0	0	0	0	0.0000000
##	[63,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[64,]	0.0000000	0.2860230	0	0	0	0	0	0	0.3152603
##	[65,]	0.2644061	0.0000000	0	0	0	0	0	0	0.0000000
##	[66,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[67,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[68,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[69,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[70,]	0.2481163	0.0000000	0	0	0	0	0	0	0.3194205
##	[71,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000

##		[,20]	[,21]	[,22]	[,23]	[,24]	[,25]	[,26]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[4,]	0.3815714	0.0000000	0.3636633	0.2633630	0.0000000	0	0.2028552
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[8,]	0.0000000	0.0000000	0.0000000	0.2294227	0.3317530	0	0.1991068
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[11,]	0.0000000	0.2882331	0.0000000	0.2459572	0.2026288	0	0.2192775
##	[12,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2916121	0	0.2253955
##	[13,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[19,]	0.3235118	0.2368854	0.2705620	0.0000000	0.2449004	0	0.2677480
##	[20,]	0.0000000	0.2772487	0.2603617	0.2909230	0.3025936	0	0.2591941
##	[21,]	0.2772487	0.0000000	0.0000000	0.0000000	0.2354474	0	0.2332115
##	[22,]	0.2603617	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2108082
##	[23,]	0.2909230	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[24,]	0.3025936	0.2354474	0.0000000	0.0000000	0.0000000	0	0.2659640
##	[25,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[26,]	0.2591941	0.2332115	0.2108082	0.0000000	0.2659640	0	0.0000000
##	[27,]	0.3033522	0.2736925	0.0000000	0.2394237	0.2190355	0	0.2626266
##	[28,]	0.0000000	0.0000000	0.2373677	0.0000000	0.2128139	0	0.2239432
##	[29,]	0.2191070	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2721844
##	[30,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[31,]	0.2743660	0.2813255	0.2650296	0.0000000	0.3098718	0	0.2700860
##	[32,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[33,]	0.0000000	0.2835529	0.2182808	0.2316522	0.1880095	0	0.2400126
##	[34,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[35,]	0.2981700	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2406684
##	[36,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[37,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[38,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[39,]	0.0000000	0.0000000	0.2273200	0.0000000	0.0000000	0	0.2549105
##	[40,]	0.2155609	0.2120381	0.0000000	0.0000000	0.2588860	0	0.3102950
##	[41,]	0.0000000	0.3102666	0.2820574	0.2202897	0.2297830	0	0.2504304
##	[42,]	0.2331731	0.0000000	0.0000000	0.0000000	0.2392223	0	0.2713675
##	[43,]	0.2259213	0.2628552	0.0000000	0.0000000	0.2496674	0	0.2739530
##	[44,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[45,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[46,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[47,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[48,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[49,]	0.0000000	0.2688273	0.2488821	0.0000000	0.0000000	0	0.2764240
##	[50,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[51,]	0.0000000	0.0000000	0.2384598	0.0000000	0.0000000	0	0.0000000
##	[52,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000



##	[54,]	0.0000000	0.0000000	0.2670560	0.0000000	0.0000000	0	0.3229191
##	[55,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[56,]	0.2613329	0.3598292	0.2979030	0.2247671	0.2898887	0	0.2759385
##	[57,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[58,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[59,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[60,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.1967740
##	[61,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[62,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2107251
##	[63,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[64,]	0.0000000	0.0000000	0.3321238	0.0000000	0.2119307	0	0.0000000
##	[65,]	0.0000000	0.0000000	0.2110425	0.0000000	0.2486681	0	0.2835620
##	[66,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[67,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[68,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[69,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[70,]	0.0000000	0.4003847	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[71,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##		[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33] [,34]
##	[1,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[2,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[3,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[4,]	0.2027553	0.3216766	0.3052002	0	0.3016152	0	0.0000000
##	[5,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[6,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[7,]	0.0000000	0.6437092	0.0000000	0	0.0000000	0	0.3031654
##	[8,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[9,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[10,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[11,]	0.3321554	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[12,]	0.2409098	0.2715887	0.2773380	0	0.1921298	0	0.0000000
##	[13,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[14,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[15,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[16,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[17,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[19,]	0.0000000	0.2962017	0.2450488	0	0.0000000	0	0.0000000
##	[20,]	0.3033522	0.0000000	0.2191070	0	0.2743660	0	0.0000000
##	[21,]	0.2736925	0.0000000	0.0000000	0	0.2813255	0	0.2835529
##	[22,]	0.0000000	0.2373677	0.0000000	0	0.2650296	0	0.2182808
##	[23,]	0.2394237	0.0000000	0.0000000	0	0.0000000	0	0.2316522
##	[24,]	0.2190355	0.2128139	0.0000000	0	0.3098718	0	0.1880095
##	[25,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[26,]	0.2626266	0.2239432	0.2721844	0	0.2700860	0	0.2400126
##	[27,]	0.0000000	0.0000000	0.2088541	0	0.0000000	0	0.0000000
##	[28,]	0.0000000	0.0000000	0.2602431	0	0.2278112	0	0.0000000
##	[29,]	0.2088541	0.2602431	0.0000000	0	0.0000000	0	0.0000000
##	[30,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[31,]	0.0000000	0.2278112	0.0000000	0	0.0000000	0	0.3135839
##	[32,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[33,]	0.0000000	0.0000000	0.0000000	0	0.3135839	0	0.0000000
##	[34,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000
##	[35,]	0.0000000	0.2661437	0.0000000	0	0.2197154	0	0.2308645

##	[36,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[37,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[38,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[39,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[40,]	0.3085925	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[41,]	0.2927110	0.0000000	0.2325916	0	0.2113014	0	0.2121022	0
##	[42,]	0.2554602	0.3442199	0.2643195	0	0.0000000	0	0.0000000	0
##	[43,]	0.2052293	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[44,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[45,]	0.0000000	0.1799242	0.2218010	0	0.0000000	0	0.0000000	0
##	[46,]	0.0000000	0.2753627	0.0000000	0	0.3146838	0	0.0000000	0
##	[47,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[48,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[49,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[50,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[51,]	0.0000000	0.0000000	0.0000000	0	0.2015060	0	0.2786684	0
##	[52,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[53,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[54,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.2434843	0
##	[55,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[56,]	0.3064486	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[57,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[58,]	0.0000000	0.2298440	0.0000000	0	0.2613249	0	0.3116348	0
##	[59,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[60,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[61,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[62,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[63,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[64,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[65,]	0.2547043	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[66,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[67,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[68,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[69,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[70,]	0.0000000	0.3028090	0.2684235	0	0.0000000	0	0.0000000	0
##	[71,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##		[,35]	[,36]	[,37]	[,38]	[,39]	[,40]	[,41]	[,42]
##	[1,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[2,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[4,]	0.4546678	0	0	0	0.0000000	0.0000000	0.3297954	0.1689728
##	[5,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[6,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[7,]	0.4877480	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[8,]	0.0000000	0	0	0	0.0000000	0.0000000	0.3467376	0.0000000
##	[9,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[10,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[11,]	0.0000000	0	0	0	0.1743011	0.2886875	0.2866443	0.3063938
##	[12,]	0.0000000	0	0	0	0.2865748	0.0000000	0.1791160	0.2307801
##	[13,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[14,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[16,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[17,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000

## [18,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [19,]	0.2362288	0	0	0 0.0000000	0.0000000	0.0000000	0.2115818
## [20,]	0.2981700	0	0	0 0.0000000	0.2155609	0.0000000	0.2331731
## [21,]	0.0000000	0	0	0 0.0000000	0.2120381	0.3102666	0.0000000
## [22,]	0.0000000	0	0	0 0.2273200	0.0000000	0.2820574	0.0000000
## [23,]	0.0000000	0	0	0 0.0000000	0.0000000	0.2202897	0.0000000
## [24,]	0.0000000	0	0	0 0.0000000	0.2588860	0.2297830	0.2392223
## [25,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [26,]	0.2406684	0	0	0 0.2549105	0.3102950	0.2504304	0.2713675
## [27,]	0.0000000	0	0	0 0.0000000	0.3085925	0.2927110	0.2554602
## [28,]	0.2661437	0	0	0 0.0000000	0.0000000	0.0000000	0.3442199
## [29,]	0.0000000	0	0	0 0.0000000	0.0000000	0.2325916	0.2643195
## [30,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [31,]	0.2197154	0	0	0 0.0000000	0.0000000	0.2113014	0.0000000
## [32,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [33,]	0.2308645	0	0	0 0.0000000	0.0000000	0.2121022	0.0000000
## [34,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [35,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [36,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [37,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [38,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [39,]	0.0000000	0	0	0 0.0000000	0.2370764	0.2743144	0.2557494
## [40,]	0.0000000	0	0	0 0.2370764	0.0000000	0.2792762	0.2214820
## [41,]	0.0000000	0	0	0 0.2743144	0.2792762	0.0000000	0.2652569
## [42,]	0.0000000	0	0	0 0.2557494	0.2214820	0.2652569	0.0000000
## [43,]	0.0000000	0	0	0 0.0000000	0.2572849	0.2587247	0.0000000
## [44,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [45,]	0.0000000	0	0	0 0.0000000	0.0000000	0.2800983	0.2977968
## [46,]	0.2511852	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [47,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [48,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [49,]	0.0000000	0	0	0 0.0000000	0.3356548	0.2183250	0.0000000
## [50,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [51,]	0.3269612	0	0	0 0.2299890	0.2749544	0.2796825	0.0000000
## [52,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [53,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [54,]	0.0000000	0	0	0 0.0000000	0.2630965	0.2448905	0.0000000
## [55,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [56,]	0.0000000	0	0	0 0.2267109	0.2250544	0.2735280	0.0000000
## [57,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [58,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [59,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [60,]	0.2819079	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [61,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [62,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [63,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [64,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [65,]	0.0000000	0	0	0 0.2417062	0.2846964	0.2369912	0.0000000
## [66,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [67,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [68,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [69,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000
## [70,]	0.0000000	0	0	0 0.0000000	0.3191003	0.0000000	0.0000000
## [71,]	0.0000000	0	0	0 0.0000000	0.0000000	0.0000000	0.0000000

##		[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]	[,50]	[,51]
##	[1,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[2,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[3,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[4,]	0.0000000	0	0.3937110	0.2467160	0	0	0.0000000	0	0.0000000
##	[5,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[6,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[7,]	0.0000000	0	0.0000000	0.2502366	0	0	0.0000000	0	0.0000000
##	[8,]	0.2567472	0	0.0000000	0.0000000	0	0	0.2864451	0	0.0000000
##	[9,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[10,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[11,]	0.3095615	0	0.0000000	0.3324884	0	0	0.2935457	0	0.0000000
##	[12,]	0.0000000	0	0.2785310	0.0000000	0	0	0.1727932	0	0.0000000
##	[13,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[14,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[15,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[16,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[17,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[18,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[19,]	0.2415041	0	0.1853850	0.2193592	0	0	0.0000000	0	0.0000000
##	[20,]	0.2259213	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[21,]	0.2628552	0	0.0000000	0.0000000	0	0	0.2688273	0	0.0000000
##	[22,]	0.0000000	0	0.0000000	0.0000000	0	0	0.2488821	0	0.2384598
##	[23,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[24,]	0.2496674	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[25,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[26,]	0.2739530	0	0.0000000	0.0000000	0	0	0.2764240	0	0.0000000
##	[27,]	0.2052293	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[28,]	0.0000000	0	0.1799242	0.2753627	0	0	0.0000000	0	0.0000000
##	[29,]	0.0000000	0	0.2218010	0.0000000	0	0	0.0000000	0	0.0000000
##	[30,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[31,]	0.0000000	0	0.0000000	0.3146838	0	0	0.0000000	0	0.2015060
##	[32,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[33,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2786684
##	[34,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[35,]	0.0000000	0	0.0000000	0.2511852	0	0	0.0000000	0	0.3269612
##	[36,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[37,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[38,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[39,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2299890
##	[40,]	0.2572849	0	0.0000000	0.0000000	0	0	0.3356548	0	0.2749544
##	[41,]	0.2587247	0	0.2800983	0.0000000	0	0	0.2183250	0	0.2796825
##	[42,]	0.0000000	0	0.2977968	0.0000000	0	0	0.0000000	0	0.0000000
##	[43,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2776653
##	[44,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[45,]	0.0000000	0	0.0000000	0.2710284	0	0	0.0000000	0	0.0000000
##	[46,]	0.0000000	0	0.2710284	0.0000000	0	0	0.0000000	0	0.0000000
##	[47,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[48,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[49,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2721467
##	[50,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[51,]	0.2776653	0	0.0000000	0.0000000	0	0	0.2721467	0	0.0000000
##	[52,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[53,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000

##	[54,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.3056505				
##	[55,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[56,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2757987				
##	[57,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[58,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2818260				
##	[59,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[60,]	0.0000000	0	0.3495128	0.2475259	0	0	0.0000000	0	0.2619107				
##	[61,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[62,]	0.0000000	0	0.2748471	0.0000000	0	0	0.0000000	0	0.0000000				
##	[63,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[64,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[65,]	0.0000000	0	0.0000000	0.0000000	0	0	0.2517867	0	0.0000000				
##	[66,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[67,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[68,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[69,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##	[70,]	0.0000000	0	0.2539627	0.0000000	0	0	0.0000000	0	0.0000000				
##	[71,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000				
##		[,52]	[,53]		[,54]	[,55]		[,56]	[,57]		[,58]	[,59]		[,60]
##	[1,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[2,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[3,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[4,]	0	0	0.3022599	0	0.0000000	0	0.0000000	0	0.0000000	0	0.6773368	0	0.0000000
##	[5,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[6,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[7,]	0	0	0.0000000	0	0.0000000	0	0.3497263	0	0.0000000	0	0.0000000	0	0.0000000
##	[8,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.6593077	0	0.0000000
##	[9,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[10,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[11,]	0	0	0.3452584	0	0.2555201	0	0.2907274	0	0.0000000	0	0.4911592	0	0.0000000
##	[12,]	0	0	0.2383394	0	0.2123355	0	0.2488713	0	0.0000000	0	0.2269540	0	0.0000000
##	[13,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[14,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[15,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[16,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[17,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[18,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[19,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2711827	0	0.0000000
##	[20,]	0	0	0.0000000	0	0.2613329	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[21,]	0	0	0.0000000	0	0.3598292	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[22,]	0	0	0.2670560	0	0.2979030	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[23,]	0	0	0.0000000	0	0.2247671	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[24,]	0	0	0.0000000	0	0.2898887	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[25,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[26,]	0	0	0.3229191	0	0.2759385	0	0.0000000	0	0.0000000	0	0.1967740	0	0.0000000
##	[27,]	0	0	0.0000000	0	0.3064486	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[28,]	0	0	0.0000000	0	0.0000000	0	0.2298440	0	0.0000000	0	0.0000000	0	0.0000000
##	[29,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[30,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[31,]	0	0	0.0000000	0	0.0000000	0	0.2613249	0	0.0000000	0	0.0000000	0	0.0000000
##	[32,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[33,]	0	0	0.2434843	0	0.0000000	0	0.3116348	0	0.0000000	0	0.0000000	0	0.0000000
##	[34,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[35,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2819079	0	0.0000000

## [36,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [37,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [38,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [39,]	0	0	0.0000000	0	0.2267109	0	0.0000000	0	0.0000000
## [40,]	0	0	0.2630965	0	0.2250544	0	0.0000000	0	0.0000000
## [41,]	0	0	0.2448905	0	0.2735280	0	0.0000000	0	0.0000000
## [42,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [43,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [44,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [45,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.3495128
## [46,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2475259
## [47,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [48,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [49,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [50,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [51,]	0	0	0.3056505	0	0.2757987	0	0.2818260	0	0.2619107
## [52,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [53,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [54,]	0	0	0.0000000	0	0.3377972	0	0.3282855	0	0.0000000
## [55,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [56,]	0	0	0.3377972	0	0.0000000	0	0.0000000	0	0.0000000
## [57,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [58,]	0	0	0.3282855	0	0.0000000	0	0.0000000	0	0.0000000
## [59,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [60,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [61,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.3023358
## [62,]	0	0	0.0000000	0	0.3036693	0	0.0000000	0	0.2241849
## [63,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [64,]	0	0	0.0000000	0	0.2359187	0	0.0000000	0	0.0000000
## [65,]	0	0	0.2678229	0	0.2760283	0	0.2605539	0	0.0000000
## [66,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [67,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [68,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [69,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [70,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [71,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##									
		[,61]	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68] [,69]
## [1,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [2,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [3,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [4,]	0.7176938	0.3947597	0	0.2151021	0.2437667	0	0	0	0
## [5,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [6,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [7,]	0.7079936	0.0000000	0	0.3198942	0.0000000	0	0	0	0
## [8,]	0.0000000	0.0000000	0	0.3180277	0.2208083	0	0	0	0
## [9,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [10,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [11,]	0.7014222	0.3020235	0	0.0000000	0.2644061	0	0	0	0
## [12,]	0.0000000	0.2805074	0	0.2860230	0.0000000	0	0	0	0
## [13,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [14,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [15,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [16,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [17,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0

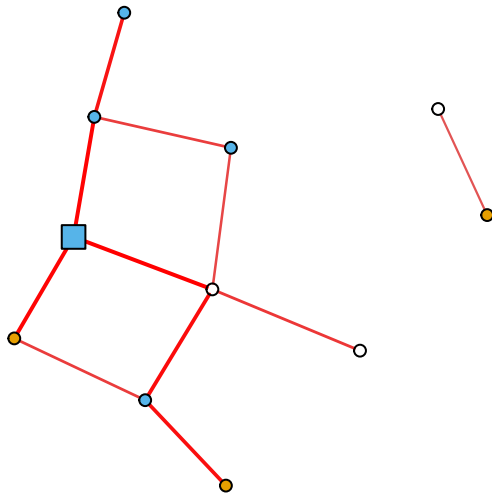
## [18,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [19,]	0.0000000	0.0000000	0	0.3152603	0.0000000	0	0	0	0
## [20,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [21,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [22,]	0.0000000	0.0000000	0	0.3321238	0.2110425	0	0	0	0
## [23,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [24,]	0.0000000	0.0000000	0	0.2119307	0.2486681	0	0	0	0
## [25,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [26,]	0.0000000	0.2107251	0	0.0000000	0.2835620	0	0	0	0
## [27,]	0.0000000	0.0000000	0	0.0000000	0.2547043	0	0	0	0
## [28,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [29,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [30,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [31,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [32,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [33,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [34,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [35,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [36,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [37,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [38,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [39,]	0.0000000	0.0000000	0	0.0000000	0.2417062	0	0	0	0
## [40,]	0.0000000	0.0000000	0	0.0000000	0.2846964	0	0	0	0
## [41,]	0.0000000	0.0000000	0	0.0000000	0.2369912	0	0	0	0
## [42,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [43,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [44,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [45,]	0.0000000	0.2748471	0	0.0000000	0.0000000	0	0	0	0
## [46,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [47,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [48,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [49,]	0.0000000	0.0000000	0	0.0000000	0.2517867	0	0	0	0
## [50,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [51,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [52,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [53,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [54,]	0.0000000	0.0000000	0	0.0000000	0.2678229	0	0	0	0
## [55,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [56,]	0.0000000	0.3036693	0	0.2359187	0.2760283	0	0	0	0
## [57,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [58,]	0.0000000	0.0000000	0	0.0000000	0.2605539	0	0	0	0
## [59,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [60,]	0.3023358	0.2241849	0	0.0000000	0.0000000	0	0	0	0
## [61,]	0.0000000	0.0000000	0	0.2113784	0.0000000	0	0	0	0
## [62,]	0.0000000	0.0000000	0	0.2600498	0.2539647	0	0	0	0
## [63,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [64,]	0.2113784	0.2600498	0	0.0000000	0.2595966	0	0	0	0
## [65,]	0.0000000	0.2539647	0	0.2595966	0.0000000	0	0	0	0
## [66,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [67,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [68,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [69,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [70,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [71,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0

##		[,70]	[,71]
##	[1,]	0.0000000	0
##	[2,]	0.0000000	0
##	[3,]	0.0000000	0
##	[4,]	0.3252325	0
##	[5,]	0.0000000	0
##	[6,]	0.0000000	0
##	[7,]	0.0000000	0
##	[8,]	0.0000000	0
##	[9,]	0.0000000	0
##	[10,]	0.0000000	0
##	[11,]	0.2481163	0
##	[12,]	0.0000000	0
##	[13,]	0.0000000	0
##	[14,]	0.0000000	0
##	[15,]	0.0000000	0
##	[16,]	0.0000000	0
##	[17,]	0.0000000	0
##	[18,]	0.0000000	0
##	[19,]	0.3194205	0
##	[20,]	0.0000000	0
##	[21,]	0.4003847	0
##	[22,]	0.0000000	0
##	[23,]	0.0000000	0
##	[24,]	0.0000000	0
##	[25,]	0.0000000	0
##	[26,]	0.0000000	0
##	[27,]	0.0000000	0
##	[28,]	0.3028090	0
##	[29,]	0.2684235	0
##	[30,]	0.0000000	0
##	[31,]	0.0000000	0
##	[32,]	0.0000000	0
##	[33,]	0.0000000	0
##	[34,]	0.0000000	0
##	[35,]	0.0000000	0
##	[36,]	0.0000000	0
##	[37,]	0.0000000	0
##	[38,]	0.0000000	0
##	[39,]	0.0000000	0
##	[40,]	0.3191003	0
##	[41,]	0.0000000	0
##	[42,]	0.0000000	0
##	[43,]	0.0000000	0
##	[44,]	0.0000000	0
##	[45,]	0.2539627	0
##	[46,]	0.0000000	0
##	[47,]	0.0000000	0
##	[48,]	0.0000000	0
##	[49,]	0.0000000	0
##	[50,]	0.0000000	0
##	[51,]	0.0000000	0
##	[52,]	0.0000000	0
##	[53,]	0.0000000	0



```
## [54,] 0.0000000 0
## [55,] 0.0000000 0
## [56,] 0.0000000 0
## [57,] 0.0000000 0
## [58,] 0.0000000 0
## [59,] 0.0000000 0
## [60,] 0.0000000 0
## [61,] 0.0000000 0
## [62,] 0.0000000 0
## [63,] 0.0000000 0
## [64,] 0.0000000 0
## [65,] 0.0000000 0
## [66,] 0.0000000 0
## [67,] 0.0000000 0
## [68,] 0.0000000 0
## [69,] 0.0000000 0
## [70,] 0.0000000 0
## [71,] 0.0000000 0
```

```
vis.motif(motif.graphs,60L,c1,threshold=0.4, weight.scaling.factor = 2., important.node.size=10)
```



##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]
##	[1,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[2,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[3,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[4,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[5,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[6,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[7,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[8,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[9,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[10,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[11,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[12,]	0	0	0	0.5103825	0	0	0.0000000	0.1977808	0	0
##	[13,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[14,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[15,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[16,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[17,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0

## [18,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [19,]	0	0	0 0.2005751	0	0 0.3248181	0.0000000	0	0
## [20,]	0	0	0 0.3815714	0	0 0.0000000	0.0000000	0	0
## [21,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [22,]	0	0	0 0.3636633	0	0 0.0000000	0.0000000	0	0
## [23,]	0	0	0 0.2633630	0	0 0.0000000	0.2294227	0	0
## [24,]	0	0	0 0.0000000	0	0 0.0000000	0.3317530	0	0
## [25,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [26,]	0	0	0 0.2028552	0	0 0.0000000	0.1991068	0	0
## [27,]	0	0	0 0.2027553	0	0 0.0000000	0.0000000	0	0
## [28,]	0	0	0 0.3216766	0	0 0.6437092	0.0000000	0	0
## [29,]	0	0	0 0.3052002	0	0 0.0000000	0.0000000	0	0
## [30,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [31,]	0	0	0 0.3016152	0	0 0.0000000	0.0000000	0	0
## [32,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [33,]	0	0	0 0.0000000	0	0 0.3031654	0.0000000	0	0
## [34,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [35,]	0	0	0 0.4546678	0	0 0.4877480	0.0000000	0	0
## [36,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [37,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [38,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [39,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [40,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [41,]	0	0	0 0.3297954	0	0 0.0000000	0.3467376	0	0
## [42,]	0	0	0 0.1689728	0	0 0.0000000	0.0000000	0	0
## [43,]	0	0	0 0.0000000	0	0 0.0000000	0.2567472	0	0
## [44,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [45,]	0	0	0 0.3937110	0	0 0.0000000	0.0000000	0	0
## [46,]	0	0	0 0.2467160	0	0 0.2502366	0.0000000	0	0
## [47,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [48,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [49,]	0	0	0 0.0000000	0	0 0.0000000	0.2864451	0	0
## [50,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [51,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [52,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [53,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [54,]	0	0	0 0.3022599	0	0 0.0000000	0.0000000	0	0
## [55,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [56,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [57,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [58,]	0	0	0 0.0000000	0	0 0.3497263	0.0000000	0	0
## [59,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [60,]	0	0	0 0.6773368	0	0 0.0000000	0.6593077	0	0
## [61,]	0	0	0 0.7176938	0	0 0.7079936	0.0000000	0	0
## [62,]	0	0	0 0.3947597	0	0 0.0000000	0.0000000	0	0
## [63,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [64,]	0	0	0 0.2151021	0	0 0.3198942	0.3180277	0	0
## [65,]	0	0	0 0.2437667	0	0 0.0000000	0.2208083	0	0
## [66,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [67,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [68,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [69,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0
## [70,]	0	0	0 0.3252325	0	0 0.0000000	0.0000000	0	0
## [71,]	0	0	0 0.0000000	0	0 0.0000000	0.0000000	0	0

##		[,11]	[,12]	[,13]	[,14]	[,15]	[,16]	[,17]	[,18]	[,19]
##	[1,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[2,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[3,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[4,]	0.0000000	0.5103825	0	0	0	0	0	0	0.2005751
##	[5,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[6,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[7,]	0.0000000	0.0000000	0	0	0	0	0	0	0.3248181
##	[8,]	0.0000000	0.1977808	0	0	0	0	0	0	0.0000000
##	[9,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[10,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[11,]	0.0000000	0.2811724	0	0	0	0	0	0	0.0000000
##	[12,]	0.2811724	0.0000000	0	0	0	0	0	0	0.2539043
##	[13,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[14,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[15,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[16,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[17,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[18,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[19,]	0.0000000	0.2539043	0	0	0	0	0	0	0.0000000
##	[20,]	0.0000000	0.0000000	0	0	0	0	0	0	0.3235118
##	[21,]	0.2882331	0.0000000	0	0	0	0	0	0	0.2368854
##	[22,]	0.0000000	0.0000000	0	0	0	0	0	0	0.2705620
##	[23,]	0.2459572	0.0000000	0	0	0	0	0	0	0.0000000
##	[24,]	0.2026288	0.2916121	0	0	0	0	0	0	0.2449004
##	[25,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[26,]	0.2192775	0.2253955	0	0	0	0	0	0	0.2677480
##	[27,]	0.3321554	0.2409098	0	0	0	0	0	0	0.0000000
##	[28,]	0.0000000	0.2715887	0	0	0	0	0	0	0.2962017
##	[29,]	0.0000000	0.2773380	0	0	0	0	0	0	0.2450488
##	[30,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[31,]	0.0000000	0.1921298	0	0	0	0	0	0	0.0000000
##	[32,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[33,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[34,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[35,]	0.0000000	0.0000000	0	0	0	0	0	0	0.2362288
##	[36,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[37,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[38,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[39,]	0.1743011	0.2865748	0	0	0	0	0	0	0.0000000
##	[40,]	0.2886875	0.0000000	0	0	0	0	0	0	0.0000000
##	[41,]	0.2866443	0.1791160	0	0	0	0	0	0	0.0000000
##	[42,]	0.3063938	0.2307801	0	0	0	0	0	0	0.2115818
##	[43,]	0.3095615	0.0000000	0	0	0	0	0	0	0.2415041
##	[44,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[45,]	0.0000000	0.2785310	0	0	0	0	0	0	0.1853850
##	[46,]	0.3324884	0.0000000	0	0	0	0	0	0	0.2193592
##	[47,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[48,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[49,]	0.2935457	0.1727932	0	0	0	0	0	0	0.0000000
##	[50,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[51,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[52,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[53,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000

##	[54,]	0.3452584	0.2383394	0	0	0	0	0	0	0.0000000
##	[55,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[56,]	0.2555201	0.2123355	0	0	0	0	0	0	0.0000000
##	[57,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[58,]	0.2907274	0.2488713	0	0	0	0	0	0	0.0000000
##	[59,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[60,]	0.4911592	0.2269540	0	0	0	0	0	0	0.2711827
##	[61,]	0.7014222	0.0000000	0	0	0	0	0	0	0.0000000
##	[62,]	0.3020235	0.2805074	0	0	0	0	0	0	0.0000000
##	[63,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[64,]	0.0000000	0.2860230	0	0	0	0	0	0	0.3152603
##	[65,]	0.2644061	0.0000000	0	0	0	0	0	0	0.0000000
##	[66,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[67,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[68,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[69,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[70,]	0.2481163	0.0000000	0	0	0	0	0	0	0.3194205
##	[71,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##		[,20]	[,21]	[,22]	[,23]	[,24]	[,25]	[,26]		
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[4,]	0.3815714	0.0000000	0.3636633	0.2633630	0.0000000	0	0.2028552		
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[8,]	0.0000000	0.0000000	0.0000000	0.2294227	0.3317530	0	0.1991068		
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[11,]	0.0000000	0.2882331	0.0000000	0.2459572	0.2026288	0	0.2192775		
##	[12,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2916121	0	0.2253955		
##	[13,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[19,]	0.3235118	0.2368854	0.2705620	0.0000000	0.2449004	0	0.2677480		
##	[20,]	0.0000000	0.2772487	0.2603617	0.2909230	0.3025936	0	0.2591941		
##	[21,]	0.2772487	0.0000000	0.0000000	0.0000000	0.2354474	0	0.2332115		
##	[22,]	0.2603617	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2108082		
##	[23,]	0.2909230	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[24,]	0.3025936	0.2354474	0.0000000	0.0000000	0.0000000	0	0.2659640		
##	[25,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[26,]	0.2591941	0.2332115	0.2108082	0.0000000	0.2659640	0	0.0000000		
##	[27,]	0.3033522	0.2736925	0.0000000	0.2394237	0.2190355	0	0.2626266		
##	[28,]	0.0000000	0.0000000	0.2373677	0.0000000	0.2128139	0	0.2239432		
##	[29,]	0.2191070	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2721844		
##	[30,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[31,]	0.2743660	0.2813255	0.2650296	0.0000000	0.3098718	0	0.2700860		
##	[32,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[33,]	0.0000000	0.2835529	0.2182808	0.2316522	0.1880095	0	0.2400126		
##	[34,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[35,]	0.2981700	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2406684		

```

## [36,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [39,] 0.0000000 0.0000000 0.2273200 0.0000000 0.0000000 0 0.2549105
## [40,] 0.2155609 0.2120381 0.0000000 0.0000000 0.2588860 0 0.3102950
## [41,] 0.0000000 0.3102666 0.2820574 0.2202897 0.2297830 0 0.2504304
## [42,] 0.2331731 0.0000000 0.0000000 0.0000000 0.2392223 0 0.2713675
## [43,] 0.2259213 0.2628552 0.0000000 0.0000000 0.2496674 0 0.2739530
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [49,] 0.0000000 0.2688273 0.2488821 0.0000000 0.0000000 0 0.2764240
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [51,] 0.0000000 0.0000000 0.2384598 0.0000000 0.0000000 0 0.0000000
## [52,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [54,] 0.0000000 0.0000000 0.2670560 0.0000000 0.0000000 0 0.3229191
## [55,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [56,] 0.2613329 0.3598292 0.2979030 0.2247671 0.2898887 0 0.2759385
## [57,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.1967740
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.2107251
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [64,] 0.0000000 0.0000000 0.3321238 0.0000000 0.2119307 0 0.0000000
## [65,] 0.0000000 0.0000000 0.2110425 0.0000000 0.2486681 0 0.2835620
## [66,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [70,] 0.0000000 0.4003847 0.0000000 0.0000000 0.0000000 0 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
##      [,27]      [,28]      [,29] [,30]      [,31] [,32]      [,33] [,34]
## [1,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [2,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [3,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [4,] 0.2027553 0.3216766 0.3052002 0 0.3016152 0 0.0000000 0
## [5,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [6,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [7,] 0.0000000 0.6437092 0.0000000 0 0.0000000 0 0.3031654 0
## [8,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [9,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [10,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [11,] 0.3321554 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [12,] 0.2409098 0.2715887 0.2773380 0 0.1921298 0 0.0000000 0
## [13,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [14,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [15,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [16,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0
## [17,] 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0

```

## [18,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [19,]	0.0000000	0.2962017	0.2450488	0 0.0000000	0 0.0000000	0
## [20,]	0.3033522	0.0000000	0.2191070	0 0.2743660	0 0.0000000	0
## [21,]	0.2736925	0.0000000	0.0000000	0 0.2813255	0 0.2835529	0
## [22,]	0.0000000	0.2373677	0.0000000	0 0.2650296	0 0.2182808	0
## [23,]	0.2394237	0.0000000	0.0000000	0 0.0000000	0 0.2316522	0
## [24,]	0.2190355	0.2128139	0.0000000	0 0.3098718	0 0.1880095	0
## [25,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [26,]	0.2626266	0.2239432	0.2721844	0 0.2700860	0 0.2400126	0
## [27,]	0.0000000	0.0000000	0.2088541	0 0.0000000	0 0.0000000	0
## [28,]	0.0000000	0.0000000	0.2602431	0 0.2278112	0 0.0000000	0
## [29,]	0.2088541	0.2602431	0.0000000	0 0.0000000	0 0.0000000	0
## [30,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [31,]	0.0000000	0.2278112	0.0000000	0 0.0000000	0 0.3135839	0
## [32,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [33,]	0.0000000	0.0000000	0.0000000	0 0.3135839	0 0.0000000	0
## [34,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [35,]	0.0000000	0.2661437	0.0000000	0 0.2197154	0 0.2308645	0
## [36,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [37,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [38,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [39,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [40,]	0.3085925	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [41,]	0.2927110	0.0000000	0.2325916	0 0.2113014	0 0.2121022	0
## [42,]	0.2554602	0.3442199	0.2643195	0 0.0000000	0 0.0000000	0
## [43,]	0.2052293	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [44,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [45,]	0.0000000	0.1799242	0.2218010	0 0.0000000	0 0.0000000	0
## [46,]	0.0000000	0.2753627	0.0000000	0 0.3146838	0 0.0000000	0
## [47,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [48,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [49,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [50,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [51,]	0.0000000	0.0000000	0.0000000	0 0.2015060	0 0.2786684	0
## [52,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [53,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [54,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.2434843	0
## [55,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [56,]	0.3064486	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [57,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [58,]	0.0000000	0.2298440	0.0000000	0 0.2613249	0 0.3116348	0
## [59,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [60,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [61,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [62,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [63,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [64,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [65,]	0.2547043	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [66,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [67,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [68,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [69,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0
## [70,]	0.0000000	0.3028090	0.2684235	0 0.0000000	0 0.0000000	0
## [71,]	0.0000000	0.0000000	0.0000000	0 0.0000000	0 0.0000000	0

##		[,35]	[,36]	[,37]	[,38]	[,39]	[,40]	[,41]	[,42]
##	[1,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[2,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[4,]	0.4546678	0	0	0	0.0000000	0.0000000	0.3297954	0.1689728
##	[5,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[6,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[7,]	0.4877480	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[8,]	0.0000000	0	0	0	0.0000000	0.0000000	0.3467376	0.0000000
##	[9,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[10,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[11,]	0.0000000	0	0	0	0.1743011	0.2886875	0.2866443	0.3063938
##	[12,]	0.0000000	0	0	0	0.2865748	0.0000000	0.1791160	0.2307801
##	[13,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[14,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[16,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[17,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[18,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[19,]	0.2362288	0	0	0	0.0000000	0.0000000	0.0000000	0.2115818
##	[20,]	0.2981700	0	0	0	0.0000000	0.2155609	0.0000000	0.2331731
##	[21,]	0.0000000	0	0	0	0.0000000	0.2120381	0.3102666	0.0000000
##	[22,]	0.0000000	0	0	0	0.2273200	0.0000000	0.2820574	0.0000000
##	[23,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2202897	0.0000000
##	[24,]	0.0000000	0	0	0	0.0000000	0.2588860	0.2297830	0.2392223
##	[25,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[26,]	0.2406684	0	0	0	0.2549105	0.3102950	0.2504304	0.2713675
##	[27,]	0.0000000	0	0	0	0.0000000	0.3085925	0.2927110	0.2554602
##	[28,]	0.2661437	0	0	0	0.0000000	0.0000000	0.0000000	0.3442199
##	[29,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2325916	0.2643195
##	[30,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[31,]	0.2197154	0	0	0	0.0000000	0.0000000	0.2113014	0.0000000
##	[32,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[33,]	0.2308645	0	0	0	0.0000000	0.0000000	0.2121022	0.0000000
##	[34,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[35,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[36,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[37,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[38,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[39,]	0.0000000	0	0	0	0.0000000	0.2370764	0.2743144	0.2557494
##	[40,]	0.0000000	0	0	0	0.2370764	0.0000000	0.2792762	0.2214820
##	[41,]	0.0000000	0	0	0	0.2743144	0.2792762	0.0000000	0.2652569
##	[42,]	0.0000000	0	0	0	0.2557494	0.2214820	0.2652569	0.0000000
##	[43,]	0.0000000	0	0	0	0.0000000	0.2572849	0.2587247	0.0000000
##	[44,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[45,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2800983	0.2977968
##	[46,]	0.2511852	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[47,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[48,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[49,]	0.0000000	0	0	0	0.0000000	0.3356548	0.2183250	0.0000000
##	[50,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[51,]	0.3269612	0	0	0	0.2299890	0.2749544	0.2796825	0.0000000
##	[52,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[53,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000

##	[54,]	0.0000000	0	0	0	0.0000000	0.2630965	0.2448905	0.0000000	
##	[55,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[56,]	0.0000000	0	0	0	0.2267109	0.2250544	0.2735280	0.0000000	
##	[57,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[58,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[59,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[60,]	0.2819079	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[61,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[62,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[63,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[64,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[65,]	0.0000000	0	0	0	0.2417062	0.2846964	0.2369912	0.0000000	
##	[66,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[67,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[68,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[69,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[70,]	0.0000000	0	0	0	0.0000000	0.3191003	0.0000000	0.0000000	
##	[71,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##		[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]	[,50]	[,51]
##	[1,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[2,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[3,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[4,]	0.0000000	0	0.3937110	0.2467160	0	0	0.0000000	0	0.0000000
##	[5,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[6,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[7,]	0.0000000	0	0.0000000	0.2502366	0	0	0.0000000	0	0.0000000
##	[8,]	0.2567472	0	0.0000000	0.0000000	0	0	0.2864451	0	0.0000000
##	[9,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[10,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[11,]	0.3095615	0	0.0000000	0.3324884	0	0	0.2935457	0	0.0000000
##	[12,]	0.0000000	0	0.2785310	0.0000000	0	0	0.1727932	0	0.0000000
##	[13,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[14,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[15,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[16,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[17,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[18,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[19,]	0.2415041	0	0.1853850	0.2193592	0	0	0.0000000	0	0.0000000
##	[20,]	0.2259213	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[21,]	0.2628552	0	0.0000000	0.0000000	0	0	0.2688273	0	0.0000000
##	[22,]	0.0000000	0	0.0000000	0.0000000	0	0	0.2488821	0	0.2384598
##	[23,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[24,]	0.2496674	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[25,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[26,]	0.2739530	0	0.0000000	0.0000000	0	0	0.2764240	0	0.0000000
##	[27,]	0.2052293	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[28,]	0.0000000	0	0.1799242	0.2753627	0	0	0.0000000	0	0.0000000
##	[29,]	0.0000000	0	0.2218010	0.0000000	0	0	0.0000000	0	0.0000000
##	[30,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[31,]	0.0000000	0	0.0000000	0.3146838	0	0	0.0000000	0	0.2015060
##	[32,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[33,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2786684
##	[34,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[35,]	0.0000000	0	0.0000000	0.2511852	0	0	0.0000000	0	0.3269612



##	[36,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[37,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[38,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[39,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2299890
##	[40,]	0.2572849	0	0.0000000	0.0000000	0	0	0.3356548	0	0.2749544
##	[41,]	0.2587247	0	0.2800983	0.0000000	0	0	0.2183250	0	0.2796825
##	[42,]	0.0000000	0	0.2977968	0.0000000	0	0	0.0000000	0	0.0000000
##	[43,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2776653
##	[44,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[45,]	0.0000000	0	0.0000000	0.2710284	0	0	0.0000000	0	0.0000000
##	[46,]	0.0000000	0	0.2710284	0.0000000	0	0	0.0000000	0	0.0000000
##	[47,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[48,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[49,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2721467
##	[50,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[51,]	0.2776653	0	0.0000000	0.0000000	0	0	0.2721467	0	0.0000000
##	[52,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[53,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[54,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.3056505
##	[55,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[56,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2757987
##	[57,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[58,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.2818260
##	[59,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[60,]	0.0000000	0	0.3495128	0.2475259	0	0	0.0000000	0	0.2619107
##	[61,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[62,]	0.0000000	0	0.2748471	0.0000000	0	0	0.0000000	0	0.0000000
##	[63,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[64,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[65,]	0.0000000	0	0.0000000	0.0000000	0	0	0.2517867	0	0.0000000
##	[66,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[67,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[68,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[69,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[70,]	0.0000000	0	0.2539627	0.0000000	0	0	0.0000000	0	0.0000000
##	[71,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##		[,52] [,53]		[,54] [,55]		[,56] [,57]		[,58] [,59]		[,60]
##	[1,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[2,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[3,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[4,]	0	0	0.3022599	0	0.0000000	0	0.0000000	0	0.6773368
##	[5,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[6,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[7,]	0	0	0.0000000	0	0.0000000	0	0.3497263	0	0.0000000
##	[8,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.6593077
##	[9,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[10,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[11,]	0	0	0.3452584	0	0.2555201	0	0.2907274	0	0.4911592
##	[12,]	0	0	0.2383394	0	0.2123355	0	0.2488713	0	0.2269540
##	[13,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[14,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[15,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[16,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##	[17,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000

## [18,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [19,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2711827
## [20,]	0	0	0.0000000	0	0.2613329	0	0.0000000	0	0.0000000
## [21,]	0	0	0.0000000	0	0.3598292	0	0.0000000	0	0.0000000
## [22,]	0	0	0.2670560	0	0.2979030	0	0.0000000	0	0.0000000
## [23,]	0	0	0.0000000	0	0.2247671	0	0.0000000	0	0.0000000
## [24,]	0	0	0.0000000	0	0.2898887	0	0.0000000	0	0.0000000
## [25,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [26,]	0	0	0.3229191	0	0.2759385	0	0.0000000	0	0.1967740
## [27,]	0	0	0.0000000	0	0.3064486	0	0.0000000	0	0.0000000
## [28,]	0	0	0.0000000	0	0.0000000	0	0.2298440	0	0.0000000
## [29,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [30,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [31,]	0	0	0.0000000	0	0.0000000	0	0.2613249	0	0.0000000
## [32,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [33,]	0	0	0.2434843	0	0.0000000	0	0.3116348	0	0.0000000
## [34,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [35,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2819079
## [36,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [37,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [38,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [39,]	0	0	0.0000000	0	0.2267109	0	0.0000000	0	0.0000000
## [40,]	0	0	0.2630965	0	0.2250544	0	0.0000000	0	0.0000000
## [41,]	0	0	0.2448905	0	0.2735280	0	0.0000000	0	0.0000000
## [42,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [43,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [44,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [45,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.3495128
## [46,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2475259
## [47,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [48,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [49,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [50,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [51,]	0	0	0.3056505	0	0.2757987	0	0.2818260	0	0.2619107
## [52,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [53,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [54,]	0	0	0.0000000	0	0.3377972	0	0.3282855	0	0.0000000
## [55,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [56,]	0	0	0.3377972	0	0.0000000	0	0.0000000	0	0.0000000
## [57,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [58,]	0	0	0.3282855	0	0.0000000	0	0.0000000	0	0.0000000
## [59,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [60,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [61,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.3023358
## [62,]	0	0	0.0000000	0	0.3036693	0	0.0000000	0	0.2241849
## [63,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [64,]	0	0	0.0000000	0	0.2359187	0	0.0000000	0	0.0000000
## [65,]	0	0	0.2678229	0	0.2760283	0	0.2605539	0	0.0000000
## [66,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [67,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [68,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [69,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [70,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [71,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000

##		[,61]	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]
##	[1,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[2,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[3,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[4,]	0.7176938	0.3947597	0	0.2151021	0.2437667	0	0	0	0
##	[5,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[6,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[7,]	0.7079936	0.0000000	0	0.3198942	0.0000000	0	0	0	0
##	[8,]	0.0000000	0.0000000	0	0.3180277	0.2208083	0	0	0	0
##	[9,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[10,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[11,]	0.7014222	0.3020235	0	0.0000000	0.2644061	0	0	0	0
##	[12,]	0.0000000	0.2805074	0	0.2860230	0.0000000	0	0	0	0
##	[13,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[14,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[15,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[16,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[17,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[18,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[19,]	0.0000000	0.0000000	0	0.3152603	0.0000000	0	0	0	0
##	[20,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[21,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[22,]	0.0000000	0.0000000	0	0.3321238	0.2110425	0	0	0	0
##	[23,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[24,]	0.0000000	0.0000000	0	0.2119307	0.2486681	0	0	0	0
##	[25,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[26,]	0.0000000	0.2107251	0	0.0000000	0.2835620	0	0	0	0
##	[27,]	0.0000000	0.0000000	0	0.0000000	0.2547043	0	0	0	0
##	[28,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[29,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[30,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[31,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[32,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[33,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[34,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[35,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[36,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[37,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[38,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[39,]	0.0000000	0.0000000	0	0.0000000	0.2417062	0	0	0	0
##	[40,]	0.0000000	0.0000000	0	0.0000000	0.2846964	0	0	0	0
##	[41,]	0.0000000	0.0000000	0	0.0000000	0.2369912	0	0	0	0
##	[42,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[43,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[44,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[45,]	0.0000000	0.2748471	0	0.0000000	0.0000000	0	0	0	0
##	[46,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[47,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[48,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[49,]	0.0000000	0.0000000	0	0.0000000	0.2517867	0	0	0	0
##	[50,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[51,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[52,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[53,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0

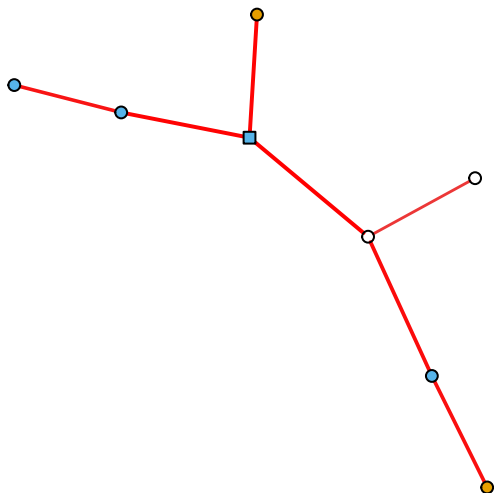
## [54,]	0.0000000	0.0000000	0	0.0000000	0.2678229	0	0	0	0
## [55,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [56,]	0.0000000	0.3036693	0	0.2359187	0.2760283	0	0	0	0
## [57,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [58,]	0.0000000	0.0000000	0	0.0000000	0.2605539	0	0	0	0
## [59,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [60,]	0.3023358	0.2241849	0	0.0000000	0.0000000	0	0	0	0
## [61,]	0.0000000	0.0000000	0	0.2113784	0.0000000	0	0	0	0
## [62,]	0.0000000	0.0000000	0	0.2600498	0.2539647	0	0	0	0
## [63,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [64,]	0.2113784	0.2600498	0	0.0000000	0.2595966	0	0	0	0
## [65,]	0.0000000	0.2539647	0	0.2595966	0.0000000	0	0	0	0
## [66,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [67,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [68,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [69,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [70,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [71,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[,70] [,71]								
## [1,]	0.0000000	0							
## [2,]	0.0000000	0							
## [3,]	0.0000000	0							
## [4,]	0.3252325	0							
## [5,]	0.0000000	0							
## [6,]	0.0000000	0							
## [7,]	0.0000000	0							
## [8,]	0.0000000	0							
## [9,]	0.0000000	0							
## [10,]	0.0000000	0							
## [11,]	0.2481163	0							
## [12,]	0.0000000	0							
## [13,]	0.0000000	0							
## [14,]	0.0000000	0							
## [15,]	0.0000000	0							
## [16,]	0.0000000	0							
## [17,]	0.0000000	0							
## [18,]	0.0000000	0							
## [19,]	0.3194205	0							
## [20,]	0.0000000	0							
## [21,]	0.4003847	0							
## [22,]	0.0000000	0							
## [23,]	0.0000000	0							
## [24,]	0.0000000	0							
## [25,]	0.0000000	0							
## [26,]	0.0000000	0							
## [27,]	0.0000000	0							
## [28,]	0.3028090	0							
## [29,]	0.2684235	0							
## [30,]	0.0000000	0							
## [31,]	0.0000000	0							
## [32,]	0.0000000	0							
## [33,]	0.0000000	0							
## [34,]	0.0000000	0							
## [35,]	0.0000000	0							

```

## [36,] 0.0000000 0
## [37,] 0.0000000 0
## [38,] 0.0000000 0
## [39,] 0.0000000 0
## [40,] 0.3191003 0
## [41,] 0.0000000 0
## [42,] 0.0000000 0
## [43,] 0.0000000 0
## [44,] 0.0000000 0
## [45,] 0.2539627 0
## [46,] 0.0000000 0
## [47,] 0.0000000 0
## [48,] 0.0000000 0
## [49,] 0.0000000 0
## [50,] 0.0000000 0
## [51,] 0.0000000 0
## [52,] 0.0000000 0
## [53,] 0.0000000 0
## [54,] 0.0000000 0
## [55,] 0.0000000 0
## [56,] 0.0000000 0
## [57,] 0.0000000 0
## [58,] 0.0000000 0
## [59,] 0.0000000 0
## [60,] 0.0000000 0
## [61,] 0.0000000 0
## [62,] 0.0000000 0
## [63,] 0.0000000 0
## [64,] 0.0000000 0
## [65,] 0.0000000 0
## [66,] 0.0000000 0
## [67,] 0.0000000 0
## [68,] 0.0000000 0
## [69,] 0.0000000 0
## [70,] 0.0000000 0
## [71,] 0.0000000 0

```

```
vis.motif(motif.graphs,60L,c1,threshold=0.5)
```



##	[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]
## [1,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [2,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [3,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [4,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [5,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [6,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [7,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [8,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [9,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [10,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [11,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [12,]	0	0	0	0.5103825	0	0	0.0000000	0.1977808	0	0
## [13,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [14,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [15,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [16,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [17,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [18,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [19,]	0	0	0	0.2005751	0	0	0.3248181	0.0000000	0	0
## [20,]	0	0	0	0.3815714	0	0	0.0000000	0.0000000	0	0
## [21,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [22,]	0	0	0	0.3636633	0	0	0.0000000	0.0000000	0	0
## [23,]	0	0	0	0.2633630	0	0	0.0000000	0.2294227	0	0
## [24,]	0	0	0	0.0000000	0	0	0.0000000	0.3317530	0	0
## [25,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [26,]	0	0	0	0.2028552	0	0	0.0000000	0.1991068	0	0
## [27,]	0	0	0	0.2027553	0	0	0.0000000	0.0000000	0	0
## [28,]	0	0	0	0.3216766	0	0	0.6437092	0.0000000	0	0
## [29,]	0	0	0	0.3052002	0	0	0.0000000	0.0000000	0	0
## [30,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [31,]	0	0	0	0.3016152	0	0	0.0000000	0.0000000	0	0
## [32,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [33,]	0	0	0	0.0000000	0	0	0.3031654	0.0000000	0	0
## [34,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [35,]	0	0	0	0.4546678	0	0	0.4877480	0.0000000	0	0
## [36,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [37,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [38,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [39,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [40,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [41,]	0	0	0	0.3297954	0	0	0.0000000	0.3467376	0	0
## [42,]	0	0	0	0.1689728	0	0	0.0000000	0.0000000	0	0
## [43,]	0	0	0	0.0000000	0	0	0.0000000	0.2567472	0	0
## [44,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [45,]	0	0	0	0.3937110	0	0	0.0000000	0.0000000	0	0
## [46,]	0	0	0	0.2467160	0	0	0.2502366	0.0000000	0	0
## [47,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [48,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [49,]	0	0	0	0.0000000	0	0	0.0000000	0.2864451	0	0
## [50,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [51,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [52,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
## [53,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0

##	[54,]	0	0	0	0.3022599	0	0	0.0000000	0.0000000	0	0
##	[55,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[56,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[57,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[58,]	0	0	0	0.0000000	0	0	0.3497263	0.0000000	0	0
##	[59,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[60,]	0	0	0	0.6773368	0	0	0.0000000	0.6593077	0	0
##	[61,]	0	0	0	0.7176938	0	0	0.7079936	0.0000000	0	0
##	[62,]	0	0	0	0.3947597	0	0	0.0000000	0.0000000	0	0
##	[63,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[64,]	0	0	0	0.2151021	0	0	0.3198942	0.3180277	0	0
##	[65,]	0	0	0	0.2437667	0	0	0.0000000	0.2208083	0	0
##	[66,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[67,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[68,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[69,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##	[70,]	0	0	0	0.3252325	0	0	0.0000000	0.0000000	0	0
##	[71,]	0	0	0	0.0000000	0	0	0.0000000	0.0000000	0	0
##											
##		[,11]	[,12]	[,13]	[,14]	[,15]	[,16]	[,17]	[,18]	[,19]	
##	[1,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[2,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[3,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[4,]	0.0000000	0.5103825	0	0	0	0	0	0	0.2005751	
##	[5,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[6,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[7,]	0.0000000	0.0000000	0	0	0	0	0	0	0.3248181	
##	[8,]	0.0000000	0.1977808	0	0	0	0	0	0	0.0000000	
##	[9,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[10,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[11,]	0.0000000	0.2811724	0	0	0	0	0	0	0.0000000	
##	[12,]	0.2811724	0.0000000	0	0	0	0	0	0	0.2539043	
##	[13,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[14,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[15,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[16,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[17,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[18,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[19,]	0.0000000	0.2539043	0	0	0	0	0	0	0.0000000	
##	[20,]	0.0000000	0.0000000	0	0	0	0	0	0	0.3235118	
##	[21,]	0.2882331	0.0000000	0	0	0	0	0	0	0.2368854	
##	[22,]	0.0000000	0.0000000	0	0	0	0	0	0	0.2705620	
##	[23,]	0.2459572	0.0000000	0	0	0	0	0	0	0.0000000	
##	[24,]	0.2026288	0.2916121	0	0	0	0	0	0	0.2449004	
##	[25,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[26,]	0.2192775	0.2253955	0	0	0	0	0	0	0.2677480	
##	[27,]	0.3321554	0.2409098	0	0	0	0	0	0	0.0000000	
##	[28,]	0.0000000	0.2715887	0	0	0	0	0	0	0.2962017	
##	[29,]	0.0000000	0.2773380	0	0	0	0	0	0	0.2450488	
##	[30,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[31,]	0.0000000	0.1921298	0	0	0	0	0	0	0.0000000	
##	[32,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[33,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[34,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000	
##	[35,]	0.0000000	0.0000000	0	0	0	0	0	0	0.2362288	

##	[36,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[37,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[38,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[39,]	0.1743011	0.2865748	0	0	0	0	0	0	0.0000000
##	[40,]	0.2886875	0.0000000	0	0	0	0	0	0	0.0000000
##	[41,]	0.2866443	0.1791160	0	0	0	0	0	0	0.0000000
##	[42,]	0.3063938	0.2307801	0	0	0	0	0	0	0.2115818
##	[43,]	0.3095615	0.0000000	0	0	0	0	0	0	0.2415041
##	[44,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[45,]	0.0000000	0.2785310	0	0	0	0	0	0	0.1853850
##	[46,]	0.3324884	0.0000000	0	0	0	0	0	0	0.2193592
##	[47,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[48,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[49,]	0.2935457	0.1727932	0	0	0	0	0	0	0.0000000
##	[50,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[51,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[52,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[53,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[54,]	0.3452584	0.2383394	0	0	0	0	0	0	0.0000000
##	[55,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[56,]	0.2555201	0.2123355	0	0	0	0	0	0	0.0000000
##	[57,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[58,]	0.2907274	0.2488713	0	0	0	0	0	0	0.0000000
##	[59,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[60,]	0.4911592	0.2269540	0	0	0	0	0	0	0.2711827
##	[61,]	0.7014222	0.0000000	0	0	0	0	0	0	0.0000000
##	[62,]	0.3020235	0.2805074	0	0	0	0	0	0	0.0000000
##	[63,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[64,]	0.0000000	0.2860230	0	0	0	0	0	0	0.3152603
##	[65,]	0.2644061	0.0000000	0	0	0	0	0	0	0.0000000
##	[66,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[67,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[68,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[69,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##	[70,]	0.2481163	0.0000000	0	0	0	0	0	0	0.3194205
##	[71,]	0.0000000	0.0000000	0	0	0	0	0	0	0.0000000
##		[,20]	[,21]	[,22]	[,23]	[,24]	[,25]	[,26]		
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[4,]	0.3815714	0.0000000	0.3636633	0.2633630	0.0000000	0	0.2028552		
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[8,]	0.0000000	0.0000000	0.0000000	0.2294227	0.3317530	0	0.1991068		
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[11,]	0.0000000	0.2882331	0.0000000	0.2459572	0.2026288	0	0.2192775		
##	[12,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2916121	0	0.2253955		
##	[13,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		



## [18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [19,]	0.3235118	0.2368854	0.2705620	0.0000000	0.2449004	0 0.2677480
## [20,]	0.0000000	0.2772487	0.2603617	0.2909230	0.3025936	0 0.2591941
## [21,]	0.2772487	0.0000000	0.0000000	0.0000000	0.2354474	0 0.2332115
## [22,]	0.2603617	0.0000000	0.0000000	0.0000000	0.0000000	0 0.2108082
## [23,]	0.2909230	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [24,]	0.3025936	0.2354474	0.0000000	0.0000000	0.0000000	0 0.2659640
## [25,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [26,]	0.2591941	0.2332115	0.2108082	0.0000000	0.2659640	0 0.0000000
## [27,]	0.3033522	0.2736925	0.0000000	0.2394237	0.2190355	0 0.2626266
## [28,]	0.0000000	0.0000000	0.2373677	0.0000000	0.2128139	0 0.2239432
## [29,]	0.2191070	0.0000000	0.0000000	0.0000000	0.0000000	0 0.2721844
## [30,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [31,]	0.2743660	0.2813255	0.2650296	0.0000000	0.3098718	0 0.2700860
## [32,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [33,]	0.0000000	0.2835529	0.2182808	0.2316522	0.1880095	0 0.2400126
## [34,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [35,]	0.2981700	0.0000000	0.0000000	0.0000000	0.0000000	0 0.2406684
## [36,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [37,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [38,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [39,]	0.0000000	0.0000000	0.2273200	0.0000000	0.0000000	0 0.2549105
## [40,]	0.2155609	0.2120381	0.0000000	0.0000000	0.2588860	0 0.3102950
## [41,]	0.0000000	0.3102666	0.2820574	0.2202897	0.2297830	0 0.2504304
## [42,]	0.2331731	0.0000000	0.0000000	0.0000000	0.2392223	0 0.2713675
## [43,]	0.2259213	0.2628552	0.0000000	0.0000000	0.2496674	0 0.2739530
## [44,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [45,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [46,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [47,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [48,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [49,]	0.0000000	0.2688273	0.2488821	0.0000000	0.0000000	0 0.2764240
## [50,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [51,]	0.0000000	0.0000000	0.2384598	0.0000000	0.0000000	0 0.0000000
## [52,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [53,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [54,]	0.0000000	0.0000000	0.2670560	0.0000000	0.0000000	0 0.3229191
## [55,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [56,]	0.2613329	0.3598292	0.2979030	0.2247671	0.2898887	0 0.2759385
## [57,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [58,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [59,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [60,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.1967740
## [61,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [62,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.2107251
## [63,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [64,]	0.0000000	0.0000000	0.3321238	0.0000000	0.2119307	0 0.0000000
## [65,]	0.0000000	0.0000000	0.2110425	0.0000000	0.2486681	0 0.2835620
## [66,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [67,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [68,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [69,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000
## [70,]	0.0000000	0.4003847	0.0000000	0.0000000	0.0000000	0 0.0000000
## [71,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000

##		[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]
##	[1,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[2,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[3,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[4,]	0.2027553	0.3216766	0.3052002	0	0.3016152	0	0.0000000	0
##	[5,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[6,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[7,]	0.0000000	0.6437092	0.0000000	0	0.0000000	0	0.3031654	0
##	[8,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[9,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[10,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[11,]	0.3321554	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[12,]	0.2409098	0.2715887	0.2773380	0	0.1921298	0	0.0000000	0
##	[13,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[14,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[15,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[16,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[17,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[18,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[19,]	0.0000000	0.2962017	0.2450488	0	0.0000000	0	0.0000000	0
##	[20,]	0.3033522	0.0000000	0.2191070	0	0.2743660	0	0.0000000	0
##	[21,]	0.2736925	0.0000000	0.0000000	0	0.2813255	0	0.2835529	0
##	[22,]	0.0000000	0.2373677	0.0000000	0	0.2650296	0	0.2182808	0
##	[23,]	0.2394237	0.0000000	0.0000000	0	0.0000000	0	0.2316522	0
##	[24,]	0.2190355	0.2128139	0.0000000	0	0.3098718	0	0.1880095	0
##	[25,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[26,]	0.2626266	0.2239432	0.2721844	0	0.2700860	0	0.2400126	0
##	[27,]	0.0000000	0.0000000	0.2088541	0	0.0000000	0	0.0000000	0
##	[28,]	0.0000000	0.0000000	0.2602431	0	0.2278112	0	0.0000000	0
##	[29,]	0.2088541	0.2602431	0.0000000	0	0.0000000	0	0.0000000	0
##	[30,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[31,]	0.0000000	0.2278112	0.0000000	0	0.0000000	0	0.3135839	0
##	[32,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[33,]	0.0000000	0.0000000	0.0000000	0	0.3135839	0	0.0000000	0
##	[34,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[35,]	0.0000000	0.2661437	0.0000000	0	0.2197154	0	0.2308645	0
##	[36,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[37,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[38,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[39,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[40,]	0.3085925	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[41,]	0.2927110	0.0000000	0.2325916	0	0.2113014	0	0.2121022	0
##	[42,]	0.2554602	0.3442199	0.2643195	0	0.0000000	0	0.0000000	0
##	[43,]	0.2052293	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[44,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[45,]	0.0000000	0.1799242	0.2218010	0	0.0000000	0	0.0000000	0
##	[46,]	0.0000000	0.2753627	0.0000000	0	0.3146838	0	0.0000000	0
##	[47,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[48,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[49,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[50,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[51,]	0.0000000	0.0000000	0.0000000	0	0.2015060	0	0.2786684	0
##	[52,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[53,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0

##	[54,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.2434843	0
##	[55,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[56,]	0.3064486	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[57,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[58,]	0.0000000	0.2298440	0.0000000	0	0.2613249	0	0.3116348	0
##	[59,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[60,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[61,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[62,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[63,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[64,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[65,]	0.2547043	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[66,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[67,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[68,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[69,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##	[70,]	0.0000000	0.3028090	0.2684235	0	0.0000000	0	0.0000000	0
##	[71,]	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0.0000000	0
##		[,35]	[,36]	[,37]	[,38]	[,39]	[,40]	[,41]	[,42]
##	[1,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[2,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[4,]	0.4546678	0	0	0	0.0000000	0.0000000	0.3297954	0.1689728
##	[5,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[6,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[7,]	0.4877480	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[8,]	0.0000000	0	0	0	0.0000000	0.0000000	0.3467376	0.0000000
##	[9,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[10,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[11,]	0.0000000	0	0	0	0.1743011	0.2886875	0.2866443	0.3063938
##	[12,]	0.0000000	0	0	0	0.2865748	0.0000000	0.1791160	0.2307801
##	[13,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[14,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[16,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[17,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[18,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[19,]	0.2362288	0	0	0	0.0000000	0.0000000	0.0000000	0.2115818
##	[20,]	0.2981700	0	0	0	0.0000000	0.2155609	0.0000000	0.2331731
##	[21,]	0.0000000	0	0	0	0.0000000	0.2120381	0.3102666	0.0000000
##	[22,]	0.0000000	0	0	0	0.2273200	0.0000000	0.2820574	0.0000000
##	[23,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2202897	0.0000000
##	[24,]	0.0000000	0	0	0	0.0000000	0.2588860	0.2297830	0.2392223
##	[25,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[26,]	0.2406684	0	0	0	0.2549105	0.3102950	0.2504304	0.2713675
##	[27,]	0.0000000	0	0	0	0.0000000	0.3085925	0.2927110	0.2554602
##	[28,]	0.2661437	0	0	0	0.0000000	0.0000000	0.0000000	0.3442199
##	[29,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2325916	0.2643195
##	[30,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[31,]	0.2197154	0	0	0	0.0000000	0.0000000	0.2113014	0.0000000
##	[32,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[33,]	0.2308645	0	0	0	0.0000000	0.0000000	0.2121022	0.0000000
##	[34,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[35,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000

##	[36,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[37,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[38,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[39,]	0.0000000	0	0	0	0.0000000	0.2370764	0.2743144	0.2557494	
##	[40,]	0.0000000	0	0	0	0.2370764	0.0000000	0.2792762	0.2214820	
##	[41,]	0.0000000	0	0	0	0.2743144	0.2792762	0.0000000	0.2652569	
##	[42,]	0.0000000	0	0	0	0.2557494	0.2214820	0.2652569	0.0000000	
##	[43,]	0.0000000	0	0	0	0.0000000	0.2572849	0.2587247	0.0000000	
##	[44,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[45,]	0.0000000	0	0	0	0.0000000	0.0000000	0.2800983	0.2977968	
##	[46,]	0.2511852	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[47,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[48,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[49,]	0.0000000	0	0	0	0.0000000	0.3356548	0.2183250	0.0000000	
##	[50,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[51,]	0.3269612	0	0	0	0.2299890	0.2749544	0.2796825	0.0000000	
##	[52,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[53,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[54,]	0.0000000	0	0	0	0.0000000	0.2630965	0.2448905	0.0000000	
##	[55,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[56,]	0.0000000	0	0	0	0.2267109	0.2250544	0.2735280	0.0000000	
##	[57,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[58,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[59,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[60,]	0.2819079	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[61,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[62,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[63,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[64,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[65,]	0.0000000	0	0	0	0.2417062	0.2846964	0.2369912	0.0000000	
##	[66,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[67,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[68,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[69,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##	[70,]	0.0000000	0	0	0	0.0000000	0.3191003	0.0000000	0.0000000	
##	[71,]	0.0000000	0	0	0	0.0000000	0.0000000	0.0000000	0.0000000	
##		[,43]	[,44]	[,45]	[,46]	[,47]	[,48]	[,49]	[,50]	[,51]
##	[1,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[2,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[3,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[4,]	0.0000000	0	0.3937110	0.2467160	0	0	0.0000000	0	0.0000000
##	[5,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[6,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[7,]	0.0000000	0	0.0000000	0.2502366	0	0	0.0000000	0	0.0000000
##	[8,]	0.2567472	0	0.0000000	0.0000000	0	0	0.2864451	0	0.0000000
##	[9,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[10,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[11,]	0.3095615	0	0.0000000	0.3324884	0	0	0.2935457	0	0.0000000
##	[12,]	0.0000000	0	0.2785310	0.0000000	0	0	0.1727932	0	0.0000000
##	[13,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[14,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[15,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[16,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000
##	[17,]	0.0000000	0	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000

## [18,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [19,]	0.2415041	0 0.1853850	0.2193592	0	0 0.0000000	0 0.0000000
## [20,]	0.2259213	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [21,]	0.2628552	0 0.0000000	0.0000000	0	0 0.2688273	0 0.0000000
## [22,]	0.0000000	0 0.0000000	0.0000000	0	0 0.2488821	0 0.2384598
## [23,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [24,]	0.2496674	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [25,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [26,]	0.2739530	0 0.0000000	0.0000000	0	0 0.2764240	0 0.0000000
## [27,]	0.2052293	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [28,]	0.0000000	0 0.1799242	0.2753627	0	0 0.0000000	0 0.0000000
## [29,]	0.0000000	0 0.2218010	0.0000000	0	0 0.0000000	0 0.0000000
## [30,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [31,]	0.0000000	0 0.0000000	0.3146838	0	0 0.0000000	0 0.2015060
## [32,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [33,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.2786684
## [34,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [35,]	0.0000000	0 0.0000000	0.2511852	0	0 0.0000000	0 0.3269612
## [36,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [37,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [38,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [39,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.2299890
## [40,]	0.2572849	0 0.0000000	0.0000000	0	0 0.3356548	0 0.2749544
## [41,]	0.2587247	0 0.2800983	0.0000000	0	0 0.2183250	0 0.2796825
## [42,]	0.0000000	0 0.2977968	0.0000000	0	0 0.0000000	0 0.0000000
## [43,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.2776653
## [44,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [45,]	0.0000000	0 0.0000000	0.2710284	0	0 0.0000000	0 0.0000000
## [46,]	0.0000000	0 0.2710284	0.0000000	0	0 0.0000000	0 0.0000000
## [47,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [48,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [49,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.2721467
## [50,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [51,]	0.2776653	0 0.0000000	0.0000000	0	0 0.2721467	0 0.0000000
## [52,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [53,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [54,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.3056505
## [55,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [56,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.2757987
## [57,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [58,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.2818260
## [59,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [60,]	0.0000000	0 0.3495128	0.2475259	0	0 0.0000000	0 0.2619107
## [61,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [62,]	0.0000000	0 0.2748471	0.0000000	0	0 0.0000000	0 0.0000000
## [63,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [64,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [65,]	0.0000000	0 0.0000000	0.0000000	0	0 0.2517867	0 0.0000000
## [66,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [67,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [68,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [69,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000
## [70,]	0.0000000	0 0.2539627	0.0000000	0	0 0.0000000	0 0.0000000
## [71,]	0.0000000	0 0.0000000	0.0000000	0	0 0.0000000	0 0.0000000

##	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	[,58]	[,59]	[,60]
## [1,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [2,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [3,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [4,]	0	0	0.3022599	0	0.0000000	0	0.0000000	0	0.6773368
## [5,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [6,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [7,]	0	0	0.0000000	0	0.0000000	0	0.3497263	0	0.0000000
## [8,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.6593077
## [9,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [10,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [11,]	0	0	0.3452584	0	0.2555201	0	0.2907274	0	0.4911592
## [12,]	0	0	0.2383394	0	0.2123355	0	0.2488713	0	0.2269540
## [13,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [14,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [15,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [16,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [17,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [18,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [19,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2711827
## [20,]	0	0	0.0000000	0	0.2613329	0	0.0000000	0	0.0000000
## [21,]	0	0	0.0000000	0	0.3598292	0	0.0000000	0	0.0000000
## [22,]	0	0	0.2670560	0	0.2979030	0	0.0000000	0	0.0000000
## [23,]	0	0	0.0000000	0	0.2247671	0	0.0000000	0	0.0000000
## [24,]	0	0	0.0000000	0	0.2898887	0	0.0000000	0	0.0000000
## [25,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [26,]	0	0	0.3229191	0	0.2759385	0	0.0000000	0	0.1967740
## [27,]	0	0	0.0000000	0	0.3064486	0	0.0000000	0	0.0000000
## [28,]	0	0	0.0000000	0	0.0000000	0	0.2298440	0	0.0000000
## [29,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [30,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [31,]	0	0	0.0000000	0	0.0000000	0	0.2613249	0	0.0000000
## [32,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [33,]	0	0	0.2434843	0	0.0000000	0	0.3116348	0	0.0000000
## [34,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [35,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2819079
## [36,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [37,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [38,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [39,]	0	0	0.0000000	0	0.2267109	0	0.0000000	0	0.0000000
## [40,]	0	0	0.2630965	0	0.2250544	0	0.0000000	0	0.0000000
## [41,]	0	0	0.2448905	0	0.2735280	0	0.0000000	0	0.0000000
## [42,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [43,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [44,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [45,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.3495128
## [46,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.2475259
## [47,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [48,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [49,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [50,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [51,]	0	0	0.3056505	0	0.2757987	0	0.2818260	0	0.2619107
## [52,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [53,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000

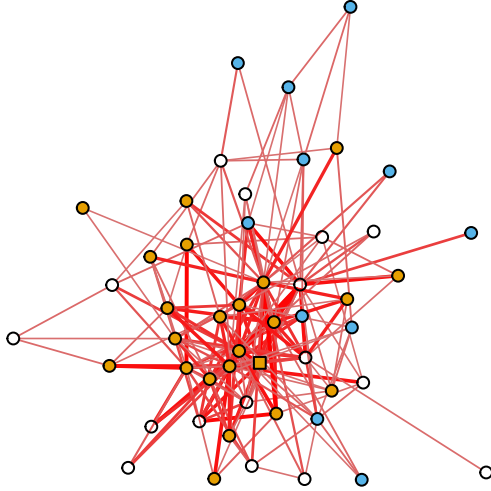
## [54,]	0	0	0.0000000	0	0.3377972	0	0.3282855	0	0.0000000
## [55,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [56,]	0	0	0.3377972	0	0.0000000	0	0.0000000	0	0.0000000
## [57,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [58,]	0	0	0.3282855	0	0.0000000	0	0.0000000	0	0.0000000
## [59,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [60,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [61,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.3023358
## [62,]	0	0	0.0000000	0	0.3036693	0	0.0000000	0	0.2241849
## [63,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [64,]	0	0	0.0000000	0	0.2359187	0	0.0000000	0	0.0000000
## [65,]	0	0	0.2678229	0	0.2760283	0	0.2605539	0	0.0000000
## [66,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [67,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [68,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [69,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [70,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
## [71,]	0	0	0.0000000	0	0.0000000	0	0.0000000	0	0.0000000
##		[,61]	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68] [,69]
## [1,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [2,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [3,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [4,]	0.7176938	0.3947597	0	0.2151021	0.2437667	0	0	0	0
## [5,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [6,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [7,]	0.7079936	0.0000000	0	0.3198942	0.0000000	0	0	0	0
## [8,]	0.0000000	0.0000000	0	0.3180277	0.2208083	0	0	0	0
## [9,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [10,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [11,]	0.7014222	0.3020235	0	0.0000000	0.2644061	0	0	0	0
## [12,]	0.0000000	0.2805074	0	0.2860230	0.0000000	0	0	0	0
## [13,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [14,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [15,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [16,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [17,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [18,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [19,]	0.0000000	0.0000000	0	0.3152603	0.0000000	0	0	0	0
## [20,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [21,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [22,]	0.0000000	0.0000000	0	0.3321238	0.2110425	0	0	0	0
## [23,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [24,]	0.0000000	0.0000000	0	0.2119307	0.2486681	0	0	0	0
## [25,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [26,]	0.0000000	0.2107251	0	0.0000000	0.2835620	0	0	0	0
## [27,]	0.0000000	0.0000000	0	0.0000000	0.2547043	0	0	0	0
## [28,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [29,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [30,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [31,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [32,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [33,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [34,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
## [35,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0

##	[36,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[37,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[38,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[39,]	0.0000000	0.0000000	0	0.0000000	0.2417062	0	0	0	0
##	[40,]	0.0000000	0.0000000	0	0.0000000	0.2846964	0	0	0	0
##	[41,]	0.0000000	0.0000000	0	0.0000000	0.2369912	0	0	0	0
##	[42,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[43,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[44,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[45,]	0.0000000	0.2748471	0	0.0000000	0.0000000	0	0	0	0
##	[46,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[47,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[48,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[49,]	0.0000000	0.0000000	0	0.0000000	0.2517867	0	0	0	0
##	[50,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[51,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[52,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[53,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[54,]	0.0000000	0.0000000	0	0.0000000	0.2678229	0	0	0	0
##	[55,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[56,]	0.0000000	0.3036693	0	0.2359187	0.2760283	0	0	0	0
##	[57,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[58,]	0.0000000	0.0000000	0	0.0000000	0.2605539	0	0	0	0
##	[59,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[60,]	0.3023358	0.2241849	0	0.0000000	0.0000000	0	0	0	0
##	[61,]	0.0000000	0.0000000	0	0.2113784	0.0000000	0	0	0	0
##	[62,]	0.0000000	0.0000000	0	0.2600498	0.2539647	0	0	0	0
##	[63,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[64,]	0.2113784	0.2600498	0	0.0000000	0.2595966	0	0	0	0
##	[65,]	0.0000000	0.2539647	0	0.2595966	0.0000000	0	0	0	0
##	[66,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[67,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[68,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[69,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[70,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[71,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0	0	0	0
##	[,70] [,71]									
##	[1,]	0.0000000	0							
##	[2,]	0.0000000	0							
##	[3,]	0.0000000	0							
##	[4,]	0.3252325	0							
##	[5,]	0.0000000	0							
##	[6,]	0.0000000	0							
##	[7,]	0.0000000	0							
##	[8,]	0.0000000	0							
##	[9,]	0.0000000	0							
##	[10,]	0.0000000	0							
##	[11,]	0.2481163	0							
##	[12,]	0.0000000	0							
##	[13,]	0.0000000	0							
##	[14,]	0.0000000	0							
##	[15,]	0.0000000	0							
##	[16,]	0.0000000	0							
##	[17,]	0.0000000	0							



##	[18,]	0.0000000	0
##	[19,]	0.3194205	0
##	[20,]	0.0000000	0
##	[21,]	0.4003847	0
##	[22,]	0.0000000	0
##	[23,]	0.0000000	0
##	[24,]	0.0000000	0
##	[25,]	0.0000000	0
##	[26,]	0.0000000	0
##	[27,]	0.0000000	0
##	[28,]	0.3028090	0
##	[29,]	0.2684235	0
##	[30,]	0.0000000	0
##	[31,]	0.0000000	0
##	[32,]	0.0000000	0
##	[33,]	0.0000000	0
##	[34,]	0.0000000	0
##	[35,]	0.0000000	0
##	[36,]	0.0000000	0
##	[37,]	0.0000000	0
##	[38,]	0.0000000	0
##	[39,]	0.0000000	0
##	[40,]	0.3191003	0
##	[41,]	0.0000000	0
##	[42,]	0.0000000	0
##	[43,]	0.0000000	0
##	[44,]	0.0000000	0
##	[45,]	0.2539627	0
##	[46,]	0.0000000	0
##	[47,]	0.0000000	0
##	[48,]	0.0000000	0
##	[49,]	0.0000000	0
##	[50,]	0.0000000	0
##	[51,]	0.0000000	0
##	[52,]	0.0000000	0
##	[53,]	0.0000000	0
##	[54,]	0.0000000	0
##	[55,]	0.0000000	0
##	[56,]	0.0000000	0
##	[57,]	0.0000000	0
##	[58,]	0.0000000	0
##	[59,]	0.0000000	0
##	[60,]	0.0000000	0
##	[61,]	0.0000000	0
##	[62,]	0.0000000	0
##	[63,]	0.0000000	0
##	[64,]	0.0000000	0
##	[65,]	0.0000000	0
##	[66,]	0.0000000	0
##	[67,]	0.0000000	0
##	[68,]	0.0000000	0
##	[69,]	0.0000000	0
##	[70,]	0.0000000	0
##	[71,]	0.0000000	0

```
vis.motif(motif.graphs,7L,c1,threshold=0.3)
```



##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]
##	[1,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[2,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[3,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[4,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[5,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[6,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[7,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[8,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[9,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[10,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[11,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[12,]	0.0000000	0	0.0000000	0.3072372	0.0000000	0	0	0.5798303
##	[13,]	0.0000000	0	0.0000000	0.2566934	0.0000000	0	0	0.0000000
##	[14,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[15,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[16,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[17,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[18,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[19,]	0.2557243	0	0.2462827	0.2607220	0.0000000	0	0	0.0000000
##	[20,]	0.3316238	0	0.0000000	0.2030741	0.2549255	0	0	0.0000000
##	[21,]	0.2563230	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[22,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[23,]	0.2681594	0	0.2817964	0.2085796	0.2601246	0	0	0.6464148
##	[24,]	0.2820798	0	0.0000000	0.0000000	0.0000000	0	0	0.6441309
##	[25,]	0.0000000	0	0.2589686	0.0000000	0.0000000	0	0	0.0000000
##	[26,]	0.2768211	0	0.0000000	0.2541688	0.2731171	0	0	0.7460165
##	[27,]	0.2695961	0	0.0000000	0.3082349	0.2955195	0	0	0.0000000
##	[28,]	0.0000000	0	0.2499089	0.2260950	0.3440441	0	0	0.0000000
##	[29,]	0.2883663	0	0.0000000	0.3011402	0.0000000	0	0	0.0000000
##	[30,]	0.2714619	0	0.2809237	0.0000000	0.0000000	0	0	0.0000000
##	[31,]	0.0000000	0	0.0000000	0.2751974	0.2497870	0	0	0.0000000
##	[32,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[33,]	0.0000000	0	0.0000000	0.0000000	0.2685298	0	0	0.0000000
##	[34,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[35,]	0.0000000	0	0.0000000	0.2462465	0.2796471	0	0	0.0000000

##	[36,]	0.2935294	0	0.0000000	0.0000000	0.0000000	0	0	0.5827565
##	[37,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[38,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[39,]	0.2583935	0	0.0000000	0.0000000	0.2529790	0	0	0.0000000
##	[40,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[41,]	0.2253716	0	0.6380182	0.2661144	0.0000000	0	0	0.7263547
##	[42,]	0.0000000	0	0.0000000	0.2386422	0.2962613	0	0	0.0000000
##	[43,]	0.3136333	0	0.0000000	0.0000000	0.0000000	0	0	0.6379541
##	[44,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[45,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[46,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[47,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[48,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[49,]	0.0000000	0	0.6935498	0.0000000	0.0000000	0	0	0.5184813
##	[50,]	0.0000000	0	0.0000000	0.0000000	0.2810794	0	0	0.0000000
##	[51,]	0.0000000	0	0.0000000	0.0000000	0.2807476	0	0	0.0000000
##	[52,]	0.6906409	0	0.5769970	0.6697094	0.5849916	0	0	0.7353522
##	[53,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[54,]	0.2620573	0	0.2794444	0.3427006	0.3121368	0	0	0.0000000
##	[55,]	0.0000000	0	0.2669893	0.0000000	0.0000000	0	0	0.0000000
##	[56,]	0.2525731	0	0.0000000	0.0000000	0.2944790	0	0	0.0000000
##	[57,]	0.3441318	0	0.0000000	0.0000000	0.0000000	0	0	0.2773832
##	[58,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[59,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[60,]	0.0000000	0	0.0000000	0.1955336	0.0000000	0	0	0.2655542
##	[61,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[62,]	0.0000000	0	0.0000000	0.2606786	0.0000000	0	0	0.0000000
##	[63,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[64,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[65,]	0.6874944	0	0.5967384	0.2492309	0.5236712	0	0	0.5991516
##	[66,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[67,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[68,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[69,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[70,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##	[71,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0	0.0000000
##		[,9]	[,10]	[,11]	[,12]	[,13]	[,14]	[,15]	[,16] [,17]
##	[1,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[2,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[3,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[4,]	0.0000000	0	0.0000000	0.3072372	0.2566934	0	0.0000000	0 0
##	[5,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[6,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[7,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[8,]	0.0000000	0	0.0000000	0.5798303	0.0000000	0	0.0000000	0 0
##	[9,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[10,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[11,]	0.0000000	0	0.0000000	0.3086361	0.0000000	0	0.0000000	0 0
##	[12,]	0.0000000	0	0.3086361	0.0000000	0.3209307	0	0.0000000	0 0
##	[13,]	0.0000000	0	0.0000000	0.3209307	0.0000000	0	0.0000000	0 0
##	[14,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[15,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[16,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0
##	[17,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0 0

## [18,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [19,]	0.2481542	0	0.0000000	0.6813078	0.2484076	0	0.3496220	0	0
## [20,]	0.0000000	0	0.0000000	0.0000000	0.1756223	0	0.3351275	0	0
## [21,]	0.2363591	0	0.2482276	0.0000000	0.2988677	0	0.0000000	0	0
## [22,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [23,]	0.0000000	0	0.2556310	0.0000000	0.2837842	0	0.0000000	0	0
## [24,]	0.0000000	0	0.2822729	0.7201771	0.2556980	0	0.0000000	0	0
## [25,]	0.2647709	0	0.0000000	0.5022490	0.0000000	0	0.0000000	0	0
## [26,]	0.2460597	0	0.2334016	0.3114416	0.2391253	0	0.2905559	0	0
## [27,]	0.2544275	0	0.3671461	0.2591364	0.2915190	0	0.2286275	0	0
## [28,]	0.0000000	0	0.0000000	0.3760109	0.2808382	0	0.2107747	0	0
## [29,]	0.3343965	0	0.0000000	0.2690445	0.0000000	0	0.2762580	0	0
## [30,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [31,]	0.0000000	0	0.0000000	0.2679893	0.2972710	0	0.2647655	0	0
## [32,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [33,]	0.0000000	0	0.0000000	0.0000000	0.2534797	0	0.0000000	0	0
## [34,]	0.0000000	0	0.0000000	0.6784674	0.0000000	0	0.0000000	0	0
## [35,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.2625581	0	0
## [36,]	0.0000000	0	0.0000000	0.6879421	0.3023615	0	0.2710168	0	0
## [37,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [38,]	0.0000000	0	0.0000000	0.0000000	0.3309681	0	0.0000000	0	0
## [39,]	0.0000000	0	0.2829494	0.2876820	0.2588216	0	0.0000000	0	0
## [40,]	0.0000000	0	0.2365694	0.0000000	0.0000000	0	0.0000000	0	0
## [41,]	0.0000000	0	0.2633180	0.6424627	0.2554739	0	0.5055290	0	0
## [42,]	0.3329445	0	0.2997384	0.2202644	0.2539271	0	0.0000000	0	0
## [43,]	0.6560094	0	0.2956882	0.0000000	0.2757094	0	0.0000000	0	0
## [44,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [45,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [46,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [47,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.2811191	0	0
## [48,]	0.1804461	0	0.2565723	0.4361765	0.2903095	0	0.0000000	0	0
## [49,]	0.0000000	0	0.2713484	0.7382630	0.2753693	0	0.0000000	0	0
## [50,]	0.0000000	0	0.0000000	0.3291352	0.0000000	0	0.0000000	0	0
## [51,]	0.0000000	0	0.0000000	0.0000000	0.3414624	0	0.0000000	0	0
## [52,]	0.0000000	0	0.6799589	0.7251676	0.3122110	0	0.0000000	0	0
## [53,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [54,]	0.0000000	0	0.2523596	0.3128023	0.2214386	0	0.2372036	0	0
## [55,]	0.0000000	0	0.0000000	0.0000000	0.3060678	0	0.0000000	0	0
## [56,]	0.0000000	0	0.2893757	0.2498954	0.2375357	0	0.2224497	0	0
## [57,]	0.3028529	0	0.2355425	0.2888753	0.2569895	0	0.0000000	0	0
## [58,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [59,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [60,]	0.2461016	0	0.2534087	0.4003264	0.0000000	0	0.0000000	0	0
## [61,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [62,]	0.0000000	0	0.2559683	0.5342832	0.0000000	0	0.3089899	0	0
## [63,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [64,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [65,]	0.7335944	0	0.3270016	0.0000000	0.2893188	0	0.4144619	0	0
## [66,]	0.0000000	0	0.2125864	0.3493541	0.3153483	0	0.0000000	0	0
## [67,]	0.0000000	0	0.0000000	0.0000000	0.2714492	0	0.0000000	0	0
## [68,]	0.0000000	0	0.0000000	0.2502565	0.2826113	0	0.0000000	0	0
## [69,]	0.0000000	0	0.2639145	0.0000000	0.2796858	0	0.0000000	0	0
## [70,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0
## [71,]	0.0000000	0	0.2398973	0.0000000	0.2175299	0	0.2665185	0	0

##	[,18]	[,19]	[,20]	[,21]	[,22]	[,23]	[,24]	[,25]
## [1,]	0	0.2557243	0.3316238	0.2563230	0	0.2681594	0.2820798	0.0000000
## [2,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [3,]	0	0.2462827	0.0000000	0.0000000	0	0.2817964	0.0000000	0.2589686
## [4,]	0	0.2607220	0.2030741	0.0000000	0	0.2085796	0.0000000	0.0000000
## [5,]	0	0.0000000	0.2549255	0.0000000	0	0.2601246	0.0000000	0.0000000
## [6,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [7,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [8,]	0	0.0000000	0.0000000	0.0000000	0	0.6464148	0.6441309	0.0000000
## [9,]	0	0.2481542	0.0000000	0.2363591	0	0.0000000	0.0000000	0.2647709
## [10,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [11,]	0	0.0000000	0.0000000	0.2482276	0	0.2556310	0.2822729	0.0000000
## [12,]	0	0.6813078	0.0000000	0.0000000	0	0.0000000	0.7201771	0.5022490
## [13,]	0	0.2484076	0.1756223	0.2988677	0	0.2837842	0.2556980	0.0000000
## [14,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [15,]	0	0.3496220	0.3351275	0.0000000	0	0.0000000	0.0000000	0.0000000
## [16,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [17,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [18,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [19,]	0	0.0000000	0.1891663	0.2344651	0	0.0000000	0.5695075	0.0000000
## [20,]	0	0.1891663	0.0000000	0.2515910	0	0.2682288	0.2983331	0.2766755
## [21,]	0	0.2344651	0.2515910	0.0000000	0	0.0000000	0.1833169	0.0000000
## [22,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [23,]	0	0.0000000	0.2682288	0.0000000	0	0.0000000	0.0000000	0.0000000
## [24,]	0	0.5695075	0.2983331	0.1833169	0	0.0000000	0.0000000	0.0000000
## [25,]	0	0.0000000	0.2766755	0.0000000	0	0.0000000	0.0000000	0.0000000
## [26,]	0	0.6212301	0.2186332	0.3002021	0	0.0000000	0.6371872	0.0000000
## [27,]	0	0.0000000	0.2783175	0.2493337	0	0.7140467	0.6402978	0.0000000
## [28,]	0	0.2663400	0.0000000	0.0000000	0	0.0000000	0.3257403	0.2464705
## [29,]	0	0.3082900	0.2288178	0.0000000	0	0.0000000	0.0000000	0.0000000
## [30,]	0	0.2704963	0.2853404	0.0000000	0	0.0000000	0.2359800	0.2323535
## [31,]	0	0.0000000	0.2855551	0.2923073	0	0.0000000	0.3004460	0.0000000
## [32,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [33,]	0	0.0000000	0.0000000	0.2707278	0	0.2404139	0.3462609	0.2805419
## [34,]	0	0.2413335	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [35,]	0	0.3009511	0.2410860	0.0000000	0	0.0000000	0.0000000	0.1985749
## [36,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.6093168	0.0000000
## [37,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [38,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.6332785	0.0000000
## [39,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [40,]	0	0.0000000	0.2412232	0.2614796	0	0.0000000	0.2303416	0.0000000
## [41,]	0	0.0000000	0.0000000	0.2786167	0	0.7060923	0.4051374	0.0000000
## [42,]	0	0.2351363	0.2953177	0.0000000	0	0.0000000	0.2893721	0.0000000
## [43,]	0	0.5853135	0.2836584	0.2096119	0	0.0000000	0.6438609	0.0000000
## [44,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [45,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [46,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [47,]	0	0.0000000	0.0000000	0.0000000	0	0.2871290	0.0000000	0.0000000
## [48,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.3567671	0.0000000
## [49,]	0	0.0000000	0.0000000	0.2707431	0	0.0000000	0.0000000	0.0000000
## [50,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.2968761
## [51,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [52,]	0	0.0000000	0.0000000	0.2653178	0	0.5386633	0.2532650	0.0000000
## [53,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000

## [54,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [55,]	0	0.0000000	0.3107491	0.3109473	0	0.4650424	0.2550539	0.0000000
## [56,]	0	0.0000000	0.2905824	0.2790954	0	0.5453098	0.6000243	0.0000000
## [57,]	0	0.0000000	0.0000000	0.2850032	0	0.0000000	0.6402231	0.0000000
## [58,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [59,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [60,]	0	0.2270370	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [61,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [62,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [63,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [64,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [65,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.3440762	0.0000000
## [66,]	0	0.0000000	0.0000000	0.2651941	0	0.4923072	0.3958699	0.0000000
## [67,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.6198343	0.0000000
## [68,]	0	0.0000000	0.2426335	0.2333438	0	0.0000000	0.0000000	0.0000000
## [69,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [70,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
## [71,]	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000
##	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	
## [1,]	0.2768211	0.2695961	0.0000000	0.2883663	0.2714619	0.0000000	0	
## [2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [3,]	0.0000000	0.0000000	0.2499089	0.0000000	0.2809237	0.0000000	0	
## [4,]	0.2541688	0.3082349	0.2260950	0.3011402	0.0000000	0.2751974	0	
## [5,]	0.2731171	0.2955195	0.3440441	0.0000000	0.0000000	0.2497870	0	
## [6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [8,]	0.7460165	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [9,]	0.2460597	0.2544275	0.0000000	0.3343965	0.0000000	0.0000000	0	
## [10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [11,]	0.2334016	0.3671461	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [12,]	0.3114416	0.2591364	0.3760109	0.2690445	0.0000000	0.2679893	0	
## [13,]	0.2391253	0.2915190	0.2808382	0.0000000	0.0000000	0.2972710	0	
## [14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [15,]	0.2905559	0.2286275	0.2107747	0.2762580	0.0000000	0.2647655	0	
## [16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [19,]	0.6212301	0.0000000	0.2663400	0.3082900	0.2704963	0.0000000	0	
## [20,]	0.2186332	0.2783175	0.0000000	0.2288178	0.2853404	0.2855551	0	
## [21,]	0.3002021	0.2493337	0.0000000	0.0000000	0.0000000	0.2923073	0	
## [22,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [23,]	0.0000000	0.7140467	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [24,]	0.6371872	0.6402978	0.3257403	0.0000000	0.2359800	0.3004460	0	
## [25,]	0.0000000	0.0000000	0.2464705	0.0000000	0.2323535	0.0000000	0	
## [26,]	0.0000000	0.7442871	0.3019852	0.3044762	0.2429408	0.3416028	0	
## [27,]	0.7442871	0.0000000	0.0000000	0.2311059	0.0000000	0.0000000	0	
## [28,]	0.3019852	0.0000000	0.0000000	0.2373115	0.3405800	0.2657385	0	
## [29,]	0.3044762	0.2311059	0.2373115	0.0000000	0.0000000	0.0000000	0	
## [30,]	0.2429408	0.0000000	0.3405800	0.0000000	0.0000000	0.2340075	0	
## [31,]	0.3416028	0.0000000	0.2657385	0.0000000	0.2340075	0.0000000	0	
## [32,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	
## [33,]	0.2705046	0.0000000	0.0000000	0.0000000	0.2598032	0.2464641	0	
## [34,]	0.3004071	0.2862810	0.2640824	0.3427192	0.0000000	0.0000000	0	
## [35,]	0.3113854	0.0000000	0.3236002	0.0000000	0.3335668	0.3443644	0	

```

## [36,] 0.5521506 0.0000000 0.0000000 0.2760698 0.2996272 0.0000000 0
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [38,] 0.6184762 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [39,] 0.6047085 0.0000000 0.0000000 0.0000000 0.3025435 0.0000000 0
## [40,] 0.6085854 0.2375877 0.0000000 0.0000000 0.0000000 0.0000000 0
## [41,] 0.6028506 0.6804914 0.0000000 0.3250910 0.0000000 0.3312879 0
## [42,] 0.4054784 0.2911102 0.3227557 0.2565041 0.2774540 0.0000000 0
## [43,] 0.6736793 0.2726874 0.0000000 0.0000000 0.0000000 0.0000000 0
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2814427 0.0000000 0
## [48,] 0.0000000 0.0000000 0.0000000 0.2583972 0.0000000 0.0000000 0
## [49,] 0.5708848 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [50,] 0.0000000 0.0000000 0.2441393 0.0000000 0.2919252 0.2422659 0
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2968852 0.2937411 0
## [52,] 0.2417180 0.0000000 0.0000000 0.0000000 0.0000000 0.3032836 0
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [54,] 0.2707762 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [55,] 0.3771581 0.2709009 0.0000000 0.0000000 0.0000000 0.2483221 0
## [56,] 0.4659400 0.2952349 0.0000000 0.0000000 0.0000000 0.0000000 0
## [57,] 0.0000000 0.2853091 0.0000000 0.0000000 0.0000000 0.0000000 0
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [60,] 0.4079948 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [62,] 0.4286654 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [65,] 0.2916016 0.2804857 0.0000000 0.0000000 0.2828737 0.0000000 0
## [66,] 0.3547471 0.0000000 0.2592174 0.0000000 0.0000000 0.0000000 0
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [68,] 0.4308679 0.2832449 0.0000000 0.0000000 0.0000000 0.0000000 0
## [69,] 0.5012446 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
##      [,33]      [,34]      [,35]      [,36] [,37]      [,38]      [,39]
## [1,] 0.0000000 0.0000000 0.0000000 0.2935294 0 0.0000000 0.2583935
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000
## [4,] 0.0000000 0.0000000 0.2462465 0.0000000 0 0.0000000 0.0000000
## [5,] 0.2685298 0.0000000 0.2796471 0.0000000 0 0.0000000 0.2529790
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.5827565 0 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000
## [11,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.2829494
## [12,] 0.0000000 0.6784674 0.0000000 0.6879421 0 0.0000000 0.2876820
## [13,] 0.2534797 0.0000000 0.0000000 0.3023615 0 0.3309681 0.2588216
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000
## [15,] 0.0000000 0.0000000 0.2625581 0.2710168 0 0.0000000 0.0000000
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000

```

## [18,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [19,]	0.0000000	0.2413335	0.3009511	0.0000000	0	0.0000000	0.0000000
## [20,]	0.0000000	0.0000000	0.2410860	0.0000000	0	0.0000000	0.0000000
## [21,]	0.2707278	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [22,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [23,]	0.2404139	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [24,]	0.3462609	0.0000000	0.0000000	0.6093168	0	0.6332785	0.0000000
## [25,]	0.2805419	0.0000000	0.1985749	0.0000000	0	0.0000000	0.0000000
## [26,]	0.2705046	0.3004071	0.3113854	0.5521506	0	0.6184762	0.6047085
## [27,]	0.0000000	0.2862810	0.0000000	0.0000000	0	0.0000000	0.0000000
## [28,]	0.0000000	0.2640824	0.3236002	0.0000000	0	0.0000000	0.0000000
## [29,]	0.0000000	0.3427192	0.0000000	0.2760698	0	0.0000000	0.0000000
## [30,]	0.2598032	0.0000000	0.3335668	0.2996272	0	0.0000000	0.3025435
## [31,]	0.2464641	0.0000000	0.3443644	0.0000000	0	0.0000000	0.0000000
## [32,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [33,]	0.0000000	0.2091060	0.2472557	0.0000000	0	0.2692629	0.0000000
## [34,]	0.2091060	0.0000000	0.0000000	0.3217402	0	0.0000000	0.0000000
## [35,]	0.2472557	0.0000000	0.0000000	0.0000000	0	0.2893474	0.0000000
## [36,]	0.0000000	0.3217402	0.0000000	0.0000000	0	0.6210493	0.0000000
## [37,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [38,]	0.2692629	0.0000000	0.2893474	0.6210493	0	0.0000000	0.0000000
## [39,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [40,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2693443	0.2788622
## [41,]	0.3049463	0.0000000	0.0000000	0.5795310	0	0.2635782	0.2102875
## [42,]	0.0000000	0.2951741	0.0000000	0.0000000	0	0.2040034	0.3007327
## [43,]	0.0000000	0.0000000	0.0000000	0.6541014	0	0.0000000	0.0000000
## [44,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [45,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [46,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [47,]	0.0000000	0.0000000	0.0000000	0.3239053	0	0.0000000	0.0000000
## [48,]	0.0000000	0.2421585	0.0000000	0.0000000	0	0.2966766	0.1721462
## [49,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [50,]	0.0000000	0.0000000	0.2998549	0.0000000	0	0.0000000	0.0000000
## [51,]	0.2691883	0.0000000	0.2850148	0.0000000	0	0.2829040	0.3592589
## [52,]	0.0000000	0.0000000	0.0000000	0.4376395	0	0.2892458	0.2813683
## [53,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [54,]	0.3471550	0.0000000	0.0000000	0.4796890	0	0.0000000	0.0000000
## [55,]	0.0000000	0.0000000	0.0000000	0.5279384	0	0.2421366	0.1924493
## [56,]	0.0000000	0.2288874	0.0000000	0.0000000	0	0.3025643	0.2398229
## [57,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2463207	0.2769289
## [58,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [59,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [60,]	0.0000000	0.2896821	0.2692700	0.0000000	0	0.0000000	0.0000000
## [61,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [62,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [63,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [64,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [65,]	0.0000000	0.0000000	0.0000000	0.5045198	0	0.2893280	0.2341250
## [66,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.2590047
## [67,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2405832	0.2625301
## [68,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [69,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.2393040
## [70,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [71,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.2752471



##		[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	[,47]
##	[1,]	0.0000000	0.2253716	0.0000000	0.3136333	0	0	0	0.0000000
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[3,]	0.0000000	0.6380182	0.0000000	0.0000000	0	0	0	0.0000000
##	[4,]	0.0000000	0.2661144	0.2386422	0.0000000	0	0	0	0.0000000
##	[5,]	0.0000000	0.0000000	0.2962613	0.0000000	0	0	0	0.0000000
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[8,]	0.0000000	0.7263547	0.0000000	0.6379541	0	0	0	0.0000000
##	[9,]	0.0000000	0.0000000	0.3329445	0.6560094	0	0	0	0.0000000
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[11,]	0.2365694	0.2633180	0.2997384	0.2956882	0	0	0	0.0000000
##	[12,]	0.0000000	0.6424627	0.2202644	0.0000000	0	0	0	0.0000000
##	[13,]	0.0000000	0.2554739	0.2539271	0.2757094	0	0	0	0.0000000
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[15,]	0.0000000	0.5055290	0.0000000	0.0000000	0	0	0	0.2811191
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[19,]	0.0000000	0.0000000	0.2351363	0.5853135	0	0	0	0.0000000
##	[20,]	0.2412232	0.0000000	0.2953177	0.2836584	0	0	0	0.0000000
##	[21,]	0.2614796	0.2786167	0.0000000	0.2096119	0	0	0	0.0000000
##	[22,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[23,]	0.0000000	0.7060923	0.0000000	0.0000000	0	0	0	0.2871290
##	[24,]	0.2303416	0.4051374	0.2893721	0.6438609	0	0	0	0.0000000
##	[25,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[26,]	0.6085854	0.6028506	0.4054784	0.6736793	0	0	0	0.0000000
##	[27,]	0.2375877	0.6804914	0.2911102	0.2726874	0	0	0	0.0000000
##	[28,]	0.0000000	0.0000000	0.3227557	0.0000000	0	0	0	0.0000000
##	[29,]	0.0000000	0.3250910	0.2565041	0.0000000	0	0	0	0.0000000
##	[30,]	0.0000000	0.0000000	0.2774540	0.0000000	0	0	0	0.2814427
##	[31,]	0.0000000	0.3312879	0.0000000	0.0000000	0	0	0	0.0000000
##	[32,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[33,]	0.0000000	0.3049463	0.0000000	0.0000000	0	0	0	0.0000000
##	[34,]	0.0000000	0.0000000	0.2951741	0.0000000	0	0	0	0.0000000
##	[35,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[36,]	0.0000000	0.5795310	0.0000000	0.6541014	0	0	0	0.3239053
##	[37,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[38,]	0.2693443	0.2635782	0.2040034	0.0000000	0	0	0	0.0000000
##	[39,]	0.2788622	0.2102875	0.3007327	0.0000000	0	0	0	0.0000000
##	[40,]	0.0000000	0.2614748	0.3293045	0.2480329	0	0	0	0.0000000
##	[41,]	0.2614748	0.0000000	0.2346991	0.6967512	0	0	0	0.0000000
##	[42,]	0.3293045	0.2346991	0.0000000	0.0000000	0	0	0	0.0000000
##	[43,]	0.2480329	0.6967512	0.0000000	0.0000000	0	0	0	0.0000000
##	[44,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[45,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[46,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[47,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000
##	[48,]	0.0000000	0.0000000	0.2891871	0.3270531	0	0	0	0.0000000
##	[49,]	0.3436791	0.5480126	0.0000000	0.0000000	0	0	0	0.0000000
##	[50,]	0.0000000	0.2796240	0.3908127	0.0000000	0	0	0	0.0000000
##	[51,]	0.2591026	0.2471207	0.0000000	0.3092367	0	0	0	0.0000000
##	[52,]	0.2695197	0.2920911	0.3353189	0.0000000	0	0	0	0.0000000
##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	0.0000000

##	[54,]	0.2897406	0.3427277	0.0000000	0.0000000	0	0	0 0.0000000
##	[55,]	0.3727014	0.3886462	0.0000000	0.4103189	0	0	0 0.0000000
##	[56,]	0.2592231	0.6294651	0.0000000	0.0000000	0	0	0 0.0000000
##	[57,]	0.3435777	0.5700250	0.0000000	0.5288870	0	0	0 0.0000000
##	[58,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[59,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[60,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[61,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[62,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[63,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[64,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[65,]	0.3199638	0.3039753	0.0000000	0.0000000	0	0	0 0.0000000
##	[66,]	0.2294560	0.3651404	0.0000000	0.0000000	0	0	0 0.0000000
##	[67,]	0.2898824	0.0000000	0.0000000	0.5698574	0	0	0 0.0000000
##	[68,]	0.2547563	0.3757238	0.0000000	0.0000000	0	0	0 0.0000000
##	[69,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[70,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##	[71,]	0.2596936	0.0000000	0.0000000	0.0000000	0	0	0 0.0000000
##		[,48]	[,49]	[,50]	[,51]	[,52]	[,53]	[,54]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.6906409	0	0.2620573
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[3,]	0.0000000	0.6935498	0.0000000	0.0000000	0.5769970	0	0.2794444
##	[4,]	0.0000000	0.0000000	0.0000000	0.0000000	0.6697094	0	0.3427006
##	[5,]	0.0000000	0.0000000	0.2810794	0.2807476	0.5849916	0	0.3121368
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[8,]	0.0000000	0.5184813	0.0000000	0.0000000	0.7353522	0	0.0000000
##	[9,]	0.1804461	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[11,]	0.2565723	0.2713484	0.0000000	0.0000000	0.6799589	0	0.2523596
##	[12,]	0.4361765	0.7382630	0.3291352	0.0000000	0.7251676	0	0.3128023
##	[13,]	0.2903095	0.2753693	0.0000000	0.3414624	0.3122110	0	0.2214386
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2372036
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[19,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[20,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[21,]	0.0000000	0.2707431	0.0000000	0.0000000	0.2653178	0	0.0000000
##	[22,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[23,]	0.0000000	0.0000000	0.0000000	0.0000000	0.5386633	0	0.0000000
##	[24,]	0.3567671	0.0000000	0.0000000	0.0000000	0.2532650	0	0.0000000
##	[25,]	0.0000000	0.0000000	0.2968761	0.0000000	0.0000000	0	0.0000000
##	[26,]	0.0000000	0.5708848	0.0000000	0.0000000	0.2417180	0	0.2707762
##	[27,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[28,]	0.0000000	0.0000000	0.2441393	0.0000000	0.0000000	0	0.0000000
##	[29,]	0.2583972	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[30,]	0.0000000	0.0000000	0.2919252	0.2968852	0.0000000	0	0.0000000
##	[31,]	0.0000000	0.0000000	0.2422659	0.2937411	0.3032836	0	0.0000000
##	[32,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[33,]	0.0000000	0.0000000	0.0000000	0.2691883	0.0000000	0	0.3471550
##	[34,]	0.2421585	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[35,]	0.0000000	0.0000000	0.2998549	0.2850148	0.0000000	0	0.0000000

##	[36,]	0.0000000	0.0000000	0.0000000	0.0000000	0.4376395	0	0.4796890		
##	[37,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[38,]	0.2966766	0.0000000	0.0000000	0.2829040	0.2892458	0	0.0000000		
##	[39,]	0.1721462	0.0000000	0.0000000	0.3592589	0.2813683	0	0.0000000		
##	[40,]	0.0000000	0.3436791	0.0000000	0.2591026	0.2695197	0	0.2897406		
##	[41,]	0.0000000	0.5480126	0.2796240	0.2471207	0.2920911	0	0.3427277		
##	[42,]	0.2891871	0.0000000	0.3908127	0.0000000	0.3353189	0	0.0000000		
##	[43,]	0.3270531	0.0000000	0.0000000	0.3092367	0.0000000	0	0.0000000		
##	[44,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[45,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[46,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[47,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[48,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[49,]	0.0000000	0.0000000	0.0000000	0.3000127	0.4597110	0	0.0000000		
##	[50,]	0.0000000	0.0000000	0.0000000	0.2745964	0.0000000	0	0.0000000		
##	[51,]	0.0000000	0.3000127	0.2745964	0.0000000	0.3045406	0	0.3220661		
##	[52,]	0.0000000	0.4597110	0.0000000	0.3045406	0.0000000	0	0.4083278		
##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[54,]	0.0000000	0.0000000	0.0000000	0.3220661	0.4083278	0	0.0000000		
##	[55,]	0.0000000	0.5808316	0.0000000	0.0000000	0.4384172	0	0.2806046		
##	[56,]	0.0000000	0.0000000	0.0000000	0.2735055	0.6088058	0	0.3177953		
##	[57,]	0.0000000	0.0000000	0.0000000	0.2339427	0.6503026	0	0.0000000		
##	[58,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[59,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[60,]	0.0000000	0.0000000	0.0000000	0.2466759	0.0000000	0	0.0000000		
##	[61,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[62,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[63,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[64,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[65,]	0.0000000	0.4863729	0.0000000	0.0000000	0.3502968	0	0.2285554		
##	[66,]	0.0000000	0.4640457	0.2904193	0.0000000	0.3935197	0	0.2481673		
##	[67,]	0.0000000	0.5212774	0.0000000	0.0000000	0.6336898	0	0.2761637		
##	[68,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.3012469		
##	[69,]	0.0000000	0.4242177	0.0000000	0.0000000	0.0000000	0	0.3501775		
##	[70,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000		
##	[71,]	0.0000000	0.5255981	0.0000000	0.0000000	0.4995354	0	0.0000000		
##		[,55]	[,56]	[,57]	[,58]	[,59]	[,60]	[,61]	[,62]	[,63]
##	[1,]	0.0000000	0.2525731	0.3441318	0	0	0.0000000	0	0.0000000	0
##	[2,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
##	[3,]	0.2669893	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
##	[4,]	0.0000000	0.0000000	0.0000000	0	0	0.1955336	0	0.2606786	0
##	[5,]	0.0000000	0.2944790	0.0000000	0	0	0.0000000	0	0.0000000	0
##	[6,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
##	[7,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
##	[8,]	0.0000000	0.0000000	0.2773832	0	0	0.2655542	0	0.0000000	0
##	[9,]	0.0000000	0.0000000	0.3028529	0	0	0.2461016	0	0.0000000	0
##	[10,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
##	[11,]	0.0000000	0.2893757	0.2355425	0	0	0.2534087	0	0.2559683	0
##	[12,]	0.0000000	0.2498954	0.2888753	0	0	0.4003264	0	0.5342832	0
##	[13,]	0.3060678	0.2375357	0.2569895	0	0	0.0000000	0	0.0000000	0
##	[14,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
##	[15,]	0.0000000	0.2224497	0.0000000	0	0	0.0000000	0	0.3089899	0
##	[16,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
##	[17,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0

## [18,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [19,]	0.0000000	0.0000000	0.0000000	0	0	0.2270370	0	0.0000000	0
## [20,]	0.3107491	0.2905824	0.0000000	0	0	0.0000000	0	0.0000000	0
## [21,]	0.3109473	0.2790954	0.2850032	0	0	0.0000000	0	0.0000000	0
## [22,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [23,]	0.4650424	0.5453098	0.0000000	0	0	0.0000000	0	0.0000000	0
## [24,]	0.2550539	0.6000243	0.6402231	0	0	0.0000000	0	0.0000000	0
## [25,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [26,]	0.3771581	0.4659400	0.0000000	0	0	0.4079948	0	0.4286654	0
## [27,]	0.2709009	0.2952349	0.2853091	0	0	0.0000000	0	0.0000000	0
## [28,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [29,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [30,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [31,]	0.2483221	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [32,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [33,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [34,]	0.0000000	0.2288874	0.0000000	0	0	0.2896821	0	0.0000000	0
## [35,]	0.0000000	0.0000000	0.0000000	0	0	0.2692700	0	0.0000000	0
## [36,]	0.5279384	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [37,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [38,]	0.2421366	0.3025643	0.2463207	0	0	0.0000000	0	0.0000000	0
## [39,]	0.1924493	0.2398229	0.2769289	0	0	0.0000000	0	0.0000000	0
## [40,]	0.3727014	0.2592231	0.3435777	0	0	0.0000000	0	0.0000000	0
## [41,]	0.3886462	0.6294651	0.5700250	0	0	0.0000000	0	0.0000000	0
## [42,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [43,]	0.4103189	0.0000000	0.5288870	0	0	0.0000000	0	0.0000000	0
## [44,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [45,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [46,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [47,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [48,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [49,]	0.5808316	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [50,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [51,]	0.0000000	0.2735055	0.2339427	0	0	0.2466759	0	0.0000000	0
## [52,]	0.4384172	0.6088058	0.6503026	0	0	0.0000000	0	0.0000000	0
## [53,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [54,]	0.2806046	0.3177953	0.0000000	0	0	0.0000000	0	0.0000000	0
## [55,]	0.0000000	0.2558045	0.3243899	0	0	0.0000000	0	0.0000000	0
## [56,]	0.2558045	0.0000000	0.2637727	0	0	0.0000000	0	0.3558374	0
## [57,]	0.3243899	0.2637727	0.0000000	0	0	0.0000000	0	0.2521756	0
## [58,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [59,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [60,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.1853005	0
## [61,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [62,]	0.0000000	0.3558374	0.2521756	0	0	0.1853005	0	0.0000000	0
## [63,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [64,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [65,]	0.2178853	0.2121465	0.2730578	0	0	0.0000000	0	0.2788534	0
## [66,]	0.3231836	0.2869540	0.2149152	0	0	0.0000000	0	0.2271768	0
## [67,]	0.2842283	0.2585927	0.2851309	0	0	0.0000000	0	0.0000000	0
## [68,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [69,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.2441205	0
## [70,]	0.0000000	0.0000000	0.0000000	0	0	0.0000000	0	0.0000000	0
## [71,]	0.2702906	0.2523634	0.2965611	0	0	0.0000000	0	0.0000000	0

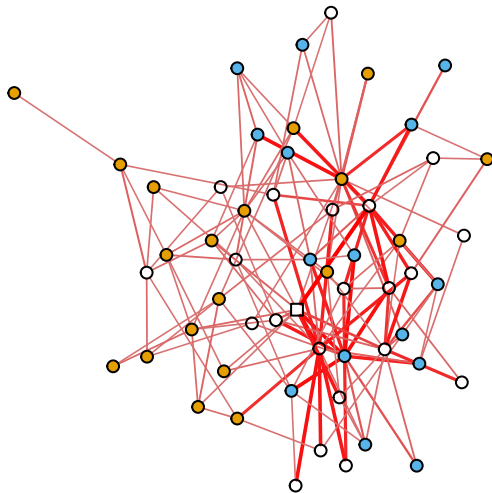
##	[,64]	[,65]	[,66]	[,67]	[,68]	[,69]	[,70]	[,71]
## [1,]	0	0.6874944	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [2,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [3,]	0	0.5967384	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [4,]	0	0.2492309	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [5,]	0	0.5236712	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [6,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [7,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [8,]	0	0.5991516	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [9,]	0	0.7335944	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [10,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [11,]	0	0.3270016	0.2125864	0.0000000	0.0000000	0.2639145	0	0.2398973
## [12,]	0	0.0000000	0.3493541	0.0000000	0.2502565	0.0000000	0	0.0000000
## [13,]	0	0.2893188	0.3153483	0.2714492	0.2826113	0.2796858	0	0.2175299
## [14,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [15,]	0	0.4144619	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2665185
## [16,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [17,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [18,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [19,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [20,]	0	0.0000000	0.0000000	0.0000000	0.2426335	0.0000000	0	0.0000000
## [21,]	0	0.0000000	0.2651941	0.0000000	0.2333438	0.0000000	0	0.0000000
## [22,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [23,]	0	0.0000000	0.4923072	0.0000000	0.0000000	0.0000000	0	0.0000000
## [24,]	0	0.3440762	0.3958699	0.6198343	0.0000000	0.0000000	0	0.0000000
## [25,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [26,]	0	0.2916016	0.3547471	0.0000000	0.4308679	0.5012446	0	0.0000000
## [27,]	0	0.2804857	0.0000000	0.0000000	0.2832449	0.0000000	0	0.0000000
## [28,]	0	0.0000000	0.2592174	0.0000000	0.0000000	0.0000000	0	0.0000000
## [29,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [30,]	0	0.2828737	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [31,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [32,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [33,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [34,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [35,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [36,]	0	0.5045198	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [37,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [38,]	0	0.2893280	0.0000000	0.2405832	0.0000000	0.0000000	0	0.0000000
## [39,]	0	0.2341250	0.2590047	0.2625301	0.0000000	0.2393040	0	0.2752471
## [40,]	0	0.3199638	0.2294560	0.2898824	0.2547563	0.0000000	0	0.2596936
## [41,]	0	0.3039753	0.3651404	0.0000000	0.3757238	0.0000000	0	0.0000000
## [42,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [43,]	0	0.0000000	0.0000000	0.5698574	0.0000000	0.0000000	0	0.0000000
## [44,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [45,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [46,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [47,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [48,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [49,]	0	0.4863729	0.4640457	0.5212774	0.0000000	0.4242177	0	0.5255981
## [50,]	0	0.0000000	0.2904193	0.0000000	0.0000000	0.0000000	0	0.0000000
## [51,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
## [52,]	0	0.3502968	0.3935197	0.6336898	0.0000000	0.0000000	0	0.4995354
## [53,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000

```

## [54,] 0 0.2285554 0.2481673 0.2761637 0.3012469 0.3501775 0 0.0000000
## [55,] 0 0.2178853 0.3231836 0.2842283 0.0000000 0.0000000 0 0.2702906
## [56,] 0 0.2121465 0.2869540 0.2585927 0.0000000 0.0000000 0 0.2523634
## [57,] 0 0.2730578 0.2149152 0.2851309 0.0000000 0.0000000 0 0.2965611
## [58,] 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [59,] 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [60,] 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [61,] 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [62,] 0 0.2788534 0.2271768 0.0000000 0.0000000 0.2441205 0 0.0000000
## [63,] 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [64,] 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [65,] 0 0.0000000 0.3583482 0.0000000 0.2928320 0.4725963 0 0.3876008
## [66,] 0 0.3583482 0.0000000 0.3172298 0.2842223 0.2507798 0 0.2562500
## [67,] 0 0.0000000 0.3172298 0.0000000 0.2863219 0.3732100 0 0.2539378
## [68,] 0 0.2928320 0.2842223 0.2863219 0.0000000 0.3009970 0 0.2501705
## [69,] 0 0.4725963 0.2507798 0.3732100 0.3009970 0.0000000 0 0.2293015
## [70,] 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000
## [71,] 0 0.3876008 0.2562500 0.2539378 0.2501705 0.2293015 0 0.0000000

```

```
vis.motif(motif.graphs,70L,c1,threshold=0.3)
```



```

##      [,1] [,2] [,3]      [,4] [,5] [,6] [,7] [,8] [,9] [,10]      [,11]
## [1,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [2,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [3,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [4,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [5,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [6,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [7,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [8,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [9,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [10,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [11,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [12,] 0    0    0 0.2467435 0    0    0    0    0    0 0.3306374
## [13,] 0    0    0 0.3246999 0    0    0    0    0    0 0.0000000
## [14,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [15,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [16,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000
## [17,] 0    0    0 0.0000000 0    0    0    0    0    0 0.0000000

```

## [18,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [19,]	0	0	0 0.2123275	0	0	0	0	0	0 0.0000000
## [20,]	0	0	0 0.2127035	0	0	0	0	0	0 0.0000000
## [21,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2756533
## [22,]	0	0	0 0.2634208	0	0	0	0	0	0 0.0000000
## [23,]	0	0	0 0.2582246	0	0	0	0	0	0 0.2952431
## [24,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2372083
## [25,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [26,]	0	0	0 0.2863123	0	0	0	0	0	0 0.2911816
## [27,]	0	0	0 0.2106571	0	0	0	0	0	0 0.2500285
## [28,]	0	0	0 0.2964905	0	0	0	0	0	0 0.0000000
## [29,]	0	0	0 0.2698349	0	0	0	0	0	0 0.0000000
## [30,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [31,]	0	0	0 0.2794275	0	0	0	0	0	0 0.0000000
## [32,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [33,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [34,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [35,]	0	0	0 0.3216490	0	0	0	0	0	0 0.0000000
## [36,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [37,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [38,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [39,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2203472
## [40,]	0	0	0 0.0000000	0	0	0	0	0	0 0.3141447
## [41,]	0	0	0 0.2216623	0	0	0	0	0	0 0.2477529
## [42,]	0	0	0 0.2738287	0	0	0	0	0	0 0.2837537
## [43,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2710850
## [44,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [45,]	0	0	0 0.2607725	0	0	0	0	0	0 0.0000000
## [46,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [47,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [48,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2480062
## [49,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2447286
## [50,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [51,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [52,]	0	0	0 0.2625819	0	0	0	0	0	0 0.2937762
## [53,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [54,]	0	0	0 0.2675825	0	0	0	0	0	0 0.2413026
## [55,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [56,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2337991
## [57,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2416599
## [58,]	0	0	0 0.0000000	0	0	0	0	0	0 0.3024895
## [59,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [60,]	0	0	0 0.2449739	0	0	0	0	0	0 0.2955896
## [61,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [62,]	0	0	0 0.2420152	0	0	0	0	0	0 0.2946395
## [63,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [64,]	0	0	0 0.2432342	0	0	0	0	0	0 0.0000000
## [65,]	0	0	0 0.2634391	0	0	0	0	0	0 0.2275027
## [66,]	0	0	0 0.0000000	0	0	0	0	0	0 0.2634008
## [67,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [68,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [69,]	0	0	0 0.0000000	0	0	0	0	0	0 0.3381156
## [70,]	0	0	0 0.0000000	0	0	0	0	0	0 0.0000000
## [71,]	0	0	0 0.0000000	0	0	0	0	0	0 0.3734342

##		[,12]	[,13]	[,14]	[,15]	[,16]	[,17]	[,18]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[4,]	0.2467435	0.3246999	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[11,]	0.3306374	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[12,]	0.0000000	0.2721743	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[13,]	0.2721743	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[19,]	0.2339159	0.3741646	0.0000000	0.2830413	0.0000000	0.3468525	0
##	[20,]	0.0000000	0.3063068	0.3324225	0.2829563	0.0000000	0.0000000	0
##	[21,]	0.0000000	0.3155384	0.0000000	0.0000000	0.0000000	0.3028078	0
##	[22,]	0.0000000	0.0000000	0.0000000	0.6190753	0.4757113	0.2982455	0
##	[23,]	0.0000000	0.3532206	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[24,]	0.2600613	0.2371946	0.0000000	0.0000000	0.0000000	0.2833034	0
##	[25,]	0.2651392	0.0000000	0.4348678	0.0000000	0.0000000	0.3524588	0
##	[26,]	0.2599867	0.3023003	0.0000000	0.3076374	0.3153834	0.3044303	0
##	[27,]	0.3361702	0.2717170	0.0000000	0.2418151	0.2253680	0.0000000	0
##	[28,]	0.2851845	0.2915713	0.4164954	0.3271018	0.2960513	0.3376521	0
##	[29,]	0.2605792	0.0000000	0.0000000	0.2262397	0.3042828	0.2434558	0
##	[30,]	0.0000000	0.0000000	0.7117448	0.0000000	0.0000000	0.2137896	0
##	[31,]	0.2801839	0.2604848	0.0000000	0.3058813	0.0000000	0.0000000	0
##	[32,]	0.0000000	0.0000000	0.6353385	0.3604094	0.3956021	0.0000000	0
##	[33,]	0.0000000	0.3390923	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[34,]	0.2825513	0.0000000	0.0000000	0.0000000	0.2489533	0.2704994	0
##	[35,]	0.0000000	0.0000000	0.6420516	0.3825033	0.0000000	0.0000000	0
##	[36,]	0.2612620	0.3977704	0.0000000	0.6322906	0.0000000	0.0000000	0
##	[37,]	0.0000000	0.0000000	0.0000000	0.6768515	0.0000000	0.0000000	0
##	[38,]	0.0000000	0.4484157	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[39,]	0.2514789	0.2566114	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[40,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[41,]	0.3782675	0.2444106	0.0000000	0.2473686	0.0000000	0.0000000	0
##	[42,]	0.1993282	0.2461451	0.5949931	0.0000000	0.6120750	0.2785470	0
##	[43,]	0.0000000	0.2993439	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[44,]	0.0000000	0.0000000	0.0000000	0.6381989	0.6437725	0.6662755	0
##	[45,]	0.2872520	0.0000000	0.0000000	0.0000000	0.0000000	0.5975429	0
##	[46,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[47,]	0.0000000	0.0000000	0.0000000	0.6940665	0.0000000	0.0000000	0
##	[48,]	0.2605072	0.5572857	0.7041041	0.0000000	0.6824266	0.5579557	0
##	[49,]	0.1789917	0.2628416	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[50,]	0.2905337	0.0000000	0.7209191	0.0000000	0.0000000	0.0000000	0
##	[51,]	0.0000000	0.2390966	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[52,]	0.3258066	0.2367796	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0.4369998	0.0000000	0



```

## [54,] 0.2374052 0.2122891 0.0000000 0.2859418 0.0000000 0.0000000 0
## [55,] 0.0000000 0.2956882 0.0000000 0.0000000 0.6669562 0.0000000 0
## [56,] 0.2714386 0.1715043 0.0000000 0.3360103 0.0000000 0.0000000 0
## [57,] 0.2713264 0.2452914 0.0000000 0.0000000 0.0000000 0.0000000 0
## [58,] 0.2720270 0.6934484 0.0000000 0.0000000 0.0000000 0.0000000 0
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [60,] 0.2138127 0.0000000 0.0000000 0.0000000 0.6417608 0.4648888 0
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [62,] 0.3042537 0.0000000 0.0000000 0.5752960 0.0000000 0.0000000 0
## [63,] 0.0000000 0.0000000 0.6086728 0.6769494 0.0000000 0.0000000 0
## [64,] 0.2743466 0.5885221 0.0000000 0.0000000 0.6522721 0.2130645 0
## [65,] 0.0000000 0.2116166 0.0000000 0.2909840 0.0000000 0.0000000 0
## [66,] 0.2224053 0.2486701 0.0000000 0.0000000 0.2972393 0.3154918 0
## [67,] 0.0000000 0.2851329 0.0000000 0.0000000 0.2203618 0.2727996 0
## [68,] 0.3046004 0.3290148 0.2821785 0.0000000 0.2842753 0.2343836 0
## [69,] 0.0000000 0.2765625 0.6515889 0.0000000 0.0000000 0.3649412 0
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [71,] 0.0000000 0.3054912 0.7124979 0.7271519 0.7599955 0.4931318 0
##      [,19]      [,20]      [,21]      [,22]      [,23]      [,24]      [,25]
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.2123275 0.2127035 0.0000000 0.2634208 0.2582246 0.0000000 0.0000000
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000 0.0000000 0.2756533 0.0000000 0.2952431 0.2372083 0.0000000
## [12,] 0.2339159 0.0000000 0.0000000 0.0000000 0.0000000 0.2600613 0.2651392
## [13,] 0.3741646 0.3063068 0.3155384 0.0000000 0.3532206 0.2371946 0.0000000
## [14,] 0.0000000 0.3324225 0.0000000 0.0000000 0.0000000 0.0000000 0.4348678
## [15,] 0.2830413 0.2829563 0.0000000 0.6190753 0.0000000 0.0000000 0.0000000
## [16,] 0.0000000 0.0000000 0.0000000 0.4757113 0.0000000 0.0000000 0.0000000
## [17,] 0.3468525 0.0000000 0.3028078 0.2982455 0.0000000 0.2833034 0.3524588
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.2995172 0.2863027 0.2230718 0.0000000 0.2549999 0.0000000
## [20,] 0.2995172 0.0000000 0.2449743 0.2750827 0.2888894 0.2678796 0.2518155
## [21,] 0.2863027 0.2449743 0.0000000 0.0000000 0.0000000 0.2745383 0.0000000
## [22,] 0.2230718 0.2750827 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [23,] 0.0000000 0.2888894 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.2549999 0.2678796 0.2745383 0.0000000 0.0000000 0.0000000 0.0000000
## [25,] 0.0000000 0.2518155 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [26,] 0.2702784 0.2710882 0.2754301 0.2393725 0.0000000 0.2682499 0.0000000
## [27,] 0.0000000 0.3017055 0.2886058 0.0000000 0.2614042 0.2638715 0.0000000
## [28,] 0.2151029 0.0000000 0.0000000 0.2647879 0.0000000 0.2497141 0.2531210
## [29,] 0.2587507 0.2861046 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.2522432 0.2812727 0.0000000 0.2841815 0.0000000 0.2829822 0.2715720
## [31,] 0.0000000 0.2683415 0.2775514 0.2555697 0.0000000 0.3480748 0.0000000
## [32,] 0.2191059 0.0000000 0.0000000 0.2631098 0.0000000 0.0000000 0.0000000
## [33,] 0.0000000 0.0000000 0.2155659 0.3367663 0.3062553 0.2999669 0.2902632
## [34,] 0.2606331 0.0000000 0.0000000 0.2195665 0.0000000 0.0000000 0.0000000
## [35,] 0.2722211 0.2282116 0.0000000 0.0000000 0.0000000 0.0000000 0.2408644

```

```

## [36,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2917090 0.0000000
## [37,] 0.3063884 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2482824 0.0000000
## [39,] 0.0000000 0.0000000 0.0000000 0.2635631 0.0000000 0.0000000 0.0000000
## [40,] 0.0000000 0.2601580 0.3236403 0.0000000 0.0000000 0.3371566 0.0000000
## [41,] 0.0000000 0.0000000 0.2539992 0.3042977 0.2859443 0.3013406 0.0000000
## [42,] 0.2493448 0.1961622 0.0000000 0.0000000 0.0000000 0.2686462 0.0000000
## [43,] 0.2753473 0.2530180 0.2937368 0.0000000 0.0000000 0.2564116 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.2463799 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2976908
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.2580577 0.2517231 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2056520 0.0000000
## [49,] 0.0000000 0.0000000 0.2748066 0.2140149 0.0000000 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2516266
## [51,] 0.0000000 0.0000000 0.0000000 0.3315094 0.0000000 0.0000000 0.0000000
## [52,] 0.0000000 0.0000000 0.2988788 0.0000000 0.2598157 0.2672734 0.0000000
## [53,] 0.2476967 0.0000000 0.0000000 0.0000000 0.0000000 0.2984040 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.2700631 0.0000000 0.0000000 0.0000000
## [55,] 0.0000000 0.1794039 0.2838981 0.2498672 0.3005263 0.2988765 0.0000000
## [56,] 0.0000000 0.2625347 0.2905029 0.2504509 0.2798504 0.3068021 0.0000000
## [57,] 0.0000000 0.0000000 0.2798893 0.0000000 0.0000000 0.2945997 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.3095159 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2728520
## [64,] 0.2680991 0.0000000 0.0000000 0.2403298 0.0000000 0.2760566 0.0000000
## [65,] 0.0000000 0.0000000 0.0000000 0.2753628 0.0000000 0.2506533 0.0000000
## [66,] 0.0000000 0.0000000 0.3152286 0.2454134 0.2290063 0.2778057 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3148703 0.0000000
## [68,] 0.0000000 0.2339201 0.2956684 0.2409778 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.2756035 0.0000000 0.0000000 0.0000000
##      [,26]      [,27]      [,28]      [,29]      [,30]      [,31]      [,32]
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.2863123 0.2106571 0.2964905 0.2698349 0.0000000 0.2794275 0.0000000
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.2911816 0.2500285 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [12,] 0.2599867 0.3361702 0.2851845 0.2605792 0.0000000 0.2801839 0.0000000
## [13,] 0.3023003 0.2717170 0.2915713 0.0000000 0.0000000 0.2604848 0.0000000
## [14,] 0.0000000 0.0000000 0.4164954 0.0000000 0.7117448 0.0000000 0.6353385
## [15,] 0.3076374 0.2418151 0.3271018 0.2262397 0.0000000 0.3058813 0.3604094
## [16,] 0.3153834 0.2253680 0.2960513 0.3042828 0.0000000 0.0000000 0.3956021
## [17,] 0.3044303 0.0000000 0.3376521 0.2434558 0.2137896 0.0000000 0.0000000

```

```

## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.2702784 0.0000000 0.2151029 0.2587507 0.2522432 0.0000000 0.2191059
## [20,] 0.2710882 0.3017055 0.0000000 0.2861046 0.2812727 0.2683415 0.0000000
## [21,] 0.2754301 0.2886058 0.0000000 0.0000000 0.0000000 0.2775514 0.0000000
## [22,] 0.2393725 0.0000000 0.2647879 0.0000000 0.2841815 0.2555697 0.2631098
## [23,] 0.0000000 0.2614042 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.2682499 0.2638715 0.2497141 0.0000000 0.2829822 0.3480748 0.0000000
## [25,] 0.0000000 0.0000000 0.2531210 0.0000000 0.2715720 0.0000000 0.0000000
## [26,] 0.0000000 0.2682504 0.2099012 0.3203273 0.2421859 0.2621020 0.2498553
## [27,] 0.2682504 0.0000000 0.0000000 0.2024767 0.0000000 0.0000000 0.0000000
## [28,] 0.2099012 0.0000000 0.0000000 0.2509258 0.3023267 0.2837463 0.2856990
## [29,] 0.3203273 0.2024767 0.2509258 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.2421859 0.0000000 0.3023267 0.0000000 0.0000000 0.3005841 0.2539109
## [31,] 0.2621020 0.0000000 0.2837463 0.0000000 0.3005841 0.0000000 0.3216075
## [32,] 0.2498553 0.0000000 0.2856990 0.0000000 0.2539109 0.3216075 0.0000000
## [33,] 0.2817512 0.0000000 0.0000000 0.0000000 0.2929187 0.2601148 0.2450471
## [34,] 0.2948938 0.2493531 0.2747450 0.3068666 0.0000000 0.0000000 0.0000000
## [35,] 0.2907451 0.0000000 0.2994895 0.0000000 0.2702881 0.2232902 0.2788014
## [36,] 0.2921966 0.0000000 0.0000000 0.3504793 0.2126931 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.2865439 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.2645727 0.0000000 0.0000000 0.0000000 0.2161601 0.0000000 0.0000000
## [40,] 0.2889310 0.1876938 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [41,] 0.2614977 0.2507875 0.0000000 0.2958063 0.0000000 0.2409199 0.0000000
## [42,] 0.3221486 0.2840763 0.2409880 0.2395513 0.3174982 0.0000000 0.0000000
## [43,] 0.2845419 0.2597939 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.2455368 0.2640756 0.0000000 0.0000000 0.0000000
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3060333 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.2703374 0.0000000 0.0000000 0.0000000
## [49,] 0.2161174 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.2639325 0.0000000 0.1982031 0.2841341 0.3004626
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2282017 0.2705554 0.3562529
## [52,] 0.2092098 0.0000000 0.0000000 0.0000000 0.0000000 0.3095276 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.1981475 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [55,] 0.2584166 0.2182419 0.0000000 0.0000000 0.0000000 0.2667867 0.0000000
## [56,] 0.2191266 0.2754058 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [57,] 0.0000000 0.2819786 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [58,] 0.0000000 0.0000000 0.2614721 0.0000000 0.1993100 0.3682131 0.1902395
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.3145858 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.2513032 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.2944791 0.0000000 0.2887585 0.2175160 0.2878283
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.2998445 0.3096439 0.0000000 0.0000000 0.3092994 0.0000000 0.0000000
## [66,] 0.2927873 0.0000000 0.3067895 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.2525110 0.2506537 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.2968582 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

```

##		[,33]	[,34]	[,35]	[,36]	[,37]	[,38]	[,39]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[4,]	0.0000000	0.0000000	0.3216490	0.0000000	0.0000000	0.0000000	0.0000000
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[11,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2203472
##	[12,]	0.0000000	0.2825513	0.0000000	0.2612620	0.0000000	0.0000000	0.2514789
##	[13,]	0.3390923	0.0000000	0.0000000	0.3977704	0.0000000	0.4484157	0.2566114
##	[14,]	0.0000000	0.0000000	0.6420516	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0.0000000	0.0000000	0.3825033	0.6322906	0.6768515	0.0000000	0.0000000
##	[16,]	0.0000000	0.2489533	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[17,]	0.0000000	0.2704994	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[19,]	0.0000000	0.2606331	0.2722211	0.0000000	0.3063884	0.0000000	0.0000000
##	[20,]	0.0000000	0.0000000	0.2282116	0.0000000	0.0000000	0.0000000	0.0000000
##	[21,]	0.2155659	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[22,]	0.3367663	0.2195665	0.0000000	0.0000000	0.0000000	0.0000000	0.2635631
##	[23,]	0.3062553	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[24,]	0.2999669	0.0000000	0.0000000	0.2917090	0.0000000	0.2482824	0.0000000
##	[25,]	0.2902632	0.0000000	0.2408644	0.0000000	0.0000000	0.0000000	0.0000000
##	[26,]	0.2817512	0.2948938	0.2907451	0.2921966	0.0000000	0.2865439	0.2645727
##	[27,]	0.0000000	0.2493531	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[28,]	0.0000000	0.2747450	0.2994895	0.0000000	0.0000000	0.0000000	0.0000000
##	[29,]	0.0000000	0.3068666	0.0000000	0.3504793	0.0000000	0.0000000	0.0000000
##	[30,]	0.2929187	0.0000000	0.2702881	0.2126931	0.0000000	0.0000000	0.2161601
##	[31,]	0.2601148	0.0000000	0.2232902	0.0000000	0.0000000	0.0000000	0.0000000
##	[32,]	0.2450471	0.0000000	0.2788014	0.0000000	0.0000000	0.0000000	0.0000000
##	[33,]	0.0000000	0.2417254	0.2332008	0.0000000	0.0000000	0.2469251	0.0000000
##	[34,]	0.2417254	0.0000000	0.0000000	0.2992658	0.0000000	0.0000000	0.0000000
##	[35,]	0.2332008	0.0000000	0.0000000	0.0000000	0.0000000	0.2450080	0.0000000
##	[36,]	0.0000000	0.2992658	0.0000000	0.0000000	0.0000000	0.3714070	0.0000000
##	[37,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[38,]	0.2469251	0.0000000	0.2450080	0.3714070	0.0000000	0.0000000	0.0000000
##	[39,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[40,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2267093	0.1995792
##	[41,]	0.2774839	0.0000000	0.0000000	0.2697107	0.0000000	0.2430546	0.2406290
##	[42,]	0.0000000	0.2495389	0.0000000	0.0000000	0.2777979	0.2843824	0.2736019
##	[43,]	0.0000000	0.0000000	0.0000000	0.2303836	0.0000000	0.0000000	0.0000000
##	[44,]	0.0000000	0.3779162	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[45,]	0.0000000	0.2529836	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[46,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[47,]	0.0000000	0.0000000	0.0000000	0.2648752	0.2478924	0.0000000	0.0000000
##	[48,]	0.0000000	0.2369890	0.0000000	0.0000000	0.0000000	0.2283560	0.2558441
##	[49,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[50,]	0.0000000	0.0000000	0.2686768	0.0000000	0.2125658	0.0000000	0.0000000
##	[51,]	0.2937056	0.0000000	0.2592147	0.0000000	0.0000000	0.2663515	0.2655500
##	[52,]	0.0000000	0.0000000	0.0000000	0.2974489	0.0000000	0.2714352	0.2917112
##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

```

## [54,] 0.2287815 0.0000000 0.0000000 0.2337495 0.0000000 0.0000000 0.0000000
## [55,] 0.0000000 0.0000000 0.0000000 0.2767772 0.0000000 0.2348057 0.2315052
## [56,] 0.0000000 0.2229799 0.0000000 0.0000000 0.0000000 0.2720769 0.2715961
## [57,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2764705 0.2815413
## [58,] 0.2185357 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.2629707 0.3102399 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3109422 0.0000000 0.0000000
## [63,] 0.2264248 0.0000000 0.2936434 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.0000000 0.3057745 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.0000000 0.0000000 0.0000000 0.3338335 0.0000000 0.2908068 0.3024226
## [66,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2773821
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2640309 0.3410737
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2701792
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2723872
##      [,40]      [,41]      [,42]      [,43]      [,44]      [,45] [,46]
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [4,] 0.0000000 0.2216623 0.2738287 0.0000000 0.0000000 0.2607725 0
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [11,] 0.3141447 0.2477529 0.2837537 0.2710850 0.0000000 0.0000000 0
## [12,] 0.0000000 0.3782675 0.1993282 0.0000000 0.0000000 0.2872520 0
## [13,] 0.0000000 0.2444106 0.2461451 0.2993439 0.0000000 0.0000000 0
## [14,] 0.0000000 0.0000000 0.5949931 0.0000000 0.0000000 0.0000000 0
## [15,] 0.0000000 0.2473686 0.0000000 0.0000000 0.6381989 0.0000000 0
## [16,] 0.0000000 0.0000000 0.6120750 0.0000000 0.6437725 0.0000000 0
## [17,] 0.0000000 0.0000000 0.2785470 0.0000000 0.6662755 0.5975429 0
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [19,] 0.0000000 0.0000000 0.2493448 0.2753473 0.0000000 0.2463799 0
## [20,] 0.2601580 0.0000000 0.1961622 0.2530180 0.0000000 0.0000000 0
## [21,] 0.3236403 0.2539992 0.0000000 0.2937368 0.0000000 0.0000000 0
## [22,] 0.0000000 0.3042977 0.0000000 0.0000000 0.0000000 0.0000000 0
## [23,] 0.0000000 0.2859443 0.0000000 0.0000000 0.0000000 0.0000000 0
## [24,] 0.3371566 0.3013406 0.2686462 0.2564116 0.0000000 0.0000000 0
## [25,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2976908 0
## [26,] 0.2889310 0.2614977 0.3221486 0.2845419 0.0000000 0.0000000 0
## [27,] 0.1876938 0.2507875 0.2840763 0.2597939 0.0000000 0.0000000 0
## [28,] 0.0000000 0.0000000 0.2409880 0.0000000 0.0000000 0.2455368 0
## [29,] 0.0000000 0.2958063 0.2395513 0.0000000 0.0000000 0.2640756 0
## [30,] 0.0000000 0.0000000 0.3174982 0.0000000 0.0000000 0.0000000 0
## [31,] 0.0000000 0.2409199 0.0000000 0.0000000 0.0000000 0.0000000 0
## [32,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [33,] 0.0000000 0.2774839 0.0000000 0.0000000 0.0000000 0.0000000 0
## [34,] 0.0000000 0.0000000 0.2495389 0.0000000 0.3779162 0.2529836 0
## [35,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0

```

```

## [36,] 0.0000000 0.2697107 0.0000000 0.2303836 0.0000000 0.0000000 0
## [37,] 0.0000000 0.0000000 0.2777979 0.0000000 0.0000000 0.0000000 0
## [38,] 0.2267093 0.2430546 0.2843824 0.0000000 0.0000000 0.0000000 0
## [39,] 0.1995792 0.2406290 0.2736019 0.0000000 0.0000000 0.0000000 0
## [40,] 0.0000000 0.2139134 0.3213116 0.2307408 0.0000000 0.0000000 0
## [41,] 0.2139134 0.0000000 0.2567582 0.3032880 0.0000000 0.2244883 0
## [42,] 0.3213116 0.2567582 0.0000000 0.0000000 0.0000000 0.2875171 0
## [43,] 0.2307408 0.3032880 0.0000000 0.0000000 0.0000000 0.0000000 0
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [45,] 0.0000000 0.2244883 0.2875171 0.0000000 0.0000000 0.0000000 0
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [48,] 0.0000000 0.0000000 0.3439677 0.2552322 0.0000000 0.3444834 0
## [49,] 0.2490208 0.2561478 0.0000000 0.0000000 0.0000000 0.0000000 0
## [50,] 0.0000000 0.2914638 0.2833630 0.0000000 0.0000000 0.0000000 0
## [51,] 0.3290724 0.2337427 0.0000000 0.2101741 0.0000000 0.0000000 0
## [52,] 0.3034479 0.2697638 0.2443343 0.0000000 0.0000000 0.0000000 0
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [54,] 0.3374434 0.2317090 0.0000000 0.0000000 0.0000000 0.0000000 0
## [55,] 0.3331020 0.2869683 0.0000000 0.2633568 0.0000000 0.0000000 0
## [56,] 0.2649280 0.2787111 0.0000000 0.0000000 0.0000000 0.0000000 0
## [57,] 0.1941803 0.2584091 0.0000000 0.2841375 0.0000000 0.0000000 0
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2336607 0
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2164504 0
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [65,] 0.2697501 0.2148539 0.0000000 0.0000000 0.0000000 0.0000000 0
## [66,] 0.2467774 0.2129060 0.0000000 0.0000000 0.0000000 0.0000000 0
## [67,] 0.3067654 0.0000000 0.0000000 0.2340907 0.0000000 0.0000000 0
## [68,] 0.2792904 0.2659067 0.0000000 0.0000000 0.0000000 0.0000000 0
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [71,] 0.3173208 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
##      [,47]      [,48]      [,49]      [,50]      [,51]      [,52]      [,53]
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2625819 0.0000000
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000 0.2480062 0.2447286 0.0000000 0.0000000 0.2937762 0.0000000
## [12,] 0.0000000 0.2605072 0.1789917 0.2905337 0.0000000 0.3258066 0.0000000
## [13,] 0.0000000 0.5572857 0.2628416 0.0000000 0.2390966 0.2367796 0.0000000
## [14,] 0.0000000 0.7041041 0.0000000 0.7209191 0.0000000 0.0000000 0.0000000
## [15,] 0.6940665 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [16,] 0.0000000 0.6824266 0.0000000 0.0000000 0.0000000 0.0000000 0.4369998
## [17,] 0.0000000 0.5579557 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

```

```

## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2476967
## [20,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [21,] 0.0000000 0.0000000 0.2748066 0.0000000 0.0000000 0.2988788 0.0000000
## [22,] 0.2580577 0.0000000 0.2140149 0.0000000 0.3315094 0.0000000 0.0000000
## [23,] 0.2517231 0.0000000 0.0000000 0.0000000 0.0000000 0.2598157 0.0000000
## [24,] 0.0000000 0.2056520 0.0000000 0.0000000 0.0000000 0.2672734 0.2984040
## [25,] 0.0000000 0.0000000 0.0000000 0.2516266 0.0000000 0.0000000 0.0000000
## [26,] 0.0000000 0.0000000 0.2161174 0.0000000 0.0000000 0.2092098 0.0000000
## [27,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [28,] 0.0000000 0.0000000 0.0000000 0.2639325 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.2703374 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.3060333 0.0000000 0.0000000 0.1982031 0.2282017 0.0000000 0.0000000
## [31,] 0.0000000 0.0000000 0.0000000 0.2841341 0.2705554 0.3095276 0.0000000
## [32,] 0.0000000 0.0000000 0.0000000 0.3004626 0.3562529 0.0000000 0.0000000
## [33,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2937056 0.0000000 0.0000000
## [34,] 0.0000000 0.2369890 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [35,] 0.0000000 0.0000000 0.0000000 0.2686768 0.2592147 0.0000000 0.0000000
## [36,] 0.2648752 0.0000000 0.0000000 0.0000000 0.0000000 0.2974489 0.0000000
## [37,] 0.2478924 0.0000000 0.0000000 0.2125658 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.2283560 0.0000000 0.0000000 0.2663515 0.2714352 0.0000000
## [39,] 0.0000000 0.2558441 0.0000000 0.0000000 0.2655500 0.2917112 0.0000000
## [40,] 0.0000000 0.0000000 0.2490208 0.0000000 0.3290724 0.3034479 0.0000000
## [41,] 0.0000000 0.0000000 0.2561478 0.2914638 0.2337427 0.2697638 0.0000000
## [42,] 0.0000000 0.3439677 0.0000000 0.2833630 0.0000000 0.2443343 0.0000000
## [43,] 0.0000000 0.2552322 0.0000000 0.0000000 0.2101741 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.3444834 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2720676 0.2289816 0.0000000
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3252521 0.0000000 0.0000000
## [51,] 0.0000000 0.0000000 0.2720676 0.3252521 0.0000000 0.2196488 0.0000000
## [52,] 0.0000000 0.0000000 0.2289816 0.0000000 0.2196488 0.0000000 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3046853 0.2794271 0.0000000
## [55,] 0.0000000 0.0000000 0.2021506 0.0000000 0.0000000 0.2472946 0.0000000
## [56,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2930107 0.2854636 0.0000000
## [57,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2621304 0.2434166 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2257810 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2880539 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.2800601 0.0000000 0.0000000 0.0000000
## [64,] 0.0000000 0.2728919 0.0000000 0.0000000 0.0000000 0.0000000 0.2903816
## [65,] 0.0000000 0.0000000 0.2661345 0.0000000 0.0000000 0.2460409 0.0000000
## [66,] 0.0000000 0.0000000 0.2805391 0.2711578 0.0000000 0.2592702 0.0000000
## [67,] 0.0000000 0.0000000 0.2519816 0.0000000 0.0000000 0.2397363 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.2624926 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0.2628359 0.0000000 0.0000000 0.2606950 0.0000000

```

##		[,54]	[,55]	[,56]	[,57]	[,58]	[,59]	[,60]	[,61]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[4,]	0.2675825	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2449739	0
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[11,]	0.2413026	0.0000000	0.2337991	0.2416599	0.3024895	0	0.2955896	0
##	[12,]	0.2374052	0.0000000	0.2714386	0.2713264	0.2720270	0	0.2138127	0
##	[13,]	0.2122891	0.2956882	0.1715043	0.2452914	0.6934484	0	0.0000000	0
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[15,]	0.2859418	0.0000000	0.3360103	0.0000000	0.0000000	0	0.0000000	0
##	[16,]	0.0000000	0.6669562	0.0000000	0.0000000	0.0000000	0	0.6417608	0
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.4648888	0
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[19,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.3095159	0
##	[20,]	0.0000000	0.1794039	0.2625347	0.0000000	0.0000000	0	0.0000000	0
##	[21,]	0.0000000	0.2838981	0.2905029	0.2798893	0.0000000	0	0.0000000	0
##	[22,]	0.2700631	0.2498672	0.2504509	0.0000000	0.0000000	0	0.0000000	0
##	[23,]	0.0000000	0.3005263	0.2798504	0.0000000	0.0000000	0	0.0000000	0
##	[24,]	0.0000000	0.2988765	0.3068021	0.2945997	0.0000000	0	0.0000000	0
##	[25,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[26,]	0.1981475	0.2584166	0.2191266	0.0000000	0.0000000	0	0.3145858	0
##	[27,]	0.0000000	0.2182419	0.2754058	0.2819786	0.0000000	0	0.0000000	0
##	[28,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2614721	0	0.0000000	0
##	[29,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[30,]	0.0000000	0.0000000	0.0000000	0.0000000	0.1993100	0	0.0000000	0
##	[31,]	0.0000000	0.2667867	0.0000000	0.0000000	0.3682131	0	0.0000000	0
##	[32,]	0.0000000	0.0000000	0.0000000	0.0000000	0.1902395	0	0.0000000	0
##	[33,]	0.2287815	0.0000000	0.0000000	0.0000000	0.2185357	0	0.0000000	0
##	[34,]	0.0000000	0.0000000	0.2229799	0.0000000	0.0000000	0	0.2629707	0
##	[35,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.3102399	0
##	[36,]	0.2337495	0.2767772	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[37,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[38,]	0.0000000	0.2348057	0.2720769	0.2764705	0.0000000	0	0.0000000	0
##	[39,]	0.0000000	0.2315052	0.2715961	0.2815413	0.0000000	0	0.0000000	0
##	[40,]	0.3374434	0.3331020	0.2649280	0.1941803	0.0000000	0	0.0000000	0
##	[41,]	0.2317090	0.2869683	0.2787111	0.2584091	0.0000000	0	0.0000000	0
##	[42,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[43,]	0.0000000	0.2633568	0.0000000	0.2841375	0.0000000	0	0.0000000	0
##	[44,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[45,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2336607	0
##	[46,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[47,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[48,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[49,]	0.0000000	0.2021506	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[50,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0
##	[51,]	0.3046853	0.0000000	0.2930107	0.2621304	0.2257810	0	0.2880539	0
##	[52,]	0.2794271	0.2472946	0.2854636	0.2434166	0.0000000	0	0.0000000	0
##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0



```

## [54,] 0.0000000 0.3108371 0.2647132 0.0000000 0.3609147      0 0.0000000      0
## [55,] 0.3108371 0.0000000 0.2779350 0.2409556 0.0000000      0 0.0000000      0
## [56,] 0.2647132 0.2779350 0.0000000 0.2422695 0.0000000      0 0.0000000      0
## [57,] 0.0000000 0.2409556 0.2422695 0.0000000 0.0000000      0 0.0000000      0
## [58,] 0.3609147 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000      0
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000      0
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000      0
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000      0
## [62,] 0.0000000 0.0000000 0.2552928 0.3231142 0.0000000      0 0.2882900      0
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000      0
## [64,] 0.0000000 0.0000000 0.2824758 0.0000000 0.0000000      0 0.0000000      0
## [65,] 0.2394257 0.3180822 0.2478634 0.3584963 0.2720459      0 0.0000000      0
## [66,] 0.2325941 0.2701761 0.2669252 0.1954295 0.0000000      0 0.0000000      0
## [67,] 0.2295037 0.2858275 0.2596205 0.3320886 0.0000000      0 0.0000000      0
## [68,] 0.2570802 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000      0
## [69,] 0.2567962 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000      0
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000      0
## [71,] 0.0000000 0.2977769 0.3237152 0.3148278 0.0000000      0 0.0000000      0
##      [,62]      [,63]      [,64]      [,65]      [,66]      [,67]      [,68]
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.2420152 0.0000000 0.2432342 0.2634391 0.0000000 0.0000000 0.0000000
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.2946395 0.0000000 0.0000000 0.2275027 0.2634008 0.0000000 0.0000000
## [12,] 0.3042537 0.0000000 0.2743466 0.0000000 0.2224053 0.0000000 0.3046004
## [13,] 0.0000000 0.0000000 0.5885221 0.2116166 0.2486701 0.2851329 0.3290148
## [14,] 0.0000000 0.6086728 0.0000000 0.0000000 0.0000000 0.0000000 0.2821785
## [15,] 0.5752960 0.6769494 0.0000000 0.2909840 0.0000000 0.0000000 0.0000000
## [16,] 0.0000000 0.0000000 0.6522721 0.0000000 0.2972393 0.2203618 0.2842753
## [17,] 0.0000000 0.0000000 0.2130645 0.0000000 0.3154918 0.2727996 0.2343836
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.0000000 0.2680991 0.0000000 0.0000000 0.0000000 0.0000000
## [20,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2339201
## [21,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3152286 0.0000000 0.2956684
## [22,] 0.0000000 0.0000000 0.2403298 0.2753628 0.2454134 0.0000000 0.2409778
## [23,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2290063 0.0000000 0.0000000
## [24,] 0.0000000 0.0000000 0.2760566 0.2506533 0.2778057 0.3148703 0.0000000
## [25,] 0.0000000 0.2728520 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [26,] 0.2513032 0.0000000 0.0000000 0.2998445 0.2927873 0.0000000 0.2525110
## [27,] 0.0000000 0.0000000 0.0000000 0.3096439 0.0000000 0.0000000 0.2506537
## [28,] 0.0000000 0.2944791 0.0000000 0.0000000 0.3067895 0.0000000 0.0000000
## [29,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.0000000 0.2887585 0.0000000 0.3092994 0.0000000 0.0000000 0.0000000
## [31,] 0.0000000 0.2175160 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [32,] 0.0000000 0.2878283 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [33,] 0.0000000 0.2264248 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [34,] 0.0000000 0.0000000 0.3057745 0.0000000 0.0000000 0.0000000 0.0000000
## [35,] 0.0000000 0.2936434 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

```

```

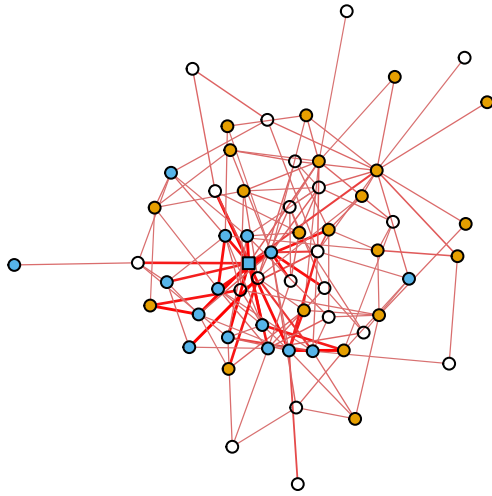
## [36,] 0.0000000 0.0000000 0.0000000 0.3338335 0.0000000 0.0000000 0.0000000
## [37,] 0.3109422 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.0000000 0.0000000 0.2908068 0.0000000 0.2640309 0.0000000
## [39,] 0.0000000 0.0000000 0.0000000 0.3024226 0.2773821 0.3410737 0.0000000
## [40,] 0.0000000 0.0000000 0.0000000 0.2697501 0.2467774 0.3067654 0.2792904
## [41,] 0.0000000 0.0000000 0.0000000 0.2148539 0.2129060 0.0000000 0.2659067
## [42,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [43,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2340907 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.2164504 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.2728919 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0.0000000 0.2661345 0.2805391 0.2519816 0.0000000
## [50,] 0.0000000 0.2800601 0.0000000 0.0000000 0.2711578 0.0000000 0.0000000
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [52,] 0.0000000 0.0000000 0.0000000 0.2460409 0.2592702 0.2397363 0.0000000
## [53,] 0.0000000 0.0000000 0.2903816 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.2394257 0.2325941 0.2295037 0.2570802
## [55,] 0.0000000 0.0000000 0.0000000 0.3180822 0.2701761 0.2858275 0.0000000
## [56,] 0.2552928 0.0000000 0.2824758 0.2478634 0.2669252 0.2596205 0.0000000
## [57,] 0.3231142 0.0000000 0.0000000 0.3584963 0.1954295 0.3320886 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.2720459 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.2882900 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.2194353 0.2486446 0.2717675 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.2194353 0.0000000 0.0000000 0.2542813 0.2511511 0.0000000 0.0000000
## [65,] 0.2486446 0.0000000 0.2542813 0.0000000 0.2628694 0.0000000 0.2187570
## [66,] 0.2717675 0.0000000 0.2511511 0.2628694 0.0000000 0.2282953 0.2820147
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2282953 0.0000000 0.2963966
## [68,] 0.0000000 0.0000000 0.0000000 0.2187570 0.2820147 0.2963966 0.0000000
## [69,] 0.2868381 0.0000000 0.2483346 0.2820779 0.2369319 0.3133510 0.3048541
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.2841583 0.6645808 0.3489419 0.2682791
##      [,69] [,70] [,71]
## [1,] 0.0000000 0 0.0000000
## [2,] 0.0000000 0 0.0000000
## [3,] 0.0000000 0 0.0000000
## [4,] 0.0000000 0 0.0000000
## [5,] 0.0000000 0 0.0000000
## [6,] 0.0000000 0 0.0000000
## [7,] 0.0000000 0 0.0000000
## [8,] 0.0000000 0 0.0000000
## [9,] 0.0000000 0 0.0000000
## [10,] 0.0000000 0 0.0000000
## [11,] 0.3381156 0 0.3734342
## [12,] 0.0000000 0 0.0000000
## [13,] 0.2765625 0 0.3054912
## [14,] 0.6515889 0 0.7124979
## [15,] 0.0000000 0 0.7271519
## [16,] 0.0000000 0 0.7599955
## [17,] 0.3649412 0 0.4931318

```

## [18,]	0.0000000	0 0.0000000
## [19,]	0.0000000	0 0.0000000
## [20,]	0.0000000	0 0.0000000
## [21,]	0.0000000	0 0.0000000
## [22,]	0.0000000	0 0.2756035
## [23,]	0.0000000	0 0.0000000
## [24,]	0.0000000	0 0.0000000
## [25,]	0.0000000	0 0.0000000
## [26,]	0.2968582	0 0.0000000
## [27,]	0.0000000	0 0.0000000
## [28,]	0.0000000	0 0.0000000
## [29,]	0.0000000	0 0.0000000
## [30,]	0.0000000	0 0.0000000
## [31,]	0.0000000	0 0.0000000
## [32,]	0.0000000	0 0.0000000
## [33,]	0.0000000	0 0.0000000
## [34,]	0.0000000	0 0.0000000
## [35,]	0.0000000	0 0.0000000
## [36,]	0.0000000	0 0.0000000
## [37,]	0.0000000	0 0.0000000
## [38,]	0.0000000	0 0.0000000
## [39,]	0.2701792	0 0.2723872
## [40,]	0.0000000	0 0.3173208
## [41,]	0.0000000	0 0.0000000
## [42,]	0.0000000	0 0.0000000
## [43,]	0.0000000	0 0.0000000
## [44,]	0.0000000	0 0.0000000
## [45,]	0.0000000	0 0.0000000
## [46,]	0.0000000	0 0.0000000
## [47,]	0.0000000	0 0.0000000
## [48,]	0.0000000	0 0.0000000
## [49,]	0.2624926	0 0.2628359
## [50,]	0.0000000	0 0.0000000
## [51,]	0.0000000	0 0.0000000
## [52,]	0.0000000	0 0.2606950
## [53,]	0.0000000	0 0.0000000
## [54,]	0.2567962	0 0.0000000
## [55,]	0.0000000	0 0.2977769
## [56,]	0.0000000	0 0.3237152
## [57,]	0.0000000	0 0.3148278
## [58,]	0.0000000	0 0.0000000
## [59,]	0.0000000	0 0.0000000
## [60,]	0.0000000	0 0.0000000
## [61,]	0.0000000	0 0.0000000
## [62,]	0.2868381	0 0.0000000
## [63,]	0.0000000	0 0.0000000
## [64,]	0.2483346	0 0.0000000
## [65,]	0.2820779	0 0.2841583
## [66,]	0.2369319	0 0.6645808
## [67,]	0.3133510	0 0.3489419
## [68,]	0.3048541	0 0.2682791
## [69,]	0.0000000	0 0.4137940
## [70,]	0.0000000	0 0.0000000
## [71,]	0.4137940	0 0.0000000

# More advanced examples

```
vis.motif(motif.graphs,4L,cl,threshold=0.3, weight.scaling.factor=1.5)
```



##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]
##	[1,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[2,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[3,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[4,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[5,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[6,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[7,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[8,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[9,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[10,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[11,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[12,]	0.0000000	0	0.0000000	0.2654891	0.0000000	0.0000000	0	0	0
##	[13,]	0.0000000	0	0.0000000	0.2800276	0.0000000	0.0000000	0	0	0
##	[14,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[15,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[16,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[17,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[18,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[19,]	0.2472132	0	0.2437456	0.2476121	0.0000000	0.3104147	0	0	0
##	[20,]	0.3150946	0	0.0000000	0.2482525	0.7359769	0.0000000	0	0	0
##	[21,]	0.3540730	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0
##	[22,]	0.2659220	0	0.0000000	0.3294063	0.0000000	0.0000000	0	0	0
##	[23,]	0.2585150	0	0.2191152	0.2687438	0.7463772	0.0000000	0	0	0
##	[24,]	0.2129555	0	0.0000000	0.0000000	0.0000000	0.3078555	0	0	0
##	[25,]	0.0000000	0	0.2244572	0.0000000	0.0000000	0.0000000	0	0	0
##	[26,]	0.2541130	0	0.0000000	0.2829916	0.5032921	0.2963679	0	0	0
##	[27,]	0.2451901	0	0.0000000	0.2034325	0.6727174	0.2741146	0	0	0
##	[28,]	0.0000000	0	0.2896089	0.3516558	0.6383601	0.3430004	0	0	0
##	[29,]	0.2508308	0	0.0000000	0.2453545	0.0000000	0.0000000	0	0	0
##	[30,]	0.2795778	0	0.2091463	0.0000000	0.0000000	0.2426911	0	0	0
##	[31,]	0.0000000	0	0.0000000	0.2235195	0.6897433	0.2808578	0	0	0
##	[32,]	0.0000000	0	0.0000000	0.0000000	0.7172410	0.2524510	0	0	0
##	[33,]	0.0000000	0	0.0000000	0.0000000	0.7346078	0.0000000	0	0	0
##	[34,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0

##	[35,]	0.0000000	0	0.0000000	0.1911222	0.6251203	0.2861750	0	0	0	
##	[36,]	0.2350745	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[37,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[38,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[39,]	0.3088542	0	0.0000000	0.0000000	0.3817118	0.0000000	0	0	0	
##	[40,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[41,]	0.2871624	0	0.2520882	0.2603074	0.0000000	0.0000000	0	0	0	
##	[42,]	0.0000000	0	0.0000000	0.2758823	0.2738976	0.0000000	0	0	0	
##	[43,]	0.2390815	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[44,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[45,]	0.0000000	0	0.0000000	0.3197005	0.0000000	0.0000000	0	0	0	
##	[46,]	0.0000000	0	0.0000000	0.2393312	0.0000000	0.0000000	0	0	0	
##	[47,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[48,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[49,]	0.0000000	0	0.2416416	0.0000000	0.0000000	0.0000000	0	0	0	
##	[50,]	0.0000000	0	0.0000000	0.0000000	0.7415067	0.2970079	0	0	0	
##	[51,]	0.0000000	0	0.0000000	0.0000000	0.6763693	0.6914569	0	0	0	
##	[52,]	0.3142081	0	0.2747383	0.2718694	0.2874934	0.0000000	0	0	0	
##	[53,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[54,]	0.2221606	0	0.2786567	0.6883796	0.7424695	0.6856326	0	0	0	
##	[55,]	0.0000000	0	0.2619687	0.0000000	0.0000000	0.0000000	0	0	0	
##	[56,]	0.2400367	0	0.0000000	0.0000000	0.2393941	0.0000000	0	0	0	
##	[57,]	0.2981738	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[58,]	0.6436749	0	0.4501155	0.0000000	0.6897891	0.2656118	0	0	0	
##	[59,]	0.0000000	0	0.0000000	0.0000000	0.7039160	0.3210441	0	0	0	
##	[60,]	0.0000000	0	0.0000000	0.2728522	0.0000000	0.0000000	0	0	0	
##	[61,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[62,]	0.0000000	0	0.0000000	0.2895387	0.0000000	0.0000000	0	0	0	
##	[63,]	0.0000000	0	0.0000000	0.0000000	0.6407740	0.0000000	0	0	0	
##	[64,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[65,]	0.2792155	0	0.2567263	0.2466257	0.2466992	0.2892583	0	0	0	
##	[66,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[67,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[68,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[69,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##	[70,]	0.0000000	0	0.0000000	0.2806508	0.0000000	0.0000000	0	0	0	
##	[71,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0	0	0	
##		[,10]		[,11]	[,12]	[,13]	[,14]	[,15]	[,16]	[,17]	[,18]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[4,]	0.0000000	0.0000000	0.2654891	0.2800276	0	0.0000000	0	0	0	0
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[11,]	0.0000000	0.0000000	0.2427254	0.0000000	0	0.0000000	0	0	0	0
##	[12,]	0.0000000	0.2427254	0.0000000	0.2294950	0	0.0000000	0	0	0	0
##	[13,]	0.0000000	0.0000000	0.2294950	0.0000000	0	0.0000000	0	0	0	0
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0	0	0	0

## [17,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000	0	0	0
## [18,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000	0	0	0
## [19,]	0.0000000	0.0000000	0.3291202	0.3348577	0 0.2550538	0	0	0
## [20,]	0.0000000	0.0000000	0.0000000	0.2608597	0 0.2712567	0	0	0
## [21,]	0.0000000	0.2486069	0.0000000	0.2427072	0 0.0000000	0	0	0
## [22,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.3329323	0	0	0
## [23,]	0.0000000	0.2507980	0.0000000	0.2835228	0 0.0000000	0	0	0
## [24,]	0.3013327	0.2396387	0.2934704	0.2265082	0 0.0000000	0	0	0
## [25,]	0.0000000	0.0000000	0.2569922	0.0000000	0 0.0000000	0	0	0
## [26,]	0.0000000	0.2415972	0.3119921	0.2212798	0 0.2522821	0	0	0
## [27,]	0.2581106	0.1876740	0.4192910	0.2343651	0 0.2566612	0	0	0
## [28,]	0.0000000	0.0000000	0.2440946	0.2601191	0 0.3350240	0	0	0
## [29,]	0.0000000	0.0000000	0.2841070	0.0000000	0 0.2689913	0	0	0
## [30,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000	0	0	0
## [31,]	0.6680230	0.0000000	0.4500233	0.2716670	0 0.2175571	0	0	0
## [32,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.2454717	0	0	0
## [33,]	0.7195876	0.0000000	0.0000000	0.2498811	0 0.0000000	0	0	0
## [34,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000	0	0	0
## [35,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.2961187	0	0	0
## [36,]	0.0000000	0.0000000	0.3260445	0.2991152	0 0.2963941	0	0	0
## [37,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.2444954	0	0	0
## [38,]	0.0000000	0.0000000	0.0000000	0.2710282	0 0.0000000	0	0	0
## [39,]	0.0000000	0.2203927	0.3799059	0.2341818	0 0.0000000	0	0	0
## [40,]	0.0000000	0.2929127	0.0000000	0.0000000	0 0.0000000	0	0	0
## [41,]	0.0000000	0.2603163	0.2434669	0.2494492	0 0.3487125	0	0	0
## [42,]	0.0000000	0.2554799	0.2149661	0.2673088	0 0.0000000	0	0	0
## [43,]	0.0000000	0.2580330	0.0000000	0.2588207	0 0.0000000	0	0	0
## [44,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000	0	0	0
## [45,]	0.0000000	0.0000000	0.2916128	0.0000000	0 0.0000000	0	0	0
## [46,]	0.0000000	0.2658901	0.0000000	0.0000000	0 0.0000000	0	0	0
## [47,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.1874236	0	0	0
## [48,]	0.2284828	0.2408676	0.2582463	0.2290323	0 0.0000000	0	0	0
## [49,]	0.0000000	0.2602752	0.2709569	0.2291744	0 0.0000000	0	0	0
## [50,]	0.0000000	0.0000000	0.2021692	0.0000000	0 0.0000000	0	0	0
## [51,]	0.0000000	0.0000000	0.0000000	0.2353665	0 0.0000000	0	0	0
## [52,]	0.0000000	0.2458784	0.2263462	0.3166403	0 0.0000000	0	0	0
## [53,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000	0	0	0
## [54,]	0.0000000	0.2341973	0.5134992	0.2655960	0 0.6876586	0	0	0
## [55,]	0.2735379	0.0000000	0.0000000	0.2566324	0 0.0000000	0	0	0
## [56,]	0.0000000	0.2589462	0.2422047	0.2828107	0 0.2692414	0	0	0
## [57,]	0.0000000	0.2193135	0.2859959	0.2937213	0 0.0000000	0	0	0
## [58,]	0.0000000	0.7386801	0.6117761	0.3235158	0 0.0000000	0	0	0
## [59,]	0.0000000	0.6469105	0.0000000	0.0000000	0 0.0000000	0	0	0
## [60,]	0.2779079	0.3038988	0.3029760	0.0000000	0 0.0000000	0	0	0
## [61,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000	0	0	0
## [62,]	0.0000000	0.2377330	0.2189690	0.0000000	0 0.2831238	0	0	0
## [63,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.2029570	0	0	0
## [64,]	0.0000000	0.0000000	0.0000000	0.0000000	0 0.0000000	0	0	0
## [65,]	0.0000000	0.2029318	0.0000000	0.2772286	0 0.2275297	0	0	0
## [66,]	0.0000000	0.1904847	0.2617210	0.2679250	0 0.0000000	0	0	0
## [67,]	0.0000000	0.0000000	0.0000000	0.2688034	0 0.0000000	0	0	0
## [68,]	0.0000000	0.0000000	0.2518467	0.2902348	0 0.0000000	0	0	0
## [69,]	0.0000000	0.3316704	0.0000000	0.3024648	0 0.0000000	0	0	0
## [70,]	0.0000000	0.2720664	0.0000000	0.2463701	0 0.2265790	0	0	0

##	[71,]	0.0000000	0.3013316	0.0000000	0.2732890	0	0.2648297	0	0	0
##		[,19]	[,20]	[,21]	[,22]	[,23]	[,24]	[,25]		
##	[1,]	0.2472132	0.3150946	0.3540730	0.2659220	0.2585150	0.2129555	0.0000000		
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[3,]	0.2437456	0.0000000	0.0000000	0.0000000	0.2191152	0.0000000	0.2244572		
##	[4,]	0.2476121	0.2482525	0.0000000	0.3294063	0.2687438	0.0000000	0.0000000		
##	[5,]	0.0000000	0.7359769	0.0000000	0.0000000	0.7463772	0.0000000	0.0000000		
##	[6,]	0.3104147	0.0000000	0.0000000	0.0000000	0.0000000	0.3078555	0.0000000		
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.3013327	0.0000000		
##	[11,]	0.0000000	0.0000000	0.2486069	0.0000000	0.2507980	0.2396387	0.0000000		
##	[12,]	0.3291202	0.0000000	0.0000000	0.0000000	0.0000000	0.2934704	0.2569922		
##	[13,]	0.3348577	0.2608597	0.2427072	0.0000000	0.2835228	0.2265082	0.0000000		
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[15,]	0.2550538	0.2712567	0.0000000	0.3329323	0.0000000	0.0000000	0.0000000		
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[19,]	0.0000000	0.5442684	0.2981926	0.2616602	0.0000000	0.2699570	0.0000000		
##	[20,]	0.5442684	0.0000000	0.6604727	0.3535861	0.5002689	0.2618940	0.7442616		
##	[21,]	0.2981926	0.6604727	0.0000000	0.0000000	0.0000000	0.2871979	0.0000000		
##	[22,]	0.2616602	0.3535861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[23,]	0.0000000	0.5002689	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[24,]	0.2699570	0.2618940	0.2871979	0.0000000	0.0000000	0.0000000	0.0000000		
##	[25,]	0.0000000	0.7442616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[26,]	0.2205241	0.2593382	0.2552396	0.2709207	0.0000000	0.2308070	0.0000000		
##	[27,]	0.0000000	0.2527992	0.2637231	0.0000000	0.2465896	0.2330216	0.0000000		
##	[28,]	0.2289187	0.0000000	0.0000000	0.2863282	0.0000000	0.2946614	0.3048973		
##	[29,]	0.2505360	0.2685855	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[30,]	0.2573428	0.2631897	0.0000000	0.2873592	0.0000000	0.3348913	0.2068216		
##	[31,]	0.0000000	0.2794381	0.2938264	0.2411805	0.0000000	0.2527518	0.0000000		
##	[32,]	0.4979371	0.0000000	0.0000000	0.2381201	0.0000000	0.0000000	0.0000000		
##	[33,]	0.0000000	0.0000000	0.3056481	0.2685978	0.2450025	0.2541336	0.2451663		
##	[34,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[35,]	0.2362460	0.2372809	0.0000000	0.0000000	0.0000000	0.0000000	0.3326412		
##	[36,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2471388	0.0000000		
##	[37,]	0.3015171	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[38,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2325382	0.0000000		
##	[39,]	0.0000000	0.0000000	0.0000000	0.3163043	0.0000000	0.0000000	0.0000000		
##	[40,]	0.0000000	0.2781679	0.2884363	0.0000000	0.0000000	0.2243300	0.0000000		
##	[41,]	0.0000000	0.0000000	0.2576033	0.3344075	0.3145962	0.2785672	0.0000000		
##	[42,]	0.3109890	0.2952948	0.0000000	0.0000000	0.0000000	0.2327136	0.0000000		
##	[43,]	0.2851675	0.3092096	0.2528085	0.0000000	0.0000000	0.2382606	0.0000000		
##	[44,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[45,]	0.2172069	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2402230		
##	[46,]	0.2756101	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000		
##	[47,]	0.0000000	0.0000000	0.0000000	0.2332628	0.3425107	0.0000000	0.0000000		
##	[48,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2365226	0.0000000		
##	[49,]	0.0000000	0.0000000	0.2798366	0.2510765	0.0000000	0.0000000	0.0000000		
##	[50,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2094107		
##	[51,]	0.0000000	0.0000000	0.0000000	0.2397752	0.0000000	0.0000000	0.0000000		
##	[52,]	0.0000000	0.0000000	0.2600191	0.0000000	0.2792009	0.2888577	0.0000000		

```

## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.2609497 0.0000000 0.0000000 0.0000000
## [55,] 0.0000000 0.3354488 0.2506909 0.3301704 0.2732376 0.3037097 0.0000000
## [56,] 0.0000000 0.2926500 0.2721187 0.2711562 0.2559335 0.2712881 0.0000000
## [57,] 0.0000000 0.0000000 0.2630714 0.0000000 0.0000000 0.2485617 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.2594633 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2463621
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.0000000 0.0000000 0.0000000 0.2826931 0.0000000 0.2393501 0.0000000
## [66,] 0.0000000 0.0000000 0.2784353 0.3041651 0.2434120 0.2518492 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3090289 0.0000000
## [68,] 0.0000000 0.3565865 0.2520105 0.2542772 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.2293890 0.0000000 0.2229287 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.1959508 0.0000000 0.0000000 0.0000000
##      [,26]      [,27]      [,28]      [,29]      [,30]      [,31]      [,32]
## [1,] 0.2541130 0.2451901 0.0000000 0.2508308 0.2795778 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.2896089 0.0000000 0.2091463 0.0000000 0.0000000
## [4,] 0.2829916 0.2034325 0.3516558 0.2453545 0.0000000 0.2235195 0.0000000
## [5,] 0.5032921 0.6727174 0.6383601 0.0000000 0.0000000 0.6897433 0.7172410
## [6,] 0.2963679 0.2741146 0.3430004 0.0000000 0.2426911 0.2808578 0.2524510
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.2581106 0.0000000 0.0000000 0.0000000 0.6680230 0.0000000
## [11,] 0.2415972 0.1876740 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [12,] 0.3119921 0.4192910 0.2440946 0.2841070 0.0000000 0.4500233 0.0000000
## [13,] 0.2212798 0.2343651 0.2601191 0.0000000 0.0000000 0.2716670 0.0000000
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.2522821 0.2566612 0.3350240 0.2689913 0.0000000 0.2175571 0.2454717
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.2205241 0.0000000 0.2289187 0.2505360 0.2573428 0.0000000 0.4979371
## [20,] 0.2593382 0.2527992 0.0000000 0.2685855 0.2631897 0.2794381 0.0000000
## [21,] 0.2552396 0.2637231 0.0000000 0.0000000 0.0000000 0.2938264 0.0000000
## [22,] 0.2709207 0.0000000 0.2863282 0.0000000 0.2873592 0.2411805 0.2381201
## [23,] 0.0000000 0.2465896 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.2308070 0.2330216 0.2946614 0.0000000 0.3348913 0.2527518 0.0000000
## [25,] 0.0000000 0.0000000 0.3048973 0.0000000 0.2068216 0.0000000 0.0000000
## [26,] 0.0000000 0.2854436 0.1858969 0.3020250 0.2806322 0.2468538 0.2274435
## [27,] 0.2854436 0.0000000 0.0000000 0.2234402 0.0000000 0.0000000 0.0000000
## [28,] 0.1858969 0.0000000 0.0000000 0.2808506 0.2876615 0.2615291 0.1890258
## [29,] 0.3020250 0.2234402 0.2808506 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.2806322 0.0000000 0.2876615 0.0000000 0.0000000 0.2351522 0.2437600
## [31,] 0.2468538 0.0000000 0.2615291 0.0000000 0.2351522 0.0000000 0.2756124
## [32,] 0.2274435 0.0000000 0.1890258 0.0000000 0.2437600 0.2756124 0.0000000
## [33,] 0.2825475 0.0000000 0.0000000 0.0000000 0.2522546 0.2706521 0.2306331
## [34,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

```



```

## [35,] 0.2251775 0.0000000 0.2352630 0.0000000 0.2243631 0.2664097 0.1692221
## [36,] 0.3404108 0.0000000 0.0000000 0.2767415 0.3163617 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.3275459 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.2618067 0.0000000 0.0000000 0.0000000 0.2359910 0.0000000 0.0000000
## [40,] 0.2886219 0.2949032 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [41,] 0.2874966 0.2717544 0.0000000 0.2802903 0.0000000 0.2931737 0.0000000
## [42,] 0.2827961 0.3163622 0.3763911 0.2296816 0.2427931 0.0000000 0.0000000
## [43,] 0.3344212 0.3414574 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.3556523 0.2718891 0.0000000 0.0000000 0.0000000
## [46,] 0.0000000 0.0000000 0.2277001 0.0000000 0.2482683 0.2653119 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2697607 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.2939995 0.0000000 0.0000000 0.0000000
## [49,] 0.3267056 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.2391040 0.0000000 0.3100891 0.2884077 0.3360734
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3333410 0.3308181 0.2481622
## [52,] 0.2943243 0.0000000 0.0000000 0.0000000 0.0000000 0.3214287 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.2653421 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [55,] 0.2733519 0.2654290 0.0000000 0.0000000 0.0000000 0.3248323 0.0000000
## [56,] 0.3221520 0.2905988 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [57,] 0.0000000 0.3038263 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [58,] 0.0000000 0.0000000 0.2906859 0.0000000 0.2639823 0.2962846 0.3594970
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2649490 0.3442067 0.3154002
## [60,] 0.3347401 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.3932351 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.2876742 0.0000000 0.3115841 0.2619358 0.3174772
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.3232085 0.2709495 0.0000000 0.0000000 0.2544897 0.0000000 0.0000000
## [66,] 0.3592978 0.0000000 0.2758185 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.3278555 0.3294139 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.2858132 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.3116722 0.2797763 0.0000000 0.0000000 0.3195848
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
##      [,33] [,34]      [,35]      [,36]      [,37]      [,38]      [,39]
## [1,] 0.0000000      0 0.0000000 0.2350745 0.0000000 0.0000000 0.3088542
## [2,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000      0 0.1911222 0.0000000 0.0000000 0.0000000 0.0000000
## [5,] 0.7346078      0 0.6251203 0.0000000 0.0000000 0.0000000 0.3817118
## [6,] 0.0000000      0 0.2861750 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.7195876      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.2203927
## [12,] 0.0000000      0 0.0000000 0.3260445 0.0000000 0.0000000 0.3799059
## [13,] 0.2498811      0 0.0000000 0.2991152 0.0000000 0.2710282 0.2341818
## [14,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.0000000      0 0.2961187 0.2963941 0.2444954 0.0000000 0.0000000
## [16,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

```

## [17,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [18,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [19,]	0.0000000	0	0.2362460	0.0000000	0.3015171	0.0000000	0.0000000
## [20,]	0.0000000	0	0.2372809	0.0000000	0.0000000	0.0000000	0.0000000
## [21,]	0.3056481	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [22,]	0.2685978	0	0.0000000	0.0000000	0.0000000	0.0000000	0.3163043
## [23,]	0.2450025	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [24,]	0.2541336	0	0.0000000	0.2471388	0.0000000	0.2325382	0.0000000
## [25,]	0.2451663	0	0.3326412	0.0000000	0.0000000	0.0000000	0.0000000
## [26,]	0.2825475	0	0.2251775	0.3404108	0.0000000	0.3275459	0.2618067
## [27,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [28,]	0.0000000	0	0.2352630	0.0000000	0.0000000	0.0000000	0.0000000
## [29,]	0.0000000	0	0.0000000	0.2767415	0.0000000	0.0000000	0.0000000
## [30,]	0.2522546	0	0.2243631	0.3163617	0.0000000	0.0000000	0.2359910
## [31,]	0.2706521	0	0.2664097	0.0000000	0.0000000	0.0000000	0.0000000
## [32,]	0.2306331	0	0.1692221	0.0000000	0.0000000	0.0000000	0.0000000
## [33,]	0.0000000	0	0.3085839	0.0000000	0.0000000	0.2592063	0.0000000
## [34,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [35,]	0.3085839	0	0.0000000	0.0000000	0.0000000	0.2638762	0.0000000
## [36,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2434722	0.0000000
## [37,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [38,]	0.2592063	0	0.2638762	0.2434722	0.0000000	0.0000000	0.0000000
## [39,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [40,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2493275	0.2712591
## [41,]	0.2474796	0	0.0000000	0.2227987	0.0000000	0.2964379	0.2432637
## [42,]	0.0000000	0	0.0000000	0.0000000	0.2666671	0.2509964	0.2982201
## [43,]	0.0000000	0	0.0000000	0.2535522	0.0000000	0.0000000	0.0000000
## [44,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [45,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [46,]	0.0000000	0	0.2806211	0.0000000	0.0000000	0.0000000	0.0000000
## [47,]	0.0000000	0	0.0000000	0.3578568	0.2466296	0.0000000	0.0000000
## [48,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2453851	0.3003991
## [49,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [50,]	0.0000000	0	0.2683932	0.0000000	0.2865517	0.0000000	0.0000000
## [51,]	0.2257901	0	0.3027372	0.0000000	0.0000000	0.2446582	0.2634253
## [52,]	0.0000000	0	0.0000000	0.2890253	0.0000000	0.3223989	0.2824468
## [53,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [54,]	0.3742299	0	0.0000000	0.2503477	0.0000000	0.0000000	0.0000000
## [55,]	0.0000000	0	0.0000000	0.2669504	0.0000000	0.2019091	0.3434560
## [56,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2610556	0.3397374
## [57,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2385602	0.2690315
## [58,]	0.3029776	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [59,]	0.2571372	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [60,]	0.0000000	0	0.2828053	0.0000000	0.0000000	0.0000000	0.0000000
## [61,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [62,]	0.0000000	0	0.0000000	0.0000000	0.3125782	0.0000000	0.0000000
## [63,]	0.2177807	0	0.3226949	0.0000000	0.0000000	0.0000000	0.0000000
## [64,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [65,]	0.0000000	0	0.0000000	0.2335846	0.0000000	0.2848439	0.3006064
## [66,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.2577075
## [67,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2084543	0.3131835
## [68,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
## [69,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.2638521
## [70,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

##	[71,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.3518286
##		[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]
##	[1,]	0.0000000	0.2871624	0.0000000	0.2390815	0	0.0000000	0.0000000
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[3,]	0.0000000	0.2520882	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[4,]	0.0000000	0.2603074	0.2758823	0.0000000	0	0.3197005	0.2393312
##	[5,]	0.0000000	0.0000000	0.2738976	0.0000000	0	0.0000000	0.0000000
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[11,]	0.2929127	0.2603163	0.2554799	0.2580330	0	0.0000000	0.2658901
##	[12,]	0.0000000	0.2434669	0.2149661	0.0000000	0	0.2916128	0.0000000
##	[13,]	0.0000000	0.2494492	0.2673088	0.2588207	0	0.0000000	0.0000000
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[15,]	0.0000000	0.3487125	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[19,]	0.0000000	0.0000000	0.3109890	0.2851675	0	0.2172069	0.2756101
##	[20,]	0.2781679	0.0000000	0.2952948	0.3092096	0	0.0000000	0.0000000
##	[21,]	0.2884363	0.2576033	0.0000000	0.2528085	0	0.0000000	0.0000000
##	[22,]	0.0000000	0.3344075	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[23,]	0.0000000	0.3145962	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[24,]	0.2243300	0.2785672	0.2327136	0.2382606	0	0.0000000	0.0000000
##	[25,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2402230	0.0000000
##	[26,]	0.2886219	0.2874966	0.2827961	0.3344212	0	0.0000000	0.0000000
##	[27,]	0.2949032	0.2717544	0.3163622	0.3414574	0	0.0000000	0.0000000
##	[28,]	0.0000000	0.0000000	0.3763911	0.0000000	0	0.3556523	0.2277001
##	[29,]	0.0000000	0.2802903	0.2296816	0.0000000	0	0.2718891	0.0000000
##	[30,]	0.0000000	0.0000000	0.2427931	0.0000000	0	0.0000000	0.2482683
##	[31,]	0.0000000	0.2931737	0.0000000	0.0000000	0	0.0000000	0.2653119
##	[32,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[33,]	0.0000000	0.2474796	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[34,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[35,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.2806211
##	[36,]	0.0000000	0.2227987	0.0000000	0.2535522	0	0.0000000	0.0000000
##	[37,]	0.0000000	0.0000000	0.2666671	0.0000000	0	0.0000000	0.0000000
##	[38,]	0.2493275	0.2964379	0.2509964	0.0000000	0	0.0000000	0.0000000
##	[39,]	0.2712591	0.2432637	0.2982201	0.0000000	0	0.0000000	0.0000000
##	[40,]	0.0000000	0.2759414	0.2242772	0.2561538	0	0.0000000	0.0000000
##	[41,]	0.2759414	0.0000000	0.2660521	0.2888364	0	0.3261343	0.0000000
##	[42,]	0.2242772	0.2660521	0.0000000	0.0000000	0	0.2416643	0.0000000
##	[43,]	0.2561538	0.2888364	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[44,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[45,]	0.0000000	0.3261343	0.2416643	0.0000000	0	0.0000000	0.2763640
##	[46,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2763640	0.0000000
##	[47,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[48,]	0.0000000	0.0000000	0.2771819	0.2253998	0	0.2763379	0.2742203
##	[49,]	0.2844885	0.2775845	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[50,]	0.0000000	0.3104785	0.3346452	0.0000000	0	0.0000000	0.0000000
##	[51,]	0.3177598	0.2818446	0.0000000	0.2726794	0	0.0000000	0.0000000
##	[52,]	0.2884334	0.2705015	0.3154567	0.0000000	0	0.0000000	0.0000000

##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[54,]	0.3005723	0.2128462	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[55,]	0.2736755	0.2312572	0.0000000	0.2092070	0	0.0000000	0.0000000
##	[56,]	0.3177108	0.2390796	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[57,]	0.2971673	0.2378543	0.0000000	0.2918574	0	0.0000000	0.0000000
##	[58,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[59,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[60,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.3009619	0.2124276
##	[61,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[62,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2142802	0.0000000
##	[63,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.3181974
##	[64,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[65,]	0.2332414	0.2583784	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[66,]	0.2148793	0.3355242	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[67,]	0.2845181	0.0000000	0.0000000	0.2707691	0	0.0000000	0.0000000
##	[68,]	0.2974236	0.2361248	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[69,]	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[70,]	0.2536896	0.0000000	0.0000000	0.0000000	0	0.2502191	0.0000000
##	[71,]	0.2545521	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##		[,47]	[,48]	[,49]	[,50]	[,51]	[,52]	[,53]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.3142081	0
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[3,]	0.0000000	0.0000000	0.2416416	0.0000000	0.0000000	0.2747383	0
##	[4,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2718694	0
##	[5,]	0.0000000	0.0000000	0.0000000	0.7415067	0.6763693	0.2874934	0
##	[6,]	0.0000000	0.0000000	0.0000000	0.2970079	0.6914569	0.0000000	0
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[10,]	0.0000000	0.2284828	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[11,]	0.0000000	0.2408676	0.2602752	0.0000000	0.0000000	0.2458784	0
##	[12,]	0.0000000	0.2582463	0.2709569	0.2021692	0.0000000	0.2263462	0
##	[13,]	0.0000000	0.2290323	0.2291744	0.0000000	0.2353665	0.3166403	0
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[15,]	0.1874236	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[19,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[20,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[21,]	0.0000000	0.0000000	0.2798366	0.0000000	0.0000000	0.2600191	0
##	[22,]	0.2332628	0.0000000	0.2510765	0.0000000	0.2397752	0.0000000	0
##	[23,]	0.3425107	0.0000000	0.0000000	0.0000000	0.0000000	0.2792009	0
##	[24,]	0.0000000	0.2365226	0.0000000	0.0000000	0.0000000	0.2888577	0
##	[25,]	0.0000000	0.0000000	0.0000000	0.2094107	0.0000000	0.0000000	0
##	[26,]	0.0000000	0.0000000	0.3267056	0.0000000	0.0000000	0.2943243	0
##	[27,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[28,]	0.0000000	0.0000000	0.0000000	0.2391040	0.0000000	0.0000000	0
##	[29,]	0.0000000	0.2939995	0.0000000	0.0000000	0.0000000	0.0000000	0
##	[30,]	0.2697607	0.0000000	0.0000000	0.3100891	0.3333410	0.0000000	0
##	[31,]	0.0000000	0.0000000	0.0000000	0.2884077	0.3308181	0.3214287	0
##	[32,]	0.0000000	0.0000000	0.0000000	0.3360734	0.2481622	0.0000000	0
##	[33,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2257901	0.0000000	0
##	[34,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0

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## [35,] 0.0000000 0.0000000 0.0000000 0.2683932 0.3027372 0.0000000 0
## [36,] 0.3578568 0.0000000 0.0000000 0.0000000 0.0000000 0.2890253 0
## [37,] 0.2466296 0.0000000 0.0000000 0.2865517 0.0000000 0.0000000 0
## [38,] 0.0000000 0.2453851 0.0000000 0.0000000 0.2446582 0.3223989 0
## [39,] 0.0000000 0.3003991 0.0000000 0.0000000 0.2634253 0.2824468 0
## [40,] 0.0000000 0.0000000 0.2844885 0.0000000 0.3177598 0.2884334 0
## [41,] 0.0000000 0.0000000 0.2775845 0.3104785 0.2818446 0.2705015 0
## [42,] 0.0000000 0.2771819 0.0000000 0.3346452 0.0000000 0.3154567 0
## [43,] 0.0000000 0.2253998 0.0000000 0.0000000 0.2726794 0.0000000 0
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [45,] 0.0000000 0.2763379 0.0000000 0.0000000 0.0000000 0.0000000 0
## [46,] 0.0000000 0.2742203 0.0000000 0.0000000 0.0000000 0.0000000 0
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [49,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2768076 0.2717245 0
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2724803 0.0000000 0
## [51,] 0.0000000 0.0000000 0.2768076 0.2724803 0.0000000 0.2435754 0
## [52,] 0.0000000 0.0000000 0.2717245 0.0000000 0.2435754 0.0000000 0
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [54,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2584548 0.2079368 0
## [55,] 0.0000000 0.0000000 0.2877172 0.0000000 0.0000000 0.2492775 0
## [56,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2457088 0.2579275 0
## [57,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3016381 0.3111624 0
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2968551 0.0000000 0
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3173089 0.0000000 0
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2877552 0.0000000 0
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [63,] 0.0000000 0.0000000 0.0000000 0.2541963 0.0000000 0.0000000 0
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [65,] 0.0000000 0.0000000 0.2916971 0.0000000 0.0000000 0.2667211 0
## [66,] 0.0000000 0.0000000 0.2526776 0.3110787 0.0000000 0.2331481 0
## [67,] 0.0000000 0.0000000 0.2240314 0.0000000 0.0000000 0.2787177 0
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [69,] 0.0000000 0.0000000 0.2858830 0.0000000 0.0000000 0.0000000 0
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0
## [71,] 0.0000000 0.0000000 0.2271947 0.0000000 0.0000000 0.2666975 0
##      [,54]      [,55]      [,56]      [,57]      [,58]      [,59]      [,60]
## [1,] 0.2221606 0.0000000 0.2400367 0.2981738 0.6436749 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.2786567 0.2619687 0.0000000 0.0000000 0.4501155 0.0000000 0.0000000
## [4,] 0.6883796 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2728522
## [5,] 0.7424695 0.0000000 0.2393941 0.0000000 0.6897891 0.7039160 0.0000000
## [6,] 0.6856326 0.0000000 0.0000000 0.0000000 0.2656118 0.3210441 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.2735379 0.0000000 0.0000000 0.0000000 0.0000000 0.2779079
## [11,] 0.2341973 0.0000000 0.2589462 0.2193135 0.7386801 0.6469105 0.3038988
## [12,] 0.5134992 0.0000000 0.2422047 0.2859959 0.6117761 0.0000000 0.3029760
## [13,] 0.2655960 0.2566324 0.2828107 0.2937213 0.3235158 0.0000000 0.0000000
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.6876586 0.0000000 0.2692414 0.0000000 0.0000000 0.0000000 0.0000000
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

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## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2594633
## [20,] 0.0000000 0.3354488 0.2926500 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [21,] 0.0000000 0.2506909 0.2721187 0.2630714 0.0000000 0.0000000 0.0000000 0.0000000
## [22,] 0.2609497 0.3301704 0.2711562 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [23,] 0.0000000 0.2732376 0.2559335 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.0000000 0.3037097 0.2712881 0.2485617 0.0000000 0.0000000 0.0000000 0.0000000
## [25,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [26,] 0.2653421 0.2733519 0.3221520 0.0000000 0.0000000 0.0000000 0.0000000 0.3347401
## [27,] 0.0000000 0.2654290 0.2905988 0.3038263 0.0000000 0.0000000 0.0000000 0.0000000
## [28,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2906859 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2639823 0.2649490 0.0000000 0.0000000
## [31,] 0.0000000 0.3248323 0.0000000 0.0000000 0.2962846 0.3442067 0.0000000 0.0000000
## [32,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3594970 0.3154002 0.0000000 0.0000000
## [33,] 0.3742299 0.0000000 0.0000000 0.0000000 0.3029776 0.2571372 0.0000000 0.0000000
## [34,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [35,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2828053
## [36,] 0.2503477 0.2669504 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.2019091 0.2610556 0.2385602 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.0000000 0.3434560 0.3397374 0.2690315 0.0000000 0.0000000 0.0000000 0.0000000
## [40,] 0.3005723 0.2736755 0.3177108 0.2971673 0.0000000 0.0000000 0.0000000 0.0000000
## [41,] 0.2128462 0.2312572 0.2390796 0.2378543 0.0000000 0.0000000 0.0000000 0.0000000
## [42,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [43,] 0.0000000 0.2092070 0.0000000 0.2918574 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3009619
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2124276
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.2877172 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.2584548 0.0000000 0.2457088 0.3016381 0.2968551 0.3173089 0.2877552 0.0000000
## [52,] 0.2079368 0.2492775 0.2579275 0.3111624 0.0000000 0.0000000 0.0000000 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.2879048 0.3114053 0.0000000 0.3107309 0.0000000 0.0000000 0.0000000
## [55,] 0.2879048 0.0000000 0.2537096 0.2481707 0.0000000 0.0000000 0.0000000 0.0000000
## [56,] 0.3114053 0.2537096 0.0000000 0.2373581 0.0000000 0.0000000 0.0000000 0.0000000
## [57,] 0.0000000 0.2481707 0.2373581 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [58,] 0.3107309 0.0000000 0.0000000 0.0000000 0.0000000 0.3025706 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3025706 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.2113908 0.3872612 0.0000000 0.0000000 0.0000000 0.2845550
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.2691507 0.2483562 0.2989714 0.2540928 0.2728791 0.0000000 0.0000000 0.0000000
## [66,] 0.3699310 0.3080916 0.2378091 0.2888791 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.3284732 0.2270742 0.2795370 0.2618968 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.2544363 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.3624896 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

```

##	[71,]	0.0000000	0.2662262	0.2789799	0.3146247	0.0000000	0.0000000	0.0000000	
##		[,61]	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]	[,68]
##	[1,]	0	0.0000000	0.0000000	0	0.2792155	0.0000000	0.0000000	0.0000000
##	[2,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0	0.0000000	0.0000000	0	0.2567263	0.0000000	0.0000000	0.0000000
##	[4,]	0	0.2895387	0.0000000	0	0.2466257	0.0000000	0.0000000	0.0000000
##	[5,]	0	0.0000000	0.6407740	0	0.2466992	0.0000000	0.0000000	0.0000000
##	[6,]	0	0.0000000	0.0000000	0	0.2892583	0.0000000	0.0000000	0.0000000
##	[7,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[8,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[9,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[10,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[11,]	0	0.2377330	0.0000000	0	0.2029318	0.1904847	0.0000000	0.0000000
##	[12,]	0	0.2189690	0.0000000	0	0.0000000	0.2617210	0.0000000	0.2518467
##	[13,]	0	0.0000000	0.0000000	0	0.2772286	0.2679250	0.2688034	0.2902348
##	[14,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0	0.2831238	0.2029570	0	0.2275297	0.0000000	0.0000000	0.0000000
##	[16,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[17,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[18,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[19,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[20,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.3565865
##	[21,]	0	0.0000000	0.0000000	0	0.0000000	0.2784353	0.0000000	0.2520105
##	[22,]	0	0.0000000	0.0000000	0	0.2826931	0.3041651	0.0000000	0.2542772
##	[23,]	0	0.0000000	0.0000000	0	0.0000000	0.2434120	0.0000000	0.0000000
##	[24,]	0	0.0000000	0.0000000	0	0.2393501	0.2518492	0.3090289	0.0000000
##	[25,]	0	0.0000000	0.2463621	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[26,]	0	0.3932351	0.0000000	0	0.3232085	0.3592978	0.0000000	0.3278555
##	[27,]	0	0.0000000	0.0000000	0	0.2709495	0.0000000	0.0000000	0.3294139
##	[28,]	0	0.0000000	0.2876742	0	0.0000000	0.2758185	0.0000000	0.0000000
##	[29,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[30,]	0	0.0000000	0.3115841	0	0.2544897	0.0000000	0.0000000	0.0000000
##	[31,]	0	0.0000000	0.2619358	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[32,]	0	0.0000000	0.3174772	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[33,]	0	0.0000000	0.2177807	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[34,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[35,]	0	0.0000000	0.3226949	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[36,]	0	0.0000000	0.0000000	0	0.2335846	0.0000000	0.0000000	0.0000000
##	[37,]	0	0.3125782	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[38,]	0	0.0000000	0.0000000	0	0.2848439	0.0000000	0.2084543	0.0000000
##	[39,]	0	0.0000000	0.0000000	0	0.3006064	0.2577075	0.3131835	0.0000000
##	[40,]	0	0.0000000	0.0000000	0	0.2332414	0.2148793	0.2845181	0.2974236
##	[41,]	0	0.0000000	0.0000000	0	0.2583784	0.3355242	0.0000000	0.2361248
##	[42,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[43,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.2707691	0.0000000
##	[44,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[45,]	0	0.2142802	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[46,]	0	0.0000000	0.3181974	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[47,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[48,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[49,]	0	0.0000000	0.0000000	0	0.2916971	0.2526776	0.2240314	0.0000000
##	[50,]	0	0.0000000	0.2541963	0	0.0000000	0.3110787	0.0000000	0.0000000
##	[51,]	0	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
##	[52,]	0	0.0000000	0.0000000	0	0.2667211	0.2331481	0.2787177	0.0000000

```

## [53,]      0 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [54,]      0 0.0000000 0.0000000      0 0.2691507 0.3699310 0.3284732 0.2544363
## [55,]      0 0.0000000 0.0000000      0 0.2483562 0.3080916 0.2270742 0.0000000
## [56,]      0 0.2113908 0.0000000      0 0.2989714 0.2378091 0.2795370 0.0000000
## [57,]      0 0.3872612 0.0000000      0 0.2540928 0.2888791 0.2618968 0.0000000
## [58,]      0 0.0000000 0.0000000      0 0.2728791 0.0000000 0.0000000 0.0000000
## [59,]      0 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [60,]      0 0.2845550 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [61,]      0 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [62,]      0 0.0000000 0.0000000      0 0.2991098 0.2832568 0.0000000 0.0000000
## [63,]      0 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [64,]      0 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [65,]      0 0.2991098 0.0000000      0 0.0000000 0.2236473 0.0000000 0.2169543
## [66,]      0 0.2832568 0.0000000      0 0.2236473 0.0000000 0.2522535 0.3033935
## [67,]      0 0.0000000 0.0000000      0 0.0000000 0.2522535 0.0000000 0.3369650
## [68,]      0 0.0000000 0.0000000      0 0.2169543 0.3033935 0.3369650 0.0000000
## [69,]      0 0.2946164 0.0000000      0 0.2999294 0.2121722 0.2521385 0.2392153
## [70,]      0 0.0000000 0.0000000      0 0.0000000 0.2271059 0.2856956 0.0000000
## [71,]      0 0.0000000 0.0000000      0 0.2858677 0.3242407 0.2261707 0.2834311
##      [,69]      [,70]      [,71]
## [1,] 0.0000000 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000 0.2806508 0.0000000
## [5,] 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000
## [11,] 0.3316704 0.2720664 0.3013316
## [12,] 0.0000000 0.0000000 0.0000000
## [13,] 0.3024648 0.2463701 0.2732890
## [14,] 0.0000000 0.0000000 0.0000000
## [15,] 0.0000000 0.2265790 0.2648297
## [16,] 0.0000000 0.0000000 0.0000000
## [17,] 0.0000000 0.0000000 0.0000000
## [18,] 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.2293890 0.0000000
## [20,] 0.0000000 0.0000000 0.0000000
## [21,] 0.0000000 0.2229287 0.0000000
## [22,] 0.0000000 0.0000000 0.1959508
## [23,] 0.0000000 0.0000000 0.0000000
## [24,] 0.0000000 0.0000000 0.0000000
## [25,] 0.0000000 0.0000000 0.0000000
## [26,] 0.2858132 0.0000000 0.0000000
## [27,] 0.0000000 0.0000000 0.0000000
## [28,] 0.0000000 0.3116722 0.0000000
## [29,] 0.0000000 0.2797763 0.0000000
## [30,] 0.0000000 0.0000000 0.0000000
## [31,] 0.0000000 0.0000000 0.0000000
## [32,] 0.0000000 0.3195848 0.0000000
## [33,] 0.0000000 0.0000000 0.0000000
## [34,] 0.0000000 0.0000000 0.0000000

```



```

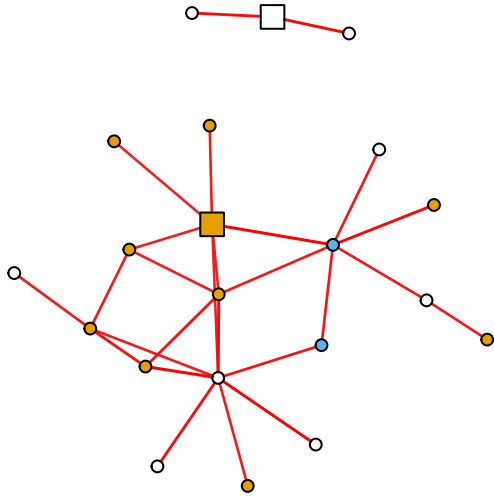
## [35,] 0.0000000 0.0000000 0.0000000
## [36,] 0.0000000 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.0000000 0.0000000
## [39,] 0.2638521 0.0000000 0.3518286
## [40,] 0.0000000 0.2536896 0.2545521
## [41,] 0.0000000 0.0000000 0.0000000
## [42,] 0.0000000 0.0000000 0.0000000
## [43,] 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.2502191 0.0000000
## [46,] 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000
## [49,] 0.2858830 0.0000000 0.2271947
## [50,] 0.0000000 0.0000000 0.0000000
## [51,] 0.0000000 0.0000000 0.0000000
## [52,] 0.0000000 0.0000000 0.2666975
## [53,] 0.0000000 0.0000000 0.0000000
## [54,] 0.3624896 0.0000000 0.0000000
## [55,] 0.0000000 0.0000000 0.2662262
## [56,] 0.0000000 0.0000000 0.2789799
## [57,] 0.0000000 0.0000000 0.3146247
## [58,] 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000
## [62,] 0.2946164 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000
## [64,] 0.0000000 0.0000000 0.0000000
## [65,] 0.2999294 0.0000000 0.2858677
## [66,] 0.2121722 0.2271059 0.3242407
## [67,] 0.2521385 0.2856956 0.2261707
## [68,] 0.2392153 0.0000000 0.2834311
## [69,] 0.0000000 0.3037232 0.2894181
## [70,] 0.3037232 0.0000000 0.0000000
## [71,] 0.2894181 0.0000000 0.0000000

```

```

vis.motif(motif.graphs,70L,c1,threshold=0.45, other.idx=c(1L,12L), weight.scaling.factor=1.5, important

```



##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[4,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[11,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[12,]	0.0000000	0.0000000	0.0000000	0.4154741	0.0000000	0.0000000	0.0000000
##	[13,]	0.0000000	0.0000000	0.0000000	0.4404554	0.0000000	0.0000000	0.0000000
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.15276603	0.0000000	0.0000000
##	[19,]	0.1766888	0.1380360	0.1592297	0.4151106	0.0000000	0.09068217	0.2509688
##	[20,]	0.1855985	0.1611727	0.0000000	0.3929498	0.16702061	0.0000000	0.0000000
##	[21,]	0.2008734	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[22,]	0.1996032	0.1654896	0.0000000	0.3967530	0.0000000	0.0000000	0.0000000
##	[23,]	0.1881600	0.0000000	0.1681215	0.3949506	0.17522778	0.0000000	0.0000000
##	[24,]	0.1860858	0.1887170	0.0000000	0.0000000	0.0000000	0.09347763	0.0000000
##	[25,]	0.0000000	0.0000000	0.1724035	0.0000000	0.0000000	0.0000000	0.0000000
##	[26,]	0.1568469	0.1320460	0.0000000	0.4410175	0.18656038	0.07995958	0.0000000
##	[27,]	0.1842912	0.1723664	0.0000000	0.3898168	0.16126066	0.09031883	0.0000000
##	[28,]	0.0000000	0.0000000	0.1865362	0.2952469	0.16255042	0.07900328	0.1843472
##	[29,]	0.1549979	0.1492206	0.0000000	0.3511780	0.0000000	0.0000000	0.0000000
##	[30,]	0.1706052	0.0000000	0.1964180	0.0000000	0.0000000	0.10566119	0.0000000
##	[31,]	0.0000000	0.0000000	0.0000000	0.3055006	0.20361048	0.09148064	0.0000000
##	[32,]	0.0000000	0.0000000	0.0000000	0.0000000	0.15729821	0.08397985	0.0000000
##	[33,]	0.0000000	0.0000000	0.0000000	0.0000000	0.19398265	0.0000000	0.1606342
##	[34,]	0.0000000	0.1807781	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[35,]	0.0000000	0.0000000	0.0000000	0.2911022	0.19571579	0.10846721	0.1741122
##	[36,]	0.2045820	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[37,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

```

## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.1738214 0.0000000 0.0000000 0.0000000 0.15596561 0.0000000 0.0000000 0.0000000
## [40,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [41,] 0.1970363 0.0000000 0.3469371 0.3493249 0.0000000 0.0000000 0.0000000 0.0000000
## [42,] 0.0000000 0.1876426 0.0000000 0.2815053 0.25505699 0.0000000 0.0000000 0.0000000
## [43,] 0.1896045 0.1848357 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.1763377 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.2839769 0.0000000 0.0000000 0.0000000 0.0000000
## [46,] 0.0000000 0.0000000 0.0000000 0.1659262 0.0000000 0.0000000 0.0000000 0.2230528
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.1751482 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0.3402285 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.08195600 0.07928466 0.0000000 0.0000000
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.17933530 0.20224319 0.0000000 0.0000000
## [52,] 0.3321229 0.0000000 0.3545930 0.4316393 0.34008879 0.0000000 0.0000000 0.0000000
## [53,] 0.0000000 0.1676817 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.1941841 0.0000000 0.2925188 0.3903143 0.17482332 0.20777527 0.0000000 0.0000000
## [55,] 0.0000000 0.0000000 0.1668086 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [56,] 0.3105823 0.0000000 0.0000000 0.0000000 0.22897820 0.0000000 0.0000000 0.0000000
## [57,] 0.3438946 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [58,] 0.2575627 0.0000000 0.2147366 0.0000000 0.09395596 0.09153718 0.1111126 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.06980198 0.08885692 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.2718330 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.1773344 0.0000000 0.0000000 0.0000000 0.2030216
## [62,] 0.0000000 0.0000000 0.0000000 0.2836870 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.09558192 0.0000000 0.0000000 0.0000000
## [64,] 0.3623547 0.1544762 0.4358520 0.4368591 0.0000000 0.0000000 0.0000000 0.1699515
## [65,] 0.3364703 0.0000000 0.1674201 0.2564581 0.19786015 0.08203965 0.0000000 0.0000000
## [66,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.2264818 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
##      [,8]      [,9]      [,10]      [,11]      [,12]      [,13]      [,14]
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000 0.0000000 0.0000000 0.0000000 0.4154741 0.4404554 0.0000000 0.0000000
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.1879021 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3074138 0.0000000 0.0000000 0.0000000
## [12,] 0.1879021 0.0000000 0.0000000 0.3074138 0.0000000 0.3069871 0.0000000 0.0000000
## [13,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3069871 0.0000000 0.0000000 0.0000000
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.1994706 0.0000000 0.0000000 0.2592822 0.3055743 0.0000000 0.0000000

```

```

## [20,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.4508668 0.21175835
## [21,] 0.0000000 0.1618445 0.0000000 0.2626806 0.0000000 0.4518343 0.00000000
## [22,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000
## [23,] 0.1721900 0.0000000 0.0000000 0.2875683 0.0000000 0.2931396 0.00000000
## [24,] 0.1669948 0.0000000 0.07677158 0.2594693 0.2467723 0.4546005 0.00000000
## [25,] 0.0000000 0.1704712 0.0000000 0.0000000 0.2943292 0.0000000 0.22501100
## [26,] 0.1834863 0.1846695 0.0000000 0.2856960 0.2425829 0.4349068 0.00000000
## [27,] 0.0000000 0.2027894 0.09340605 0.2797906 0.2778686 0.2784802 0.00000000
## [28,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2824268 0.3039302 0.23902586
## [29,] 0.0000000 0.1687028 0.0000000 0.0000000 0.2826873 0.0000000 0.00000000
## [30,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.33718647
## [31,] 0.0000000 0.0000000 0.25309730 0.0000000 0.2851173 0.3106149 0.00000000
## [32,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.30237651
## [33,] 0.0000000 0.0000000 0.24642934 0.0000000 0.0000000 0.3273798 0.00000000
## [34,] 0.0000000 0.0000000 0.09226844 0.0000000 0.2628021 0.0000000 0.00000000
## [35,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.31960655
## [36,] 0.1817271 0.0000000 0.0000000 0.0000000 0.4016784 0.3930014 0.00000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000
## [38,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.4584977 0.00000000
## [39,] 0.0000000 0.0000000 0.0000000 0.2540956 0.3774910 0.3017139 0.00000000
## [40,] 0.0000000 0.0000000 0.0000000 0.2724696 0.0000000 0.0000000 0.00000000
## [41,] 0.1821604 0.0000000 0.0000000 0.2491756 0.4666462 0.4449673 0.00000000
## [42,] 0.0000000 0.1763069 0.0000000 0.2953204 0.2298524 0.2807599 0.29681433
## [43,] 0.1771421 0.3631934 0.0000000 0.2593947 0.0000000 0.3464902 0.00000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000
## [45,] 0.0000000 0.2109299 0.0000000 0.0000000 0.2691501 0.0000000 0.00000000
## [46,] 0.0000000 0.0000000 0.0000000 0.1781453 0.0000000 0.0000000 0.00000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000
## [48,] 0.0000000 0.1694478 0.09124591 0.3086662 0.2548335 0.3771194 0.32771755
## [49,] 0.1825566 0.0000000 0.0000000 0.2515307 0.3760748 0.2713618 0.00000000
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.1926494 0.0000000 0.32622846
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2943011 0.00000000
## [52,] 0.1876245 0.0000000 0.0000000 0.4065190 0.4393224 0.4629702 0.00000000
## [53,] 0.0000000 0.0000000 0.08447184 0.0000000 0.0000000 0.0000000 0.00000000
## [54,] 0.0000000 0.0000000 0.0000000 0.2539597 0.3598979 0.3027175 0.00000000
## [55,] 0.0000000 0.0000000 0.10534012 0.0000000 0.0000000 0.2703101 0.00000000
## [56,] 0.0000000 0.0000000 0.0000000 0.2323155 0.3170033 0.2780833 0.00000000
## [57,] 0.3445821 0.3263575 0.0000000 0.4341002 0.4234809 0.4359657 0.00000000
## [58,] 0.0000000 0.0000000 0.0000000 0.3495106 0.3278778 0.3634815 0.00000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0644438 0.0000000 0.0000000 0.00000000
## [60,] 0.1863401 0.1912338 0.08545719 0.2876559 0.2427276 0.0000000 0.00000000
## [61,] 0.0000000 0.0000000 0.0000000 0.2029078 0.0000000 0.0000000 0.00000000
## [62,] 0.0000000 0.0000000 0.0000000 0.2990182 0.2958365 0.0000000 0.00000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.29432762
## [64,] 0.3891999 0.4041228 0.09720680 0.0000000 0.4675056 0.5271304 0.00000000
## [65,] 0.1869456 0.3152248 0.0000000 0.2589558 0.0000000 0.2646792 0.00000000
## [66,] 0.0000000 0.0000000 0.0000000 0.2540487 0.2373712 0.2951425 0.00000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3084564 0.00000000
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3796539 0.3311517 0.21237717
## [69,] 0.0000000 0.0000000 0.0000000 0.2914556 0.0000000 0.2712793 0.30281960
## [70,] 0.0000000 0.0000000 0.0000000 0.1753877 0.0000000 0.1828170 0.08924545
## [71,] 0.0000000 0.0000000 0.0000000 0.4319947 0.0000000 0.3250350 0.36898386
##      [,15]      [,16]      [,17]      [,18]      [,19]      [,20]      [,21]
## [1,] 0.00000000 0.00000000 0.00000000 0.00000000 0.17668879 0.1855985 0.2008734

```

```

## [2,] 0.00000000 0.00000000 0.00000000 0.00000000 0.13803595 0.1611727 0.00000000
## [3,] 0.00000000 0.00000000 0.00000000 0.00000000 0.15922970 0.00000000 0.00000000
## [4,] 0.00000000 0.00000000 0.00000000 0.00000000 0.41511060 0.3929498 0.00000000
## [5,] 0.00000000 0.00000000 0.00000000 0.15276603 0.00000000 0.1670206 0.00000000
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.09068217 0.00000000 0.00000000
## [7,] 0.00000000 0.00000000 0.00000000 0.00000000 0.25096884 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [9,] 0.00000000 0.00000000 0.00000000 0.00000000 0.19947058 0.00000000 0.1618445
## [10,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [11,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.2626806
## [12,] 0.00000000 0.00000000 0.00000000 0.00000000 0.25928216 0.00000000 0.00000000
## [13,] 0.00000000 0.00000000 0.00000000 0.00000000 0.30557428 0.4508668 0.4518343
## [14,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.2117583 0.00000000
## [15,] 0.00000000 0.00000000 0.00000000 0.00000000 0.20113594 0.1790897 0.00000000
## [16,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [17,] 0.00000000 0.00000000 0.00000000 0.00000000 0.30898606 0.00000000 0.2811888
## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [19,] 0.20113594 0.00000000 0.3089861 0.00000000 0.00000000 0.4817916 0.4027929
## [20,] 0.17908971 0.00000000 0.00000000 0.00000000 0.48179164 0.00000000 0.4355893
## [21,] 0.00000000 0.00000000 0.2811888 0.00000000 0.40279294 0.4355893 0.00000000
## [22,] 0.29064385 0.2506008 0.2774658 0.00000000 0.28830659 0.5234151 0.00000000
## [23,] 0.00000000 0.00000000 0.00000000 0.16038949 0.00000000 0.4985239 0.00000000
## [24,] 0.00000000 0.00000000 0.2836059 0.00000000 0.27488792 0.5151419 0.4464580
## [25,] 0.00000000 0.00000000 0.3100017 0.00000000 0.00000000 0.3640162 0.00000000
## [26,] 0.18643670 0.1847239 0.2741182 0.00000000 0.28013499 0.4656613 0.4092678
## [27,] 0.19708933 0.1759404 0.00000000 0.00000000 0.00000000 0.5302794 0.4135353
## [28,] 0.19004896 0.1918253 0.2701887 0.18888388 0.29069861 0.00000000 0.00000000
## [29,] 0.17402694 0.1826251 0.2618408 0.00000000 0.23738481 0.3494638 0.00000000
## [30,] 0.00000000 0.00000000 0.2510118 0.00000000 0.25141811 0.2995100 0.00000000
## [31,] 0.19715851 0.00000000 0.00000000 0.18055517 0.00000000 0.3342798 0.3250415
## [32,] 0.21255739 0.2383746 0.00000000 0.00000000 0.24366053 0.00000000 0.00000000
## [33,] 0.00000000 0.00000000 0.00000000 0.14892506 0.00000000 0.00000000 0.2473490
## [34,] 0.00000000 0.1866639 0.2506691 0.00000000 0.31887244 0.00000000 0.00000000
## [35,] 0.21566633 0.00000000 0.00000000 0.16995195 0.32321736 0.3284174 0.00000000
## [36,] 0.28832398 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [37,] 0.22561717 0.00000000 0.00000000 0.00000000 0.10212948 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [39,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [40,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.2477543 0.4425124
## [41,] 0.21489337 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.2609981
## [42,] 0.00000000 0.2867311 0.2803982 0.00000000 0.27035571 0.3387050 0.00000000
## [43,] 0.00000000 0.00000000 0.00000000 0.00000000 0.29958455 0.4609174 0.4275998
## [44,] 0.21273297 0.2145908 0.2897369 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.3722067 0.00000000 0.28325720 0.00000000 0.00000000
## [46,] 0.00000000 0.00000000 0.00000000 0.00000000 0.20168510 0.00000000 0.00000000
## [47,] 0.35100017 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.3193053 0.3585185 0.00000000 0.00000000 0.00000000 0.00000000
## [49,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.4131749
## [50,] 0.00000000 0.00000000 0.00000000 0.07836029 0.00000000 0.00000000 0.00000000
## [51,] 0.00000000 0.00000000 0.00000000 0.17866906 0.00000000 0.00000000 0.00000000
## [52,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.2669301
## [53,] 0.00000000 0.2248053 0.00000000 0.00000000 0.32618565 0.00000000 0.00000000
## [54,] 0.19054905 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [55,] 0.00000000 0.2994677 0.00000000 0.00000000 0.00000000 0.2874575 0.3131381

```

```

## [56,] 0.21601237 0.00000000 0.00000000 0.00000000 0.00000000 0.4355485 0.3997865
## [57,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.0000000 0.3958284
## [58,] 0.00000000 0.00000000 0.00000000 0.07874219 0.00000000 0.0000000 0.0000000
## [59,] 0.00000000 0.00000000 0.00000000 0.06538456 0.00000000 0.0000000 0.0000000
## [60,] 0.00000000 0.3026308 0.3073694 0.00000000 0.32560930 0.0000000 0.0000000
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
## [62,] 0.27888398 0.00000000 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
## [63,] 0.31099396 0.00000000 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
## [64,] 0.00000000 0.3253043 0.4412573 0.37726416 0.47344328 0.0000000 0.0000000
## [65,] 0.19030563 0.00000000 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
## [66,] 0.00000000 0.2389367 0.3238805 0.00000000 0.00000000 0.0000000 0.2727099
## [67,] 0.00000000 0.3242002 0.4211362 0.00000000 0.00000000 0.0000000 0.0000000
## [68,] 0.00000000 0.3397989 0.3979763 0.00000000 0.00000000 0.3359842 0.2872137
## [69,] 0.00000000 0.0000000 0.2963278 0.00000000 0.00000000 0.0000000 0.0000000
## [70,] 0.08147975 0.0922732 0.0000000 0.00000000 0.16552054 0.0000000 0.1958378
## [71,] 0.38111938 0.4993283 0.5123634 0.00000000 0.00000000 0.0000000 0.0000000
##      [,22]      [,23]      [,24]      [,25]      [,26]      [,27]      [,28]
## [1,] 0.1996032 0.1881600 0.18608581 0.0000000 0.15684687 0.18429121 0.00000000
## [2,] 0.1654896 0.0000000 0.18871701 0.0000000 0.13204598 0.17236640 0.00000000
## [3,] 0.0000000 0.1681215 0.00000000 0.1724035 0.00000000 0.00000000 0.18653622
## [4,] 0.3967530 0.3949506 0.00000000 0.0000000 0.44101747 0.38981677 0.29524693
## [5,] 0.0000000 0.1752278 0.00000000 0.0000000 0.18656038 0.16126066 0.16255042
## [6,] 0.0000000 0.0000000 0.09347763 0.0000000 0.07995958 0.09031883 0.07900328
## [7,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.18434721
## [8,] 0.0000000 0.1721900 0.16699482 0.0000000 0.18348627 0.00000000 0.00000000
## [9,] 0.0000000 0.0000000 0.00000000 0.1704712 0.18466945 0.20278941 0.00000000
## [10,] 0.0000000 0.0000000 0.07677158 0.0000000 0.00000000 0.09340605 0.00000000
## [11,] 0.0000000 0.2875683 0.25946928 0.0000000 0.28569598 0.27979063 0.00000000
## [12,] 0.0000000 0.0000000 0.24677231 0.2943292 0.24258289 0.27786859 0.28242685
## [13,] 0.0000000 0.2931396 0.45460046 0.0000000 0.43490684 0.27848023 0.30393016
## [14,] 0.0000000 0.0000000 0.00000000 0.2250110 0.00000000 0.00000000 0.23902586
## [15,] 0.2906439 0.0000000 0.00000000 0.0000000 0.18643670 0.19708933 0.19004896
## [16,] 0.2506008 0.0000000 0.00000000 0.0000000 0.18472386 0.17594043 0.19182528
## [17,] 0.2774658 0.0000000 0.28360592 0.3100017 0.27411818 0.00000000 0.27018874
## [18,] 0.0000000 0.1603895 0.00000000 0.0000000 0.00000000 0.00000000 0.18888388
## [19,] 0.2883066 0.0000000 0.27488792 0.0000000 0.28013499 0.00000000 0.29069861
## [20,] 0.5234151 0.4985239 0.51514189 0.3640162 0.46566131 0.53027943 0.00000000
## [21,] 0.0000000 0.0000000 0.44645804 0.0000000 0.40926784 0.41353531 0.00000000
## [22,] 0.0000000 0.0000000 0.00000000 0.0000000 0.25445871 0.00000000 0.27490398
## [23,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.39004277 0.00000000
## [24,] 0.0000000 0.0000000 0.00000000 0.0000000 0.29255040 0.49128181 0.32255231
## [25,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.23850878
## [26,] 0.2544587 0.0000000 0.29255040 0.0000000 0.00000000 0.49322384 0.35224874
## [27,] 0.0000000 0.3900428 0.49128181 0.0000000 0.49322384 0.00000000 0.00000000
## [28,] 0.2749040 0.0000000 0.32255231 0.2385088 0.35224874 0.00000000 0.00000000
## [29,] 0.0000000 0.0000000 0.00000000 0.0000000 0.28623069 0.34698822 0.24933669
## [30,] 0.3496765 0.0000000 0.26682289 0.2604296 0.27990719 0.00000000 0.27704290
## [31,] 0.2884977 0.0000000 0.37519206 0.0000000 0.29978567 0.00000000 0.25764643
## [32,] 0.2836645 0.0000000 0.00000000 0.0000000 0.25477714 0.00000000 0.26375892
## [33,] 0.3343170 0.2834874 0.28328908 0.2830670 0.27523275 0.00000000 0.00000000
## [34,] 0.3905208 0.0000000 0.00000000 0.0000000 0.27060384 0.35134094 0.34509111
## [35,] 0.0000000 0.0000000 0.00000000 0.2519250 0.31592200 0.00000000 0.27846241
## [36,] 0.0000000 0.0000000 0.41444650 0.0000000 0.46961336 0.00000000 0.00000000
## [37,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000

```

```

## [38,] 0.0000000 0.0000000 0.46280571 0.0000000 0.46623145 0.00000000 0.00000000
## [39,] 0.3713432 0.0000000 0.00000000 0.0000000 0.29270762 0.00000000 0.00000000
## [40,] 0.0000000 0.0000000 0.28086537 0.0000000 0.35724939 0.30203683 0.00000000
## [41,] 0.3402079 0.2688310 0.33194035 0.0000000 0.29877958 0.42993728 0.00000000
## [42,] 0.0000000 0.0000000 0.28738189 0.0000000 0.29728407 0.31678042 0.24384340
## [43,] 0.0000000 0.0000000 0.42025126 0.0000000 0.34294600 0.40529987 0.00000000
## [44,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [45,] 0.0000000 0.0000000 0.00000000 0.2682658 0.00000000 0.00000000 0.25385762
## [46,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.17177197
## [47,] 0.3518086 0.2889894 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [48,] 0.0000000 0.0000000 0.32983917 0.0000000 0.00000000 0.00000000 0.00000000
## [49,] 0.3611678 0.0000000 0.00000000 0.0000000 0.35617324 0.00000000 0.00000000
## [50,] 0.0000000 0.0000000 0.00000000 0.1760514 0.00000000 0.00000000 0.18322171
## [51,] 0.3306130 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [52,] 0.0000000 0.2698617 0.29354962 0.0000000 0.26355299 0.00000000 0.00000000
## [53,] 0.0000000 0.0000000 0.39413323 0.0000000 0.00000000 0.00000000 0.00000000
## [54,] 0.3352484 0.0000000 0.00000000 0.0000000 0.28478781 0.00000000 0.00000000
## [55,] 0.3320290 0.2587797 0.33061207 0.0000000 0.30983734 0.35373439 0.00000000
## [56,] 0.3585246 0.3206170 0.34572739 0.0000000 0.31317568 0.35364325 0.00000000
## [57,] 0.0000000 0.0000000 0.34768205 0.0000000 0.00000000 0.41464127 0.00000000
## [58,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.19647993
## [59,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [60,] 0.0000000 0.0000000 0.00000000 0.0000000 0.32225512 0.00000000 0.00000000
## [61,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [62,] 0.0000000 0.0000000 0.00000000 0.0000000 0.32384404 0.00000000 0.00000000
## [63,] 0.0000000 0.0000000 0.00000000 0.1744627 0.00000000 0.00000000 0.18465329
## [64,] 0.3318795 0.0000000 0.47141966 0.0000000 0.00000000 0.00000000 0.00000000
## [65,] 0.3525669 0.0000000 0.29456086 0.0000000 0.28231240 0.31802254 0.00000000
## [66,] 0.3494972 0.3053494 0.35628771 0.0000000 0.35202120 0.00000000 0.29603596
## [67,] 0.0000000 0.0000000 0.35856064 0.0000000 0.00000000 0.00000000 0.00000000
## [68,] 0.3107222 0.0000000 0.00000000 0.0000000 0.29034866 0.33322904 0.00000000
## [69,] 0.0000000 0.0000000 0.00000000 0.0000000 0.39933246 0.00000000 0.00000000
## [70,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.15136386
## [71,] 0.3418347 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
##      [,29]      [,30]      [,31]      [,32]      [,33]      [,34]
## [1,] 0.1549979 0.17060521 0.00000000 0.00000000 0.00000000 0.00000000
## [2,] 0.1492206 0.00000000 0.00000000 0.00000000 0.00000000 0.18077815
## [3,] 0.0000000 0.19641803 0.00000000 0.00000000 0.00000000 0.00000000
## [4,] 0.3511780 0.00000000 0.30550064 0.00000000 0.00000000 0.00000000
## [5,] 0.0000000 0.00000000 0.20361048 0.15729821 0.19398265 0.00000000
## [6,] 0.0000000 0.10566119 0.09148064 0.08397985 0.00000000 0.00000000
## [7,] 0.0000000 0.00000000 0.00000000 0.00000000 0.16063423 0.00000000
## [8,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [9,] 0.1687028 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [10,] 0.0000000 0.00000000 0.25309730 0.00000000 0.24642934 0.09226844
## [11,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [12,] 0.2826873 0.00000000 0.28511729 0.00000000 0.00000000 0.26280209
## [13,] 0.0000000 0.00000000 0.31061490 0.00000000 0.32737975 0.00000000
## [14,] 0.0000000 0.33718647 0.00000000 0.30237651 0.00000000 0.00000000
## [15,] 0.1740269 0.00000000 0.19715851 0.21255739 0.00000000 0.00000000
## [16,] 0.1826251 0.00000000 0.00000000 0.23837461 0.00000000 0.18666387
## [17,] 0.2618408 0.25101182 0.00000000 0.00000000 0.00000000 0.25066912
## [18,] 0.0000000 0.00000000 0.18055517 0.00000000 0.14892506 0.00000000
## [19,] 0.2373848 0.25141811 0.00000000 0.24366053 0.00000000 0.31887244

```

```

## [20,] 0.3494638 0.29951004 0.33427977 0.00000000 0.00000000 0.00000000
## [21,] 0.0000000 0.00000000 0.32504152 0.00000000 0.24734898 0.00000000
## [22,] 0.0000000 0.34967655 0.28849771 0.28366450 0.33431698 0.39052080
## [23,] 0.0000000 0.00000000 0.00000000 0.00000000 0.28348743 0.00000000
## [24,] 0.0000000 0.26682289 0.37519206 0.00000000 0.28328908 0.00000000
## [25,] 0.0000000 0.26042964 0.00000000 0.00000000 0.28306700 0.00000000
## [26,] 0.2862307 0.27990719 0.29978567 0.25477714 0.27523275 0.27060384
## [27,] 0.3469882 0.00000000 0.00000000 0.00000000 0.00000000 0.35134094
## [28,] 0.2493367 0.27704290 0.25764643 0.26375892 0.00000000 0.34509111
## [29,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.36423468
## [30,] 0.0000000 0.00000000 0.27677843 0.23880210 0.26430999 0.00000000
## [31,] 0.0000000 0.27677843 0.00000000 0.27710623 0.26197822 0.00000000
## [32,] 0.0000000 0.23880210 0.27710623 0.00000000 0.26788884 0.00000000
## [33,] 0.0000000 0.26430999 0.26197822 0.26788884 0.00000000 0.31301561
## [34,] 0.3642347 0.00000000 0.00000000 0.00000000 0.31301561 0.00000000
## [35,] 0.0000000 0.25082475 0.26815636 0.26432540 0.24714376 0.00000000
## [36,] 0.3667731 0.25418059 0.00000000 0.00000000 0.00000000 0.32703332
## [37,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.0000000 0.00000000 0.00000000 0.00000000 0.30133918 0.00000000
## [39,] 0.0000000 0.25534665 0.00000000 0.00000000 0.00000000 0.00000000
## [40,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [41,] 0.3472587 0.00000000 0.27098019 0.00000000 0.29450312 0.00000000
## [42,] 0.3294792 0.29105365 0.00000000 0.00000000 0.00000000 0.36971809
## [43,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [46,] 0.0000000 0.17811974 0.17447724 0.00000000 0.00000000 0.22552614
## [47,] 0.0000000 0.28117710 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.3197441 0.00000000 0.00000000 0.00000000 0.00000000 0.35061781
## [49,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [50,] 0.0000000 0.14104492 0.17910773 0.18586366 0.00000000 0.00000000
## [51,] 0.0000000 0.24352612 0.26338254 0.29358072 0.29240489 0.00000000
## [52,] 0.0000000 0.00000000 0.27121602 0.00000000 0.00000000 0.00000000
## [53,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.0000000 0.00000000 0.00000000 0.00000000 0.25675962 0.00000000
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## [56,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.36504028
## [57,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [58,] 0.0000000 0.14803610 0.21726191 0.14178837 0.18424673 0.00000000
## [59,] 0.0000000 0.09793059 0.10220117 0.06999554 0.08954815 0.00000000
## [60,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.37841465
## [61,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.28702495
## [62,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [63,] 0.0000000 0.19329145 0.17406555 0.19416647 0.18427951 0.00000000
## [64,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.42218842
## [65,] 0.0000000 0.27143213 0.00000000 0.00000000 0.00000000 0.00000000
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## [67,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [68,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [69,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [70,] 0.2688924 0.00000000 0.00000000 0.18410073 0.00000000 0.00000000
## [71,] 0.0000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
##      [,35]      [,36]      [,37]      [,38]      [,39]      [,40]      [,41]
## [1,] 0.0000000 0.2045820 0.00000000 0.0000000 0.1738214 0.0000000 0.1970363

```



```

## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3469371
## [4,] 0.2911022 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3493249
## [5,] 0.1957158 0.0000000 0.0000000 0.0000000 0.1559656 0.0000000 0.0000000
## [6,] 0.1084672 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.1741122 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.1817271 0.0000000 0.0000000 0.0000000 0.0000000 0.1821604
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2540956 0.2724696 0.2491756
## [12,] 0.0000000 0.4016784 0.0000000 0.0000000 0.3774910 0.0000000 0.4666462
## [13,] 0.0000000 0.3930014 0.0000000 0.4584977 0.3017139 0.0000000 0.4449673
## [14,] 0.3196066 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.2156663 0.2883240 0.22561717 0.0000000 0.0000000 0.0000000 0.2148934
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [18,] 0.1699520 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.3232174 0.0000000 0.10212948 0.0000000 0.0000000 0.0000000 0.0000000
## [20,] 0.3284174 0.0000000 0.0000000 0.0000000 0.0000000 0.2477543 0.0000000
## [21,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.4425124 0.2609981
## [22,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3713432 0.0000000 0.3402079
## [23,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2688310
## [24,] 0.0000000 0.4144465 0.0000000 0.4628057 0.0000000 0.2808654 0.3319404
## [25,] 0.2519250 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [26,] 0.3159220 0.4696134 0.0000000 0.4662314 0.2927076 0.3572494 0.2987796
## [27,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3020368 0.4299373
## [28,] 0.2784624 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.3667731 0.0000000 0.0000000 0.0000000 0.0000000 0.3472587
## [30,] 0.2508248 0.2541806 0.0000000 0.0000000 0.2553467 0.0000000 0.0000000
## [31,] 0.2681564 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2709802
## [32,] 0.2643254 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
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## [34,] 0.0000000 0.3270333 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [35,] 0.0000000 0.0000000 0.0000000 0.2966037 0.0000000 0.0000000 0.0000000
## [36,] 0.0000000 0.0000000 0.0000000 0.4347483 0.0000000 0.0000000 0.3515879
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.2966037 0.4347483 0.0000000 0.0000000 0.0000000 0.4026894 0.3969747
## [39,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3079680 0.2541916
## [40,] 0.0000000 0.0000000 0.0000000 0.4026894 0.3079680 0.0000000 0.2629084
## [41,] 0.0000000 0.3515879 0.0000000 0.3969747 0.2541916 0.2629084 0.0000000
## [42,] 0.0000000 0.0000000 0.09259931 0.2622727 0.2697916 0.2745471 0.2628326
## [43,] 0.0000000 0.4073655 0.0000000 0.0000000 0.0000000 0.2253695 0.3967548
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2553252
## [46,] 0.1661611 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.2636216 0.08263079 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.2496803 0.2650825 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2600666 0.3803188
## [50,] 0.1774260 0.0000000 0.07085526 0.0000000 0.0000000 0.0000000 0.1970346
## [51,] 0.2730211 0.0000000 0.0000000 0.2555531 0.2582711 0.2729770 0.2370458
## [52,] 0.0000000 0.2611835 0.0000000 0.2996921 0.2655010 0.2678016 0.2904252
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.2575367 0.0000000 0.0000000 0.0000000 0.2964632 0.2591491
## [55,] 0.0000000 0.2850365 0.0000000 0.2946362 0.2430779 0.2858874 0.2709432

```

```

## [56,] 0.0000000 0.0000000 0.0000000 0.3869960 0.2619121 0.2573235 0.2821495
## [57,] 0.0000000 0.0000000 0.0000000 0.4026383 0.3235562 0.2221309 0.2969930
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.2873917 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.10364741 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.1960196 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.0000000 0.2716277 0.0000000 0.2407028 0.2858832 0.2647462 0.2089218
## [66,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2772440 0.2692019 0.2357974
## [67,] 0.0000000 0.0000000 0.0000000 0.4090419 0.2926551 0.2860560 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2816721 0.2589806
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2618272 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.1658942 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2854744 0.2800861 0.0000000
##      [,42]      [,43]      [,44]      [,45]      [,46]      [,47]      [,48]
## [1,] 0.0000000 0.1896045 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.18764257 0.1848357 0.1763377 0.0000000 0.0000000 0.0000000 0.17514817
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.28150533 0.0000000 0.0000000 0.2839769 0.1659262 0.0000000 0.0000000
## [5,] 0.25505699 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2230528 0.0000000 0.0000000
## [8,] 0.0000000 0.1771421 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.17630691 0.3631934 0.0000000 0.2109299 0.0000000 0.0000000 0.16944780
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.09124591
## [11,] 0.29532037 0.2593947 0.0000000 0.0000000 0.1781453 0.0000000 0.30866625
## [12,] 0.22985238 0.0000000 0.0000000 0.2691501 0.0000000 0.0000000 0.25483345
## [13,] 0.28075995 0.3464902 0.0000000 0.0000000 0.0000000 0.0000000 0.37711937
## [14,] 0.29681433 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.32771755
## [15,] 0.0000000 0.0000000 0.2127330 0.0000000 0.0000000 0.35100017 0.0000000
## [16,] 0.28673107 0.0000000 0.2145908 0.0000000 0.0000000 0.0000000 0.31930529
## [17,] 0.28039823 0.0000000 0.2897369 0.3722067 0.0000000 0.0000000 0.35851852
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.27035571 0.2995845 0.0000000 0.2832572 0.2016851 0.0000000 0.0000000
## [20,] 0.33870495 0.4609174 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [21,] 0.0000000 0.4275998 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [22,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.35180860 0.0000000
## [23,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.28898936 0.0000000
## [24,] 0.28738189 0.4202513 0.0000000 0.0000000 0.0000000 0.0000000 0.32983917
## [25,] 0.0000000 0.0000000 0.0000000 0.2682658 0.0000000 0.0000000 0.0000000
## [26,] 0.29728407 0.3429460 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [27,] 0.31678042 0.4052999 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [28,] 0.24384340 0.0000000 0.0000000 0.2538576 0.1717720 0.0000000 0.0000000
## [29,] 0.32947920 0.0000000 0.0000000 0.3707897 0.0000000 0.0000000 0.31974413
## [30,] 0.29105365 0.0000000 0.0000000 0.0000000 0.1781197 0.28117710 0.0000000
## [31,] 0.0000000 0.0000000 0.0000000 0.0000000 0.1744772 0.0000000 0.0000000
## [32,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [33,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [34,] 0.36971809 0.0000000 0.3262845 0.3447046 0.2255261 0.0000000 0.35061781
## [35,] 0.0000000 0.0000000 0.0000000 0.0000000 0.1661611 0.0000000 0.0000000
## [36,] 0.0000000 0.4073655 0.0000000 0.0000000 0.0000000 0.26362164 0.0000000
## [37,] 0.09259931 0.0000000 0.0000000 0.0000000 0.0000000 0.08263079 0.0000000

```

```

## [38,] 0.26227266 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.24968032
## [39,] 0.26979160 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.26508245
## [40,] 0.27454711 0.2253695 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [41,] 0.26283258 0.3967548 0.0000000 0.2553252 0.0000000 0.0000000 0.0000000 0.0000000
## [42,] 0.00000000 0.0000000 0.0000000 0.2994884 0.0000000 0.0000000 0.0000000 0.32849173
## [43,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.31825379
## [44,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.29948843 0.0000000 0.0000000 0.0000000 0.1828829 0.0000000 0.0000000 0.30328603
## [46,] 0.00000000 0.0000000 0.0000000 0.1828829 0.0000000 0.0000000 0.0000000 0.19698102
## [47,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.32849173 0.3182538 0.0000000 0.3032860 0.1969810 0.0000000 0.0000000 0.0000000
## [49,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [50,] 0.19635202 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.00000000 0.3033454 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [52,] 0.28009745 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [53,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [55,] 0.00000000 0.3425976 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [56,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [57,] 0.00000000 0.3757956 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [58,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.00000000 0.0000000 0.0000000 0.2669819 0.1862347 0.0000000 0.0000000 0.0000000
## [61,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.00000000 0.0000000 0.0000000 0.2518895 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.00000000 0.0000000 0.0000000 0.0000000 0.1005735 0.0000000 0.0000000 0.0000000
## [64,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.35984117
## [65,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [66,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.00000000 0.3925114 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.00000000 0.0000000 0.0000000 0.1799774 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
##      [,49]      [,50]      [,51]      [,52]      [,53]      [,54]      [,55]
## [1,] 0.0000000 0.00000000 0.00000000 0.3321229 0.00000000 0.1941841 0.0000000
## [2,] 0.0000000 0.00000000 0.00000000 0.0000000 0.16768169 0.0000000 0.0000000
## [3,] 0.3402285 0.00000000 0.00000000 0.3545930 0.00000000 0.2925188 0.1668086
## [4,] 0.0000000 0.00000000 0.00000000 0.4316393 0.00000000 0.3903143 0.0000000
## [5,] 0.0000000 0.08195600 0.17933530 0.3400888 0.00000000 0.1748233 0.0000000
## [6,] 0.0000000 0.07928466 0.20224319 0.0000000 0.00000000 0.2077753 0.0000000
## [7,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [8,] 0.1825566 0.00000000 0.00000000 0.1876245 0.00000000 0.0000000 0.0000000
## [9,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [10,] 0.0000000 0.00000000 0.00000000 0.0000000 0.08447184 0.0000000 0.1053401
## [11,] 0.2515307 0.00000000 0.00000000 0.4065190 0.00000000 0.2539597 0.0000000
## [12,] 0.3760748 0.19264941 0.00000000 0.4393224 0.00000000 0.3598979 0.0000000
## [13,] 0.2713618 0.00000000 0.29430107 0.4629702 0.00000000 0.3027175 0.2703101
## [14,] 0.0000000 0.32622846 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [15,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.1905490 0.0000000
## [16,] 0.0000000 0.00000000 0.00000000 0.0000000 0.22480527 0.0000000 0.2994677
## [17,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [18,] 0.0000000 0.07836029 0.17866906 0.0000000 0.00000000 0.0000000 0.0000000
## [19,] 0.0000000 0.00000000 0.00000000 0.0000000 0.32618565 0.0000000 0.0000000

```

```

## [20,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.2874575
## [21,] 0.4131749 0.00000000 0.00000000 0.2669301 0.00000000 0.0000000 0.3131381
## [22,] 0.3611678 0.00000000 0.33061303 0.0000000 0.00000000 0.3352484 0.3320290
## [23,] 0.0000000 0.00000000 0.00000000 0.2698617 0.00000000 0.0000000 0.2587797
## [24,] 0.0000000 0.00000000 0.00000000 0.2935496 0.39413323 0.0000000 0.3306121
## [25,] 0.0000000 0.17605145 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [26,] 0.3561732 0.00000000 0.00000000 0.2635530 0.00000000 0.2847878 0.3098373
## [27,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.3537344
## [28,] 0.0000000 0.18322171 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [29,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [30,] 0.0000000 0.14104492 0.24352612 0.0000000 0.00000000 0.0000000 0.0000000
## [31,] 0.0000000 0.17910773 0.26338254 0.2712160 0.00000000 0.0000000 0.2647300
## [32,] 0.0000000 0.18586366 0.29358072 0.0000000 0.00000000 0.0000000 0.0000000
## [33,] 0.0000000 0.00000000 0.29240489 0.0000000 0.00000000 0.2567596 0.0000000
## [34,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [35,] 0.0000000 0.17742596 0.27302107 0.0000000 0.00000000 0.0000000 0.0000000
## [36,] 0.0000000 0.00000000 0.00000000 0.2611835 0.00000000 0.2575367 0.2850365
## [37,] 0.0000000 0.07085526 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [38,] 0.0000000 0.00000000 0.25555313 0.2996921 0.00000000 0.0000000 0.2946362
## [39,] 0.0000000 0.00000000 0.25827109 0.2655010 0.00000000 0.0000000 0.2430779
## [40,] 0.2600666 0.00000000 0.27297696 0.2678016 0.00000000 0.2964632 0.2858874
## [41,] 0.3803188 0.19703465 0.23704584 0.2904252 0.00000000 0.2591491 0.2709432
## [42,] 0.0000000 0.19635202 0.00000000 0.2800974 0.00000000 0.0000000 0.0000000
## [43,] 0.0000000 0.00000000 0.30334541 0.0000000 0.00000000 0.0000000 0.3425976
## [44,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [45,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [46,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [47,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [48,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [49,] 0.0000000 0.00000000 0.28225494 0.2686105 0.00000000 0.0000000 0.2477990
## [50,] 0.0000000 0.00000000 0.20119816 0.0000000 0.00000000 0.0000000 0.0000000
## [51,] 0.2822549 0.20119816 0.00000000 0.2576731 0.00000000 0.2840466 0.0000000
## [52,] 0.2686105 0.00000000 0.25767311 0.0000000 0.00000000 0.2866429 0.2691018
## [53,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [54,] 0.0000000 0.00000000 0.28404663 0.2866429 0.00000000 0.0000000 0.3027185
## [55,] 0.2477990 0.00000000 0.00000000 0.2691018 0.00000000 0.3027185 0.0000000
## [56,] 0.0000000 0.00000000 0.29158545 0.3172391 0.00000000 0.2700541 0.2562905
## [57,] 0.0000000 0.00000000 0.25703992 0.3115000 0.00000000 0.0000000 0.2364916
## [58,] 0.0000000 0.00000000 0.18575353 0.0000000 0.00000000 0.2117063 0.0000000
## [59,] 0.0000000 0.00000000 0.09404099 0.0000000 0.00000000 0.0000000 0.0000000
## [60,] 0.0000000 0.00000000 0.29952557 0.0000000 0.00000000 0.0000000 0.0000000
## [61,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [62,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [63,] 0.0000000 0.17946747 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [64,] 0.0000000 0.00000000 0.00000000 0.0000000 0.38473266 0.0000000 0.0000000
## [65,] 0.2268242 0.00000000 0.00000000 0.2833551 0.00000000 0.2565430 0.2934376
## [66,] 0.2752389 0.18502057 0.00000000 0.2728168 0.00000000 0.2318125 0.2419274
## [67,] 0.2931910 0.00000000 0.00000000 0.3282285 0.00000000 0.2593736 0.2643329
## [68,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.2408744 0.0000000
## [69,] 0.2597058 0.00000000 0.00000000 0.0000000 0.00000000 0.2538144 0.0000000
## [70,] 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000
## [71,] 0.2763911 0.00000000 0.00000000 0.2898429 0.00000000 0.0000000 0.2785306
##      [,56]      [,57]      [,58]      [,59]      [,60]      [,61]      [,62]
## [1,] 0.3105823 0.3438946 0.25756272 0.00000000 0.00000000 0.0000000 0.0000000

```

```

## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.21473658 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000 0.0000000 0.0000000 0.0000000 0.27183302 0.1773344 0.2836870
## [5,] 0.2289782 0.0000000 0.09395596 0.06980198 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.09153718 0.08885692 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.11111255 0.0000000 0.0000000 0.2030216 0.0000000
## [8,] 0.0000000 0.3445821 0.0000000 0.0000000 0.18634008 0.0000000 0.0000000
## [9,] 0.0000000 0.3263575 0.0000000 0.0000000 0.19123377 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.08545719 0.0000000 0.0000000
## [11,] 0.2323155 0.4341002 0.34951055 0.06444380 0.28765590 0.2029078 0.2990182
## [12,] 0.3170033 0.4234809 0.32787781 0.0000000 0.24272762 0.0000000 0.2958365
## [13,] 0.2780833 0.4359657 0.36348145 0.0000000 0.0000000 0.0000000 0.0000000
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.2160124 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2788840
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.30263078 0.0000000 0.0000000
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.30736944 0.0000000 0.0000000
## [18,] 0.0000000 0.0000000 0.07874219 0.06538456 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.0000000 0.0000000 0.0000000 0.32560930 0.0000000 0.0000000
## [20,] 0.4355485 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [21,] 0.3997865 0.3958284 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [22,] 0.3585246 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [23,] 0.3206170 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.3457274 0.3476820 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [25,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [26,] 0.3131757 0.0000000 0.0000000 0.0000000 0.32225512 0.0000000 0.3238440
## [27,] 0.3536433 0.4146413 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [28,] 0.0000000 0.0000000 0.19647993 0.0000000 0.0000000 0.0000000 0.0000000
## [29,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.0000000 0.0000000 0.14803610 0.09793059 0.0000000 0.0000000 0.0000000
## [31,] 0.0000000 0.0000000 0.21726191 0.10220117 0.0000000 0.0000000 0.0000000
## [32,] 0.0000000 0.0000000 0.14178837 0.06999554 0.0000000 0.0000000 0.0000000
## [33,] 0.0000000 0.0000000 0.18424673 0.08954815 0.0000000 0.0000000 0.0000000
## [34,] 0.3650403 0.0000000 0.0000000 0.0000000 0.37841465 0.2870249 0.0000000
## [35,] 0.0000000 0.0000000 0.0000000 0.0000000 0.28739166 0.0000000 0.0000000
## [36,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.1036474
## [38,] 0.3869960 0.4026383 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.2619121 0.3235562 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [40,] 0.2573235 0.2221309 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [41,] 0.2821495 0.2969930 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [42,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [43,] 0.0000000 0.3757956 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.26698190 0.0000000 0.2518895
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.18623474 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.2915855 0.2570399 0.18575353 0.09404099 0.29952557 0.0000000 0.0000000
## [52,] 0.3172391 0.3115000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.2700541 0.0000000 0.21170625 0.0000000 0.0000000 0.0000000 0.0000000
## [55,] 0.2562905 0.2364916 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

```

```

## [56,] 0.0000000 0.2583267 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.2511379
## [57,] 0.2583267 0.0000000 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.2897841
## [58,] 0.0000000 0.0000000 0.00000000 0.09067100 0.00000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.09067100 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.00000000 0.00000000 0.00000000 0.1825584 0.2750994
## [61,] 0.0000000 0.0000000 0.00000000 0.00000000 0.18255842 0.0000000 0.0000000
## [62,] 0.2511379 0.2897841 0.00000000 0.00000000 0.27509936 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
## [64,] 0.5148462 0.0000000 0.00000000 0.00000000 0.00000000 0.2766978 0.4429482
## [65,] 0.2418564 0.2864380 0.18271310 0.00000000 0.00000000 0.0000000 0.2743125
## [66,] 0.2576446 0.2695561 0.00000000 0.00000000 0.00000000 0.0000000 0.2705246
## [67,] 0.2652923 0.3631855 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
## [68,] 0.0000000 0.0000000 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.00000000 0.00000000 0.00000000 0.0000000 0.2588777
## [70,] 0.0000000 0.0000000 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
## [71,] 0.2782519 0.3369893 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000
##      [,63]      [,64]      [,65]      [,66]      [,67]      [,68]      [,69]
## [1,] 0.00000000 0.3623547 0.33647027 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.00000000 0.1544762 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.00000000 0.4358520 0.16742007 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.00000000 0.4368591 0.25645814 0.0000000 0.0000000 0.0000000 0.0000000
## [5,] 0.09558192 0.0000000 0.19786015 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.00000000 0.0000000 0.08203965 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.00000000 0.1699515 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.00000000 0.3891999 0.18694562 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.00000000 0.4041228 0.31522477 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.00000000 0.0972068 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.00000000 0.0000000 0.25895581 0.2540487 0.0000000 0.0000000 0.2914556
## [12,] 0.00000000 0.4675056 0.00000000 0.2373712 0.0000000 0.3796539 0.0000000
## [13,] 0.00000000 0.5271304 0.26467921 0.2951425 0.3084564 0.3311517 0.2712793
## [14,] 0.29432762 0.0000000 0.00000000 0.0000000 0.0000000 0.2123772 0.3028196
## [15,] 0.31099396 0.0000000 0.19030563 0.0000000 0.0000000 0.0000000 0.0000000
## [16,] 0.00000000 0.3253043 0.00000000 0.2389367 0.3242002 0.3397989 0.0000000
## [17,] 0.00000000 0.4412573 0.00000000 0.3238805 0.4211362 0.3979763 0.2963278
## [18,] 0.00000000 0.3772642 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.00000000 0.4734433 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [20,] 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000 0.3359842 0.0000000
## [21,] 0.00000000 0.0000000 0.00000000 0.2727099 0.0000000 0.2872137 0.0000000
## [22,] 0.00000000 0.3318795 0.35256691 0.3494972 0.0000000 0.3107222 0.0000000
## [23,] 0.00000000 0.0000000 0.00000000 0.3053494 0.0000000 0.0000000 0.0000000
## [24,] 0.00000000 0.4714197 0.29456086 0.3562877 0.3585606 0.0000000 0.0000000
## [25,] 0.17446275 0.0000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [26,] 0.00000000 0.0000000 0.28231240 0.3520212 0.0000000 0.2903487 0.3993325
## [27,] 0.00000000 0.0000000 0.31802254 0.0000000 0.0000000 0.3332290 0.0000000
## [28,] 0.18465329 0.0000000 0.00000000 0.2960360 0.0000000 0.0000000 0.0000000
## [29,] 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.19329145 0.0000000 0.27143213 0.0000000 0.0000000 0.0000000 0.0000000
## [31,] 0.17406555 0.0000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [32,] 0.19416647 0.0000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [33,] 0.18427951 0.0000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [34,] 0.00000000 0.4221884 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [35,] 0.19601957 0.0000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [36,] 0.00000000 0.0000000 0.27162771 0.0000000 0.0000000 0.0000000 0.0000000
## [37,] 0.00000000 0.0000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000

```

```

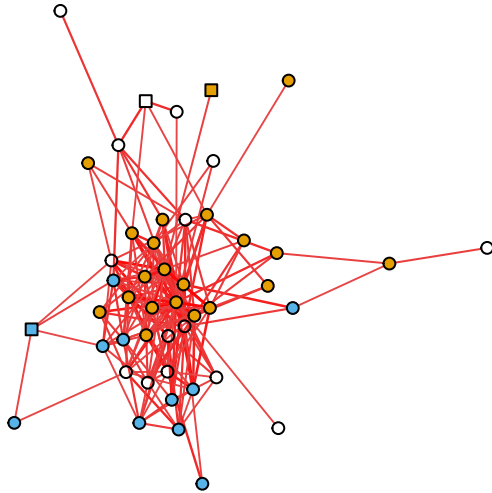
## [38,] 0.00000000 0.00000000 0.24070280 0.00000000 0.4090419 0.00000000 0.00000000
## [39,] 0.00000000 0.00000000 0.28588318 0.2772440 0.2926551 0.00000000 0.2618272
## [40,] 0.00000000 0.00000000 0.26474619 0.2692019 0.2860560 0.2816721 0.00000000
## [41,] 0.00000000 0.00000000 0.20892178 0.2357974 0.00000000 0.2589806 0.00000000
## [42,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [43,] 0.00000000 0.00000000 0.00000000 0.00000000 0.3925114 0.00000000 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [46,] 0.10057355 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.3598412 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [49,] 0.00000000 0.00000000 0.22682419 0.2752389 0.2931910 0.00000000 0.2597058
## [50,] 0.17946747 0.00000000 0.00000000 0.1850206 0.00000000 0.00000000 0.00000000
## [51,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [52,] 0.00000000 0.00000000 0.28335511 0.2728168 0.3282285 0.00000000 0.00000000
## [53,] 0.00000000 0.3847327 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000 0.25654301 0.2318125 0.2593736 0.2408744 0.2538144
## [55,] 0.00000000 0.00000000 0.29343761 0.2419274 0.2643329 0.00000000 0.00000000
## [56,] 0.00000000 0.5148462 0.24185643 0.2576446 0.2652923 0.00000000 0.00000000
## [57,] 0.00000000 0.00000000 0.28643797 0.2695561 0.3631855 0.00000000 0.00000000
## [58,] 0.00000000 0.00000000 0.18271310 0.00000000 0.00000000 0.00000000 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [61,] 0.00000000 0.2766978 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.00000000 0.4429482 0.27431250 0.2705246 0.00000000 0.00000000 0.2588777
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.00000000 0.00000000 0.34279217 0.3722696 0.00000000 0.00000000 0.4728302
## [65,] 0.00000000 0.3427922 0.00000000 0.2716392 0.00000000 0.2256506 0.2596913
## [66,] 0.00000000 0.3722696 0.27163917 0.00000000 0.2538219 0.2861549 0.2770931
## [67,] 0.00000000 0.00000000 0.00000000 0.2538219 0.00000000 0.3312765 0.3068906
## [68,] 0.00000000 0.00000000 0.22565061 0.2861549 0.3312765 0.00000000 0.3066786
## [69,] 0.00000000 0.4728302 0.25969125 0.2770931 0.3068906 0.3066786 0.00000000
## [70,] 0.00000000 0.00000000 0.00000000 0.1984438 0.1713317 0.00000000 0.1951340
## [71,] 0.00000000 0.00000000 0.27666505 0.3945735 0.2725309 0.2615683 0.3400821
##      [,70]      [,71]
## [1,] 0.00000000 0.00000000
## [2,] 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000
## [4,] 0.22648178 0.00000000
## [5,] 0.00000000 0.00000000
## [6,] 0.00000000 0.00000000
## [7,] 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000
## [9,] 0.00000000 0.00000000
## [10,] 0.00000000 0.00000000
## [11,] 0.17538773 0.4319947
## [12,] 0.00000000 0.00000000
## [13,] 0.18281704 0.3250350
## [14,] 0.08924545 0.3689839
## [15,] 0.08147975 0.3811194
## [16,] 0.09227320 0.4993283
## [17,] 0.00000000 0.5123634
## [18,] 0.00000000 0.00000000
## [19,] 0.16552054 0.00000000

```

```
## [20,] 0.00000000 0.00000000
## [21,] 0.19583780 0.00000000
## [22,] 0.00000000 0.3418347
## [23,] 0.00000000 0.00000000
## [24,] 0.00000000 0.00000000
## [25,] 0.00000000 0.00000000
## [26,] 0.00000000 0.00000000
## [27,] 0.00000000 0.00000000
## [28,] 0.15136386 0.00000000
## [29,] 0.26889236 0.00000000
## [30,] 0.00000000 0.00000000
## [31,] 0.00000000 0.00000000
## [32,] 0.18410073 0.00000000
## [33,] 0.00000000 0.00000000
## [34,] 0.00000000 0.00000000
## [35,] 0.00000000 0.00000000
## [36,] 0.00000000 0.00000000
## [37,] 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000
## [39,] 0.00000000 0.2854744
## [40,] 0.16589419 0.2800861
## [41,] 0.00000000 0.00000000
## [42,] 0.00000000 0.00000000
## [43,] 0.00000000 0.00000000
## [44,] 0.00000000 0.00000000
## [45,] 0.17997740 0.00000000
## [46,] 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000
## [49,] 0.00000000 0.2763911
## [50,] 0.00000000 0.00000000
## [51,] 0.00000000 0.00000000
## [52,] 0.00000000 0.2898429
## [53,] 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000
## [55,] 0.00000000 0.2785306
## [56,] 0.00000000 0.2782519
## [57,] 0.00000000 0.3369893
## [58,] 0.00000000 0.00000000
## [59,] 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000
## [61,] 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000
## [63,] 0.00000000 0.00000000
## [64,] 0.00000000 0.00000000
## [65,] 0.00000000 0.2766651
## [66,] 0.19844384 0.3945735
## [67,] 0.17133165 0.2725309
## [68,] 0.00000000 0.2615683
## [69,] 0.19513395 0.3400821
## [70,] 0.00000000 0.00000000
## [71,] 0.00000000 0.00000000
```



```
vis.motif(motif.graphs,70L,c1,threshold=0.25, weight.scaling.factor=1.5, other.idx=c(60L, 7L, 4L), cent.
```



##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]
##	[1,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[2,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[3,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[4,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[5,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[6,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[7,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[8,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[9,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[10,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[11,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[12,]	0.00000000	0	0.00000000	0.3324631	0.00000000	0.00000000	0.00000000
##	[13,]	0.00000000	0	0.00000000	0.2153552	0.00000000	0.00000000	0.00000000
##	[14,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[15,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[16,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[17,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[18,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[19,]	0.12573437	0	0.1225071	0.2303092	0.00000000	0.07760367	0.08120453
##	[20,]	0.16167960	0	0.00000000	0.2614004	0.2477256	0.00000000	0.00000000
##	[21,]	0.15259898	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[22,]	0.06648049	0	0.00000000	0.2391226	0.00000000	0.00000000	0.00000000
##	[23,]	0.13166860	0	0.1252279	0.2497278	0.2516255	0.00000000	0.00000000
##	[24,]	0.12375882	0	0.00000000	0.00000000	0.00000000	0.07696386	0.00000000
##	[25,]	0.00000000	0	0.1208565	0.00000000	0.00000000	0.00000000	0.00000000
##	[26,]	0.13273353	0	0.00000000	0.2565820	0.1941023	0.07409199	0.00000000
##	[27,]	0.12869657	0	0.00000000	0.2312699	0.2420592	0.06852865	0.00000000
##	[28,]	0.00000000	0	0.1348795	0.2989795	0.2456010	0.08575011	0.16092731
##	[29,]	0.13479926	0	0.00000000	0.2803824	0.00000000	0.00000000	0.00000000
##	[30,]	0.13775993	0	0.1225175	0.00000000	0.00000000	0.06067279	0.00000000
##	[31,]	0.00000000	0	0.00000000	0.2699399	0.2348826	0.07021444	0.00000000
##	[32,]	0.00000000	0	0.00000000	0.00000000	0.1793102	0.06311274	0.00000000
##	[33,]	0.00000000	0	0.00000000	0.00000000	0.2507844	0.00000000	0.07579136
##	[34,]	0.00000000	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[35,]	0.00000000	0	0.00000000	0.3034214	0.2261918	0.07154375	0.12193700

```

## [36,] 0.13215097 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [37,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.14181192 0 0.0000000 0.0000000 0.1586727 0.0000000 0.0000000
## [40,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [41,] 0.12813349 0 0.2225266 0.2694699 0.0000000 0.0000000 0.0000000
## [42,] 0.00000000 0 0.0000000 0.2393315 0.1425397 0.0000000 0.0000000
## [43,] 0.13817868 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.00000000 0 0.0000000 0.2435460 0.0000000 0.0000000 0.0000000
## [46,] 0.00000000 0 0.0000000 0.1215118 0.0000000 0.0000000 0.06255914
## [47,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.00000000 0 0.2337978 0.0000000 0.0000000 0.0000000 0.0000000
## [50,] 0.00000000 0 0.0000000 0.0000000 0.2556465 0.07425199 0.0000000
## [51,] 0.00000000 0 0.0000000 0.0000000 0.2392792 0.17286423 0.0000000
## [52,] 0.25121225 0 0.2129338 0.3010402 0.2181212 0.0000000 0.0000000
## [53,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.12105448 0 0.1395253 0.4002307 0.2636516 0.17140815 0.0000000
## [55,] 0.00000000 0 0.1322395 0.0000000 0.0000000 0.0000000 0.0000000
## [56,] 0.12315245 0 0.0000000 0.0000000 0.1334683 0.0000000 0.0000000
## [57,] 0.16057640 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [58,] 0.16091873 0 0.1125289 0.0000000 0.1724473 0.06640294 0.08743158
## [59,] 0.00000000 0 0.0000000 0.0000000 0.1759790 0.08026101 0.0000000
## [60,] 0.00000000 0 0.0000000 0.3476741 0.0000000 0.0000000 0.0000000
## [61,] 0.00000000 0 0.0000000 0.1794235 0.0000000 0.0000000 0.17699839
## [62,] 0.00000000 0 0.0000000 0.2967480 0.0000000 0.0000000 0.0000000
## [63,] 0.00000000 0 0.0000000 0.0000000 0.1601935 0.0000000 0.0000000
## [64,] 0.00000000 0 0.0000000 0.1145841 0.0000000 0.0000000 0.07997354
## [65,] 0.24167746 0 0.2133662 0.2507656 0.1925926 0.07231458 0.0000000
## [66,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.00000000 0 0.0000000 0.1514708 0.0000000 0.0000000 0.0000000
## [71,] 0.00000000 0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
##      [,8]      [,9]      [,10]      [,11]      [,12]      [,13]
## [1,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [2,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [3,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [4,] 0.00000000 0.00000000 0.00000000 0.0000000 0.3324631 0.21535522
## [5,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [6,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [7,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [8,] 0.00000000 0.00000000 0.00000000 0.0000000 0.1944028 0.0000000
## [9,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [10,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [11,] 0.00000000 0.00000000 0.00000000 0.0000000 0.2907928 0.0000000
## [12,] 0.19440278 0.00000000 0.00000000 0.2907928 0.0000000 0.20564999
## [13,] 0.00000000 0.00000000 0.00000000 0.0000000 0.2056500 0.0000000
## [14,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [15,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [16,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000
## [17,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000

```

```

## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [19,] 0.00000000 0.06203854 0.00000000 0.00000000 0.3745620 0.23935747
## [20,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.18569721
## [21,] 0.00000000 0.05908976 0.00000000 0.2651802 0.00000000 0.21427831
## [22,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [23,] 0.21895938 0.00000000 0.00000000 0.2619073 0.00000000 0.23013189
## [24,] 0.24397096 0.00000000 0.07533318 0.2404372 0.3913302 0.17985022
## [25,] 0.00000000 0.06619273 0.00000000 0.00000000 0.2560951 0.00000000
## [26,] 0.23628082 0.06151492 0.00000000 0.2463645 0.2772040 0.19067637
## [27,] 0.00000000 0.06360688 0.06452765 0.2842510 0.3138769 0.19940027
## [28,] 0.00000000 0.00000000 0.00000000 0.00000000 0.2942197 0.20813214
## [29,] 0.00000000 0.08359913 0.00000000 0.00000000 0.2727672 0.00000000
## [30,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [31,] 0.00000000 0.00000000 0.16700575 0.00000000 0.2975816 0.20735569
## [32,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [33,] 0.00000000 0.00000000 0.17989691 0.00000000 0.00000000 0.21061328
## [34,] 0.00000000 0.00000000 0.00000000 0.00000000 0.2402547 0.00000000
## [35,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [36,] 0.14568911 0.00000000 0.00000000 0.00000000 0.3188122 0.24981180
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.26260299
## [39,] 0.00000000 0.00000000 0.00000000 0.2244976 0.3014104 0.18740372
## [40,] 0.00000000 0.00000000 0.00000000 0.2830786 0.00000000 0.00000000
## [41,] 0.26827309 0.00000000 0.00000000 0.2645079 0.3608283 0.18733341
## [42,] 0.00000000 0.08323611 0.00000000 0.2863414 0.2163347 0.19184524
## [43,] 0.22367533 0.16400234 0.00000000 0.2835919 0.00000000 0.20846849
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.00000000 0.2143490 0.00000000
## [46,] 0.00000000 0.00000000 0.00000000 0.1495946 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.04511153 0.05712071 0.1863615 0.2387325 0.26915685
## [49,] 0.20123159 0.00000000 0.00000000 0.2674745 0.3402512 0.19184633
## [50,] 0.00000000 0.00000000 0.00000000 0.00000000 0.2054595 0.00000000
## [51,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.20398138
## [52,] 0.18383804 0.00000000 0.00000000 0.3049034 0.3193301 0.21640773
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000 0.00000000 0.2682795 0.3255115 0.17483092
## [55,] 0.00000000 0.00000000 0.06838448 0.00000000 0.00000000 0.21459709
## [56,] 0.00000000 0.00000000 0.00000000 0.2594103 0.2439686 0.17296267
## [57,] 0.06934581 0.07571323 0.00000000 0.1741290 0.2115494 0.19900056
## [58,] 0.00000000 0.00000000 0.00000000 0.3329743 0.2831686 0.25424105
## [59,] 0.00000000 0.00000000 0.00000000 0.1617276 0.00000000 0.00000000
## [60,] 0.23121546 0.06152540 0.06947698 0.3360141 0.2860173 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.1753555 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000 0.00000000 0.2725910 0.3345033 0.00000000
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.07950692 0.00000000 0.00000000 0.00000000 0.1400924 0.14713052
## [65,] 0.20498997 0.18339860 0.00000000 0.2554606 0.00000000 0.19454100
## [66,] 0.00000000 0.00000000 0.00000000 0.1666180 0.2083701 0.20798584
## [67,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.20634638
## [68,] 0.00000000 0.00000000 0.00000000 0.00000000 0.2016759 0.22546525
## [69,] 0.00000000 0.00000000 0.00000000 0.2334251 0.00000000 0.21467827
## [70,] 0.00000000 0.00000000 0.00000000 0.1300457 0.00000000 0.06159252
## [71,] 0.00000000 0.00000000 0.00000000 0.2286658 0.00000000 0.19907753

```

##		[,14]	[,15]	[,16]	[,17]	[,18]	[,19]	[,20]
##	[1,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.12573437	0.16167960
##	[2,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[3,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.12250707	0.00000000
##	[4,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.23030920	0.26140036
##	[5,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.24772559
##	[6,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.07760367	0.00000000
##	[7,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.08120453	0.00000000
##	[8,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[9,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.06203854	0.00000000
##	[10,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[11,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[12,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.37456203	0.00000000
##	[13,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.23935747	0.18569721
##	[14,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.08310562
##	[15,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.22192926	0.22233512
##	[16,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[17,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.08671314	0.00000000
##	[18,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[19,]	0.00000000	0.22192926	0.00000000	0.08671314	0	0.00000000	0.33911590
##	[20,]	0.08310562	0.22233512	0.00000000	0.00000000	0	0.33911590	0.00000000
##	[21,]	0.00000000	0.00000000	0.00000000	0.07570195	0	0.26396146	0.35857166
##	[22,]	0.00000000	0.23800190	0.11892782	0.07456136	0	0.18882349	0.22225764
##	[23,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.33707755
##	[24,]	0.00000000	0.00000000	0.00000000	0.07082584	0	0.33484121	0.28267507
##	[25,]	0.10871696	0.00000000	0.00000000	0.08811469	0	0.00000000	0.31818815
##	[26,]	0.00000000	0.21261886	0.07884585	0.07610758	0	0.34494515	0.25206343
##	[27,]	0.00000000	0.18177595	0.05634200	0.00000000	0	0.00000000	0.28404360
##	[28,]	0.10412386	0.21822511	0.07401283	0.08441302	0	0.25164084	0.00000000
##	[29,]	0.00000000	0.19287224	0.07607070	0.06086394	0	0.26565640	0.25065375
##	[30,]	0.17793620	0.00000000	0.00000000	0.05344739	0	0.19502059	0.20745070
##	[31,]	0.00000000	0.19705100	0.00000000	0.00000000	0	0.00000000	0.27692518
##	[32,]	0.15883462	0.15147027	0.09890053	0.00000000	0	0.17926075	0.00000000
##	[33,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[34,]	0.00000000	0.00000000	0.06223833	0.06762486	0	0.12549166	0.00000000
##	[35,]	0.16051289	0.23529503	0.00000000	0.00000000	0	0.26141176	0.25118711
##	[36,]	0.00000000	0.29992537	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[37,]	0.00000000	0.23033673	0.00000000	0.00000000	0	0.15197638	0.00000000
##	[38,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[39,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[40,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.24877751
##	[41,]	0.00000000	0.27540252	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[42,]	0.14874828	0.00000000	0.15301876	0.06963676	0	0.25176296	0.25498696
##	[43,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.34683311	0.26795184
##	[44,]	0.00000000	0.15954973	0.16094312	0.16656888	0	0.00000000	0.00000000
##	[45,]	0.00000000	0.00000000	0.00000000	0.14938574	0	0.16224296	0.00000000
##	[46,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.12374231	0.00000000
##	[47,]	0.00000000	0.29065230	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[48,]	0.17602603	0.00000000	0.17060664	0.13948892	0	0.00000000	0.00000000
##	[49,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[50,]	0.18022978	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[51,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[52,]	0.00000000	0.00000000	0.00000000	0.00000000	0	0.00000000	0.00000000
##	[53,]	0.00000000	0.00000000	0.10924995	0.00000000	0	0.06192418	0.00000000

```

## [54,] 0.00000000 0.30270099 0.00000000 0.00000000 0 0.00000000 0.00000000
## [55,] 0.00000000 0.00000000 0.16673905 0.00000000 0 0.00000000 0.20640043
## [56,] 0.00000000 0.20692534 0.00000000 0.00000000 0 0.00000000 0.27677500
## [57,] 0.00000000 0.00000000 0.00000000 0.00000000 0 0.00000000 0.00000000
## [58,] 0.00000000 0.00000000 0.00000000 0.00000000 0 0.00000000 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000 0.16044019 0.11622220 0 0.26679973 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0 0.00000000 0.00000000
## [62,] 0.00000000 0.29185241 0.00000000 0.00000000 0 0.00000000 0.00000000
## [63,] 0.15216820 0.21997659 0.00000000 0.00000000 0 0.00000000 0.00000000
## [64,] 0.00000000 0.00000000 0.16306803 0.05326613 0 0.14583986 0.00000000
## [65,] 0.00000000 0.23324393 0.00000000 0.00000000 0 0.00000000 0.00000000
## [66,] 0.00000000 0.00000000 0.07430982 0.07887296 0 0.00000000 0.00000000
## [67,] 0.00000000 0.00000000 0.05509045 0.06819989 0 0.00000000 0.00000000
## [68,] 0.07054463 0.00000000 0.07106883 0.05859589 0 0.00000000 0.20828504
## [69,] 0.16289721 0.00000000 0.00000000 0.09123529 0 0.00000000 0.00000000
## [70,] 0.00000000 0.05664476 0.00000000 0.00000000 0 0.13720237 0.00000000
## [71,] 0.17812449 0.31462502 0.18999888 0.12328295 0 0.00000000 0.00000000
##      [,21]      [,22]      [,23]      [,24]      [,25]      [,26]
## [1,] 0.15259898 0.06648049 0.1316686 0.12375882 0.00000000 0.13273353
## [2,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.1252279 0.00000000 0.12085646 0.00000000
## [4,] 0.00000000 0.23912261 0.2497278 0.00000000 0.00000000 0.25658199
## [5,] 0.00000000 0.00000000 0.2516255 0.00000000 0.00000000 0.19410229
## [6,] 0.00000000 0.00000000 0.0000000 0.07696386 0.00000000 0.07409199
## [7,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.2189594 0.24397096 0.00000000 0.23628082
## [9,] 0.05908976 0.00000000 0.0000000 0.00000000 0.06619273 0.06151492
## [10,] 0.00000000 0.00000000 0.0000000 0.07533318 0.00000000 0.00000000
## [11,] 0.26518023 0.00000000 0.2619073 0.24043718 0.00000000 0.24636450
## [12,] 0.00000000 0.00000000 0.0000000 0.39133020 0.25609510 0.27720395
## [13,] 0.21427831 0.00000000 0.2301319 0.17985022 0.00000000 0.19067637
## [14,] 0.00000000 0.00000000 0.0000000 0.00000000 0.10871696 0.00000000
## [15,] 0.00000000 0.23800190 0.0000000 0.00000000 0.00000000 0.21261886
## [16,] 0.00000000 0.11892782 0.0000000 0.00000000 0.00000000 0.07884585
## [17,] 0.07570195 0.07456136 0.0000000 0.07082584 0.08811469 0.07610758
## [18,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [19,] 0.26396146 0.18882349 0.0000000 0.33484121 0.00000000 0.34494515
## [20,] 0.35857166 0.22225764 0.3370776 0.28267507 0.31818815 0.25206343
## [21,] 0.00000000 0.00000000 0.0000000 0.24512513 0.00000000 0.26602083
## [22,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.18027537
## [23,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [24,] 0.24512513 0.00000000 0.0000000 0.00000000 0.00000000 0.35055203
## [25,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [26,] 0.26602083 0.18027537 0.0000000 0.35055203 0.00000000 0.00000000
## [27,] 0.26883877 0.00000000 0.3653660 0.33905659 0.00000000 0.39015192
## [28,] 0.00000000 0.19712094 0.0000000 0.27073243 0.20112219 0.23043166
## [29,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.29975323
## [30,] 0.00000000 0.14288519 0.0000000 0.21346338 0.17768679 0.19143974
## [31,] 0.28625263 0.19044495 0.0000000 0.30278609 0.00000000 0.28016116
## [32,] 0.00000000 0.12530747 0.0000000 0.00000000 0.00000000 0.11932470
## [33,] 0.26887368 0.20591123 0.2558310 0.27209273 0.20399285 0.26870400
## [34,] 0.00000000 0.05489162 0.0000000 0.00000000 0.00000000 0.14882523
## [35,] 0.00000000 0.00000000 0.0000000 0.00000000 0.19302011 0.26699410

```

```

## [36,] 0.00000000 0.00000000 0.00000000 0.28704115 0.00000000 0.29618951
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.27852476 0.00000000 0.30814149
## [39,] 0.00000000 0.20179686 0.00000000 0.00000000 0.00000000 0.34649959
## [40,] 0.27139858 0.00000000 0.00000000 0.26267856 0.00000000 0.37410833
## [41,] 0.27512144 0.23019065 0.3817306 0.30370703 0.00000000 0.35056880
## [42,] 0.00000000 0.00000000 0.00000000 0.25748852 0.00000000 0.32044764
## [43,] 0.25475312 0.00000000 0.00000000 0.34705013 0.00000000 0.39164883
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.00000000 0.13447845 0.00000000
## [46,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [47,] 0.00000000 0.12283012 0.2203407 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.00000000 0.19973542 0.00000000 0.00000000
## [49,] 0.27355339 0.17849339 0.00000000 0.00000000 0.00000000 0.34753295
## [50,] 0.00000000 0.00000000 0.00000000 0.00000000 0.18947834 0.00000000
## [51,] 0.00000000 0.20243610 0.00000000 0.00000000 0.00000000 0.00000000
## [52,] 0.20605392 0.00000000 0.2694200 0.20234903 0.00000000 0.18631304
## [53,] 0.00000000 0.00000000 0.00000000 0.07460099 0.00000000 0.00000000
## [54,] 0.00000000 0.19951719 0.00000000 0.00000000 0.00000000 0.26429623
## [55,] 0.21138409 0.14500939 0.2597016 0.21441004 0.00000000 0.22723166
## [56,] 0.30038655 0.20487752 0.3264652 0.36700082 0.00000000 0.32078924
## [57,] 0.20699099 0.00000000 0.00000000 0.29584612 0.00000000 0.00000000
## [58,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.31352367
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.32098219
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.12980352 0.00000000
## [64,] 0.00000000 0.14311339 0.00000000 0.12199683 0.00000000 0.00000000
## [65,] 0.00000000 0.19227462 0.00000000 0.27068691 0.00000000 0.29955415
## [66,] 0.21471450 0.13739461 0.2411814 0.23138119 0.00000000 0.25170805
## [67,] 0.00000000 0.00000000 0.00000000 0.31093337 0.00000000 0.00000000
## [68,] 0.19525568 0.12381374 0.00000000 0.00000000 0.00000000 0.25280860
## [69,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.27097900
## [70,] 0.15582834 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [71,] 0.00000000 0.11788858 0.00000000 0.00000000 0.00000000 0.00000000
##      [,27]      [,28]      [,29]      [,30]      [,31]      [,32]
## [1,] 0.12869657 0.00000000 0.13479926 0.13775993 0.00000000 0.00000000
## [2,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [3,] 0.00000000 0.13487945 0.00000000 0.12251750 0.00000000 0.00000000
## [4,] 0.23126995 0.29897946 0.28038244 0.00000000 0.26993993 0.00000000
## [5,] 0.24205923 0.24560104 0.00000000 0.00000000 0.23488256 0.17931025
## [6,] 0.06852865 0.08575011 0.00000000 0.06067279 0.07021444 0.06311274
## [7,] 0.00000000 0.16092731 0.00000000 0.00000000 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [9,] 0.06360688 0.00000000 0.08359913 0.00000000 0.00000000 0.00000000
## [10,] 0.06452765 0.00000000 0.00000000 0.00000000 0.16700575 0.00000000
## [11,] 0.28425098 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [12,] 0.31387686 0.29421968 0.27276718 0.00000000 0.29758158 0.00000000
## [13,] 0.19940027 0.20813214 0.00000000 0.00000000 0.20735569 0.00000000
## [14,] 0.00000000 0.10412386 0.00000000 0.17793620 0.00000000 0.15883462
## [15,] 0.18177595 0.21822511 0.19287224 0.00000000 0.19705100 0.15147027
## [16,] 0.05634200 0.07401283 0.07607070 0.00000000 0.00000000 0.09890053
## [17,] 0.00000000 0.08441302 0.06086394 0.05344739 0.00000000 0.00000000

```

```

## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [19,] 0.00000000 0.25164084 0.26565640 0.19502059 0.00000000 0.17926075
## [20,] 0.28404360 0.00000000 0.25065375 0.20745070 0.27692518 0.00000000
## [21,] 0.26883877 0.00000000 0.00000000 0.00000000 0.28625263 0.00000000
## [22,] 0.00000000 0.19712094 0.00000000 0.14288519 0.19044495 0.12530747
## [23,] 0.36536605 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [24,] 0.33905659 0.27073243 0.00000000 0.21346338 0.30278609 0.00000000
## [25,] 0.00000000 0.20112219 0.00000000 0.17768679 0.00000000 0.00000000
## [26,] 0.39015192 0.23043166 0.29975323 0.19143974 0.28016116 0.11932470
## [27,] 0.00000000 0.00000000 0.21646923 0.00000000 0.00000000 0.00000000
## [28,] 0.00000000 0.00000000 0.25733277 0.23264205 0.25970629 0.11868120
## [29,] 0.21646923 0.25733277 0.00000000 0.00000000 0.00000000 0.00000000
## [30,] 0.00000000 0.23264205 0.00000000 0.00000000 0.19243596 0.12441771
## [31,] 0.00000000 0.25970629 0.00000000 0.19243596 0.00000000 0.14930496
## [32,] 0.00000000 0.11868120 0.00000000 0.12441771 0.14930496 0.00000000
## [33,] 0.00000000 0.00000000 0.00000000 0.20124415 0.27270374 0.11892007
## [34,] 0.13390853 0.13470683 0.16239645 0.00000000 0.00000000 0.00000000
## [35,] 0.00000000 0.28112409 0.00000000 0.20705450 0.26344493 0.11200587
## [36,] 0.00000000 0.00000000 0.22582268 0.20717051 0.00000000 0.00000000
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [39,] 0.00000000 0.00000000 0.00000000 0.18867365 0.00000000 0.00000000
## [40,] 0.25719433 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [41,] 0.37393606 0.00000000 0.28344480 0.00000000 0.26917071 0.00000000
## [42,] 0.28675222 0.32108866 0.24751410 0.20943634 0.00000000 0.00000000
## [43,] 0.26979199 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.19527832 0.18944141 0.00000000 0.00000000 0.00000000
## [46,] 0.00000000 0.12576569 0.00000000 0.06206707 0.14499892 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.21430919 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.20568353 0.00000000 0.00000000 0.00000000
## [49,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [50,] 0.00000000 0.18679395 0.00000000 0.20005435 0.20370191 0.15913401
## [51,] 0.00000000 0.00000000 0.00000000 0.21460696 0.27415514 0.15110378
## [52,] 0.00000000 0.00000000 0.00000000 0.00000000 0.23355997 0.00000000
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [55,] 0.18864295 0.00000000 0.00000000 0.00000000 0.20998528 0.00000000
## [56,] 0.29192200 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [57,] 0.21777850 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [58,] 0.00000000 0.19550050 0.00000000 0.11582309 0.23145564 0.13743412
## [59,] 0.00000000 0.00000000 0.00000000 0.06623726 0.08605168 0.07885005
## [60,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [63,] 0.00000000 0.14553833 0.00000000 0.15008563 0.11986294 0.15132637
## [64,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [65,] 0.27894584 0.00000000 0.00000000 0.21166568 0.00000000 0.00000000
## [66,] 0.00000000 0.21045633 0.00000000 0.00000000 0.00000000 0.00000000
## [67,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [68,] 0.21582813 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [69,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [70,] 0.00000000 0.15362028 0.13704995 0.00000000 0.00000000 0.07989620
## [71,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000

```

##		[,33]	[,34]	[,35]	[,36]	[,37]	[,38]	[,39]
##	[1,]	0.00000000	0.00000000	0.00000000	0.1321510	0.00000000	0.00000000	0.1418119
##	[2,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[3,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[4,]	0.00000000	0.00000000	0.30342136	0.00000000	0.00000000	0.00000000	0.00000000
##	[5,]	0.25078439	0.00000000	0.22619184	0.00000000	0.00000000	0.00000000	0.1586727
##	[6,]	0.00000000	0.00000000	0.07154375	0.00000000	0.00000000	0.00000000	0.00000000
##	[7,]	0.07579136	0.00000000	0.12193700	0.00000000	0.00000000	0.00000000	0.00000000
##	[8,]	0.00000000	0.00000000	0.00000000	0.1456891	0.00000000	0.00000000	0.00000000
##	[9,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[10,]	0.17989691	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[11,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.2244976
##	[12,]	0.00000000	0.24025466	0.00000000	0.3188122	0.00000000	0.00000000	0.3014104
##	[13,]	0.21061328	0.00000000	0.00000000	0.2498118	0.00000000	0.2626030	0.1874037
##	[14,]	0.00000000	0.00000000	0.16051289	0.00000000	0.00000000	0.00000000	0.00000000
##	[15,]	0.00000000	0.00000000	0.23529503	0.2999254	0.2303367	0.00000000	0.00000000
##	[16,]	0.00000000	0.06223833	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[17,]	0.00000000	0.06762486	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[18,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[19,]	0.00000000	0.12549166	0.26141176	0.00000000	0.1519764	0.00000000	0.00000000
##	[20,]	0.00000000	0.00000000	0.25118711	0.00000000	0.00000000	0.00000000	0.00000000
##	[21,]	0.26887368	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[22,]	0.20591123	0.05489162	0.00000000	0.00000000	0.00000000	0.00000000	0.2017969
##	[23,]	0.25583098	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[24,]	0.27209273	0.00000000	0.00000000	0.2870412	0.00000000	0.2785248	0.00000000
##	[25,]	0.20399285	0.00000000	0.19302011	0.00000000	0.00000000	0.00000000	0.00000000
##	[26,]	0.26870400	0.14882523	0.26699410	0.2961895	0.00000000	0.3081415	0.3464996
##	[27,]	0.00000000	0.13390853	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[28,]	0.00000000	0.13470683	0.28112409	0.00000000	0.00000000	0.00000000	0.00000000
##	[29,]	0.00000000	0.16239645	0.00000000	0.2258227	0.00000000	0.00000000	0.00000000
##	[30,]	0.20124415	0.00000000	0.20705450	0.2071705	0.00000000	0.00000000	0.1886736
##	[31,]	0.27270374	0.00000000	0.26344493	0.00000000	0.00000000	0.00000000	0.00000000
##	[32,]	0.11892007	0.00000000	0.11200587	0.00000000	0.00000000	0.00000000	0.00000000
##	[33,]	0.00000000	0.11270785	0.25497622	0.00000000	0.00000000	0.1938486	0.00000000
##	[34,]	0.11270785	0.00000000	0.00000000	0.1552515	0.00000000	0.00000000	0.00000000
##	[35,]	0.25497622	0.00000000	0.00000000	0.00000000	0.00000000	0.1995579	0.00000000
##	[36,]	0.00000000	0.15525152	0.00000000	0.00000000	0.00000000	0.3089821	0.00000000
##	[37,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[38,]	0.19384858	0.00000000	0.19955789	0.3089821	0.00000000	0.00000000	0.00000000
##	[39,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[40,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.1863453	0.2466942
##	[41,]	0.26050301	0.00000000	0.00000000	0.2680101	0.00000000	0.2007677	0.2421237
##	[42,]	0.00000000	0.13617826	0.00000000	0.00000000	0.1361163	0.1848455	0.2820760
##	[43,]	0.00000000	0.00000000	0.00000000	0.2845093	0.00000000	0.00000000	0.00000000
##	[44,]	0.00000000	0.09447905	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[45,]	0.00000000	0.06324591	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[46,]	0.00000000	0.00000000	0.13295158	0.00000000	0.00000000	0.00000000	0.00000000
##	[47,]	0.00000000	0.00000000	0.00000000	0.2366593	0.1236305	0.00000000	0.00000000
##	[48,]	0.00000000	0.11978688	0.00000000	0.00000000	0.00000000	0.1926044	0.1820974
##	[49,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[50,]	0.00000000	0.00000000	0.20923124	0.00000000	0.1247794	0.00000000	0.00000000
##	[51,]	0.26683813	0.00000000	0.29348198	0.00000000	0.00000000	0.1984784	0.2795558
##	[52,]	0.00000000	0.00000000	0.00000000	0.2560284	0.00000000	0.2207700	0.2138816
##	[53,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000



```

## [54,] 0.29841266 0.00000000 0.00000000 0.2409466 0.0000000 0.0000000 0.0000000
## [55,] 0.00000000 0.00000000 0.00000000 0.2679165 0.0000000 0.1697128 0.1918526
## [56,] 0.00000000 0.11296682 0.00000000 0.0000000 0.0000000 0.2089242 0.2694668
## [57,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.1903378 0.2068755
## [58,] 0.20828703 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.06428429 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.00000000 0.13816321 0.28605575 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.00000000 0.00000000 0.00000000 0.0000000 0.1558801 0.0000000 0.0000000
## [63,] 0.11105135 0.00000000 0.15408459 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.00000000 0.07644361 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.00000000 0.00000000 0.00000000 0.2679845 0.0000000 0.2162447 0.2697151
## [66,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000 0.1985236
## [67,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.1782671 0.2291968
## [68,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000 0.1933338
## [70,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.00000000 0.00000000 0.00000000 0.0000000 0.0000000 0.0000000 0.2248657
##      [,40]      [,41]      [,42]      [,43]      [,44]      [,45]      [,46]
## [1,] 0.0000000 0.1281335 0.00000000 0.1381787 0.00000000 0.00000000 0.00000000
## [2,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [3,] 0.0000000 0.2225266 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [4,] 0.0000000 0.2694699 0.23933153 0.0000000 0.00000000 0.24354602 0.12151179
## [5,] 0.0000000 0.0000000 0.14253972 0.0000000 0.00000000 0.00000000 0.00000000
## [6,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [7,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.06255914
## [8,] 0.0000000 0.2682731 0.00000000 0.2236753 0.00000000 0.00000000 0.00000000
## [9,] 0.0000000 0.0000000 0.08323611 0.1640023 0.00000000 0.00000000 0.00000000
## [10,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [11,] 0.2830786 0.2645079 0.28634144 0.2835919 0.00000000 0.00000000 0.14959462
## [12,] 0.0000000 0.3608283 0.21633470 0.0000000 0.00000000 0.21434896 0.00000000
## [13,] 0.0000000 0.1873334 0.19184524 0.2084685 0.00000000 0.00000000 0.00000000
## [14,] 0.0000000 0.0000000 0.14874828 0.0000000 0.00000000 0.00000000 0.00000000
## [15,] 0.0000000 0.2754025 0.00000000 0.0000000 0.15954973 0.00000000 0.00000000
## [16,] 0.0000000 0.0000000 0.15301876 0.0000000 0.16094312 0.00000000 0.00000000
## [17,] 0.0000000 0.0000000 0.06963676 0.0000000 0.16656888 0.14938574 0.00000000
## [18,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [19,] 0.0000000 0.0000000 0.25176296 0.3468331 0.00000000 0.16224296 0.12374231
## [20,] 0.2487775 0.0000000 0.25498696 0.2679518 0.00000000 0.00000000 0.00000000
## [21,] 0.2713986 0.2751214 0.00000000 0.2547531 0.00000000 0.00000000 0.00000000
## [22,] 0.0000000 0.2301906 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [23,] 0.0000000 0.3817306 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [24,] 0.2626786 0.3037070 0.25748852 0.3470501 0.00000000 0.00000000 0.00000000
## [25,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.13447845 0.00000000
## [26,] 0.3741083 0.3505688 0.32044764 0.3916488 0.00000000 0.00000000 0.00000000
## [27,] 0.2571943 0.3739361 0.28675222 0.2697920 0.00000000 0.00000000 0.00000000
## [28,] 0.0000000 0.0000000 0.32108866 0.0000000 0.00000000 0.19527832 0.12576569
## [29,] 0.0000000 0.2834448 0.24751410 0.0000000 0.00000000 0.18944141 0.00000000
## [30,] 0.0000000 0.0000000 0.20943634 0.0000000 0.00000000 0.00000000 0.06206707
## [31,] 0.0000000 0.2691707 0.00000000 0.0000000 0.00000000 0.00000000 0.14499892
## [32,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [33,] 0.0000000 0.2605030 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [34,] 0.0000000 0.0000000 0.13617826 0.0000000 0.09447905 0.06324591 0.00000000
## [35,] 0.0000000 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.13295158

```

```

## [36,] 0.0000000 0.2680101 0.0000000 0.2845093 0.0000000 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0.13611625 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.1863453 0.2007677 0.18484554 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.2466942 0.2421237 0.28207601 0.0000000 0.0000000 0.0000000 0.0000000
## [40,] 0.0000000 0.2576515 0.27409383 0.2480531 0.0000000 0.0000000 0.0000000
## [41,] 0.2576515 0.0000000 0.25569156 0.3869001 0.0000000 0.20768021 0.0000000
## [42,] 0.2740938 0.2556916 0.0000000 0.0000000 0.0000000 0.20674455 0.0000000
## [43,] 0.2480531 0.3869001 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.2076802 0.20674455 0.0000000 0.0000000 0.0000000 0.13684810
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.13684810 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.22758418 0.2019213 0.0000000 0.15520532 0.06855507
## [49,] 0.3032108 0.3250175 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [50,] 0.0000000 0.2203916 0.25220524 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.2952223 0.2605976 0.0000000 0.2674389 0.0000000 0.0000000 0.0000000
## [52,] 0.2153503 0.2080891 0.22377746 0.0000000 0.0000000 0.0000000 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.2977132 0.2580434 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [55,] 0.2448697 0.2267179 0.0000000 0.2207207 0.0000000 0.0000000 0.0000000
## [56,] 0.2667291 0.3551959 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [57,] 0.2087313 0.2665721 0.0000000 0.2762205 0.0000000 0.0000000 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.22103385 0.11498839
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.17639444 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.07954936
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.2769129 0.2535497 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [66,] 0.1727782 0.2283927 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.2202915 0.0000000 0.0000000 0.2686793 0.0000000 0.0000000 0.0000000
## [68,] 0.2078676 0.2194388 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.1431975 0.0000000 0.0000000 0.0000000 0.0000000 0.12604544 0.0000000
## [71,] 0.2078916 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
##      [,47]      [,48]      [,49]      [,50]      [,51]      [,52]      [,53]
## [1,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.2512122 0.00000000
## [2,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000
## [3,] 0.0000000 0.00000000 0.2337978 0.00000000 0.00000000 0.2129338 0.00000000
## [4,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.3010402 0.00000000
## [5,] 0.0000000 0.00000000 0.0000000 0.25564653 0.23927922 0.2181212 0.00000000
## [6,] 0.0000000 0.00000000 0.0000000 0.07425199 0.17286423 0.0000000 0.00000000
## [7,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000
## [8,] 0.0000000 0.00000000 0.2012316 0.00000000 0.00000000 0.1838380 0.00000000
## [9,] 0.0000000 0.04511153 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000
## [10,] 0.0000000 0.05712071 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000
## [11,] 0.0000000 0.18636153 0.2674745 0.00000000 0.00000000 0.3049034 0.00000000
## [12,] 0.0000000 0.23873250 0.3402512 0.20545953 0.00000000 0.3193301 0.00000000
## [13,] 0.0000000 0.26915685 0.1918463 0.00000000 0.20398138 0.2164077 0.00000000
## [14,] 0.0000000 0.17602603 0.0000000 0.18022978 0.00000000 0.0000000 0.00000000
## [15,] 0.2906523 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000
## [16,] 0.0000000 0.17060664 0.0000000 0.00000000 0.00000000 0.0000000 0.10924995
## [17,] 0.0000000 0.13948892 0.0000000 0.00000000 0.00000000 0.0000000 0.00000000

```

```

## [18,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [19,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.06192418
## [20,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [21,] 0.0000000 0.00000000 0.2735534 0.00000000 0.00000000 0.2060539 0.0000000 0.00000000
## [22,] 0.1228301 0.00000000 0.1784934 0.00000000 0.20243610 0.0000000 0.0000000 0.00000000
## [23,] 0.2203407 0.00000000 0.0000000 0.00000000 0.00000000 0.2694200 0.0000000 0.00000000
## [24,] 0.0000000 0.19973542 0.0000000 0.00000000 0.00000000 0.2023490 0.07460099 0.00000000
## [25,] 0.0000000 0.00000000 0.0000000 0.18947834 0.00000000 0.0000000 0.0000000 0.00000000
## [26,] 0.0000000 0.00000000 0.3475329 0.00000000 0.00000000 0.1863130 0.0000000 0.00000000
## [27,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [28,] 0.0000000 0.00000000 0.0000000 0.18679395 0.00000000 0.0000000 0.0000000 0.00000000
## [29,] 0.0000000 0.20568353 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [30,] 0.2143092 0.00000000 0.0000000 0.20005435 0.21460696 0.0000000 0.0000000 0.00000000
## [31,] 0.0000000 0.00000000 0.0000000 0.20370191 0.27415514 0.2335600 0.0000000 0.00000000
## [32,] 0.0000000 0.00000000 0.0000000 0.15913401 0.15110378 0.0000000 0.0000000 0.00000000
## [33,] 0.0000000 0.00000000 0.0000000 0.00000000 0.26683813 0.0000000 0.0000000 0.00000000
## [34,] 0.0000000 0.11978688 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [35,] 0.0000000 0.00000000 0.0000000 0.20923124 0.29348198 0.0000000 0.0000000 0.00000000
## [36,] 0.2366593 0.00000000 0.0000000 0.00000000 0.00000000 0.2560284 0.0000000 0.00000000
## [37,] 0.1236305 0.00000000 0.0000000 0.12477938 0.00000000 0.0000000 0.0000000 0.00000000
## [38,] 0.0000000 0.19260444 0.0000000 0.00000000 0.19847841 0.2207700 0.0000000 0.00000000
## [39,] 0.0000000 0.18209736 0.0000000 0.00000000 0.27955580 0.2138816 0.0000000 0.00000000
## [40,] 0.0000000 0.00000000 0.3032108 0.00000000 0.29522230 0.2153503 0.0000000 0.00000000
## [41,] 0.0000000 0.00000000 0.3250175 0.22039156 0.26059765 0.2080891 0.0000000 0.00000000
## [42,] 0.0000000 0.22758418 0.0000000 0.25220524 0.00000000 0.2237775 0.0000000 0.00000000
## [43,] 0.0000000 0.20192127 0.0000000 0.00000000 0.26743888 0.0000000 0.0000000 0.00000000
## [44,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [45,] 0.0000000 0.15520532 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [46,] 0.0000000 0.06855507 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [47,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [48,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [49,] 0.0000000 0.00000000 0.0000000 0.00000000 0.28025863 0.2401043 0.0000000 0.00000000
## [50,] 0.0000000 0.00000000 0.0000000 0.00000000 0.21808220 0.0000000 0.0000000 0.00000000
## [51,] 0.0000000 0.00000000 0.2802586 0.21808220 0.00000000 0.1919412 0.0000000 0.00000000
## [52,] 0.0000000 0.00000000 0.2401043 0.00000000 0.19194121 0.0000000 0.0000000 0.00000000
## [53,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [54,] 0.0000000 0.00000000 0.0000000 0.00000000 0.29771417 0.2239229 0.0000000 0.00000000
## [55,] 0.0000000 0.00000000 0.2676748 0.00000000 0.00000000 0.2337473 0.0000000 0.00000000
## [56,] 0.0000000 0.00000000 0.0000000 0.00000000 0.27200591 0.2880492 0.0000000 0.00000000
## [57,] 0.0000000 0.00000000 0.0000000 0.00000000 0.19942780 0.3012204 0.0000000 0.00000000
## [58,] 0.0000000 0.00000000 0.0000000 0.00000000 0.20111553 0.0000000 0.0000000 0.00000000
## [59,] 0.0000000 0.00000000 0.0000000 0.00000000 0.07932722 0.0000000 0.0000000 0.00000000
## [60,] 0.0000000 0.00000000 0.0000000 0.00000000 0.27109893 0.0000000 0.0000000 0.00000000
## [61,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [62,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [63,] 0.0000000 0.00000000 0.0000000 0.13356410 0.00000000 0.0000000 0.0000000 0.00000000
## [64,] 0.0000000 0.06822298 0.0000000 0.00000000 0.00000000 0.0000000 0.07259539 0.00000000
## [65,] 0.0000000 0.00000000 0.3239978 0.00000000 0.00000000 0.2157647 0.0000000 0.00000000
## [66,] 0.0000000 0.00000000 0.2493156 0.21816395 0.00000000 0.2214845 0.0000000 0.00000000
## [67,] 0.0000000 0.00000000 0.2493226 0.00000000 0.00000000 0.2880359 0.0000000 0.00000000
## [68,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [69,] 0.0000000 0.00000000 0.2431483 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [70,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.0000000 0.0000000 0.00000000
## [71,] 0.0000000 0.00000000 0.2539072 0.00000000 0.00000000 0.2567320 0.0000000 0.00000000

```

##		[,54]	[,55]	[,56]	[,57]	[,58]	[,59]
##	[1,]	0.1210545	0.00000000	0.1231525	0.16057640	0.16091873	0.00000000
##	[2,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[3,]	0.1395253	0.13223951	0.00000000	0.00000000	0.11252888	0.00000000
##	[4,]	0.4002307	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[5,]	0.2636516	0.00000000	0.1334683	0.00000000	0.17244728	0.17597900
##	[6,]	0.1714081	0.00000000	0.00000000	0.00000000	0.06640294	0.08026101
##	[7,]	0.00000000	0.00000000	0.00000000	0.00000000	0.08743158	0.00000000
##	[8,]	0.00000000	0.00000000	0.00000000	0.06934581	0.00000000	0.00000000
##	[9,]	0.00000000	0.00000000	0.00000000	0.07571323	0.00000000	0.00000000
##	[10,]	0.00000000	0.06838448	0.00000000	0.00000000	0.00000000	0.00000000
##	[11,]	0.2682795	0.00000000	0.2594103	0.17412899	0.33297427	0.16172764
##	[12,]	0.3255115	0.00000000	0.2439686	0.21154939	0.28316861	0.00000000
##	[13,]	0.1748309	0.21459709	0.1729627	0.19900056	0.25424105	0.00000000
##	[14,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[15,]	0.3027010	0.00000000	0.2069253	0.00000000	0.00000000	0.00000000
##	[16,]	0.00000000	0.16673905	0.00000000	0.00000000	0.00000000	0.00000000
##	[17,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[18,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[19,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[20,]	0.00000000	0.20640043	0.2767750	0.00000000	0.00000000	0.00000000
##	[21,]	0.00000000	0.21138409	0.3003865	0.20699099	0.00000000	0.00000000
##	[22,]	0.1995172	0.14500939	0.2048775	0.00000000	0.00000000	0.00000000
##	[23,]	0.00000000	0.25970158	0.3264652	0.00000000	0.00000000	0.00000000
##	[24,]	0.00000000	0.21441004	0.3670008	0.29584612	0.00000000	0.00000000
##	[25,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[26,]	0.2642962	0.22723166	0.3207892	0.00000000	0.00000000	0.00000000
##	[27,]	0.00000000	0.18864295	0.2919220	0.21777850	0.00000000	0.00000000
##	[28,]	0.00000000	0.00000000	0.00000000	0.00000000	0.19550050	0.00000000
##	[29,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[30,]	0.00000000	0.00000000	0.00000000	0.00000000	0.11582309	0.06623726
##	[31,]	0.00000000	0.20998528	0.00000000	0.00000000	0.23145564	0.08605168
##	[32,]	0.00000000	0.00000000	0.00000000	0.00000000	0.13743412	0.07885005
##	[33,]	0.2984127	0.00000000	0.00000000	0.00000000	0.20828703	0.06428429
##	[34,]	0.00000000	0.00000000	0.1129668	0.00000000	0.00000000	0.00000000
##	[35,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[36,]	0.2409466	0.26791649	0.00000000	0.00000000	0.00000000	0.00000000
##	[37,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[38,]	0.00000000	0.16971283	0.2089242	0.19033782	0.00000000	0.00000000
##	[39,]	0.00000000	0.19185263	0.2694668	0.20687545	0.00000000	0.00000000
##	[40,]	0.2977132	0.24486972	0.2667291	0.20873132	0.00000000	0.00000000
##	[41,]	0.2580434	0.22671793	0.3551959	0.26657210	0.00000000	0.00000000
##	[42,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[43,]	0.00000000	0.22072067	0.00000000	0.27622049	0.00000000	0.00000000
##	[44,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[45,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[46,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[47,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[48,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[49,]	0.00000000	0.26767484	0.00000000	0.00000000	0.00000000	0.00000000
##	[50,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
##	[51,]	0.2977142	0.00000000	0.2720059	0.19942780	0.20111553	0.07932722
##	[52,]	0.2239229	0.23374731	0.2880492	0.30122038	0.00000000	0.00000000
##	[53,]	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

```

## [54,] 0.0000000 0.21983662 0.3079278 0.00000000 0.24998280 0.00000000
## [55,] 0.2198366 0.00000000 0.1968623 0.20337904 0.00000000 0.00000000
## [56,] 0.3079278 0.19686228 0.0000000 0.18585005 0.00000000 0.00000000
## [57,] 0.0000000 0.20337904 0.1858500 0.00000000 0.00000000 0.00000000
## [58,] 0.2499828 0.00000000 0.0000000 0.00000000 0.00000000 0.07564266
## [59,] 0.0000000 0.00000000 0.0000000 0.00000000 0.07564266 0.00000000
## [60,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [61,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [62,] 0.0000000 0.00000000 0.2815476 0.24063773 0.00000000 0.00000000
## [63,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [64,] 0.0000000 0.00000000 0.1295986 0.00000000 0.00000000 0.00000000
## [65,] 0.2512387 0.19608092 0.2587524 0.22141173 0.20136970 0.00000000
## [66,] 0.2126731 0.22536280 0.1979221 0.17480593 0.00000000 0.00000000
## [67,] 0.2085352 0.19928247 0.1994375 0.21977907 0.00000000 0.00000000
## [68,] 0.2031909 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [69,] 0.2423658 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [70,] 0.0000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [71,] 0.0000000 0.20857342 0.2137646 0.23150338 0.00000000 0.00000000
##      [,60]      [,61]      [,62]      [,63]      [,64]      [,65]
## [1,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.24167746
## [2,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.21336617
## [4,] 0.34767414 0.17942345 0.2967480 0.00000000 0.11458410 0.25076559
## [5,] 0.00000000 0.00000000 0.0000000 0.16019349 0.00000000 0.19259259
## [6,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.07231458
## [7,] 0.00000000 0.17699839 0.0000000 0.00000000 0.07997354 0.00000000
## [8,] 0.23121546 0.00000000 0.0000000 0.00000000 0.07950692 0.20498997
## [9,] 0.06152540 0.00000000 0.0000000 0.00000000 0.00000000 0.18339860
## [10,] 0.06947698 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [11,] 0.33601407 0.17535554 0.2725910 0.00000000 0.00000000 0.25546056
## [12,] 0.28601728 0.00000000 0.3345033 0.00000000 0.14009238 0.00000000
## [13,] 0.00000000 0.00000000 0.0000000 0.00000000 0.14713052 0.19454100
## [14,] 0.00000000 0.00000000 0.0000000 0.15216820 0.00000000 0.00000000
## [15,] 0.00000000 0.00000000 0.2918524 0.21997659 0.00000000 0.23324393
## [16,] 0.16044019 0.00000000 0.0000000 0.00000000 0.16306803 0.00000000
## [17,] 0.11622220 0.00000000 0.0000000 0.00000000 0.05326613 0.00000000
## [18,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [19,] 0.26679973 0.00000000 0.0000000 0.00000000 0.14583986 0.00000000
## [20,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [21,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [22,] 0.00000000 0.00000000 0.0000000 0.00000000 0.14311339 0.19227462
## [23,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [24,] 0.00000000 0.00000000 0.0000000 0.00000000 0.12199683 0.27068691
## [25,] 0.00000000 0.00000000 0.0000000 0.12980352 0.00000000 0.00000000
## [26,] 0.31352367 0.00000000 0.3209822 0.00000000 0.00000000 0.29955415
## [27,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.27894584
## [28,] 0.00000000 0.00000000 0.0000000 0.14553833 0.00000000 0.00000000
## [29,] 0.00000000 0.00000000 0.0000000 0.00000000 0.00000000 0.00000000
## [30,] 0.00000000 0.00000000 0.0000000 0.15008563 0.00000000 0.21166568
## [31,] 0.00000000 0.00000000 0.0000000 0.11986294 0.00000000 0.00000000
## [32,] 0.00000000 0.00000000 0.0000000 0.15132637 0.00000000 0.00000000
## [33,] 0.00000000 0.00000000 0.0000000 0.11105135 0.00000000 0.00000000
## [34,] 0.13816321 0.00000000 0.0000000 0.00000000 0.07644361 0.00000000
## [35,] 0.28605575 0.00000000 0.0000000 0.15408459 0.00000000 0.00000000

```

```

## [36,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.26798448
## [37,] 0.00000000 0.00000000 0.1558801 0.00000000 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.21624468
## [39,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.26971507
## [40,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.27691291
## [41,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.25354970
## [42,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [43,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.22103385 0.00000000 0.1763944 0.00000000 0.00000000 0.00000000
## [46,] 0.11498839 0.00000000 0.00000000 0.07954936 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06822298 0.00000000
## [49,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.32399783
## [50,] 0.00000000 0.00000000 0.00000000 0.13356410 0.00000000 0.00000000
## [51,] 0.27109893 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [52,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.21576470
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.07259539 0.00000000
## [54,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.25123867
## [55,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.19608092
## [56,] 0.00000000 0.00000000 0.2815476 0.00000000 0.12959862 0.25875242
## [57,] 0.00000000 0.00000000 0.2406377 0.00000000 0.00000000 0.22141173
## [58,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.20136970
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [60,] 0.00000000 0.07558394 0.2455826 0.00000000 0.00000000 0.00000000
## [61,] 0.07558394 0.00000000 0.00000000 0.00000000 0.05284460 0.00000000
## [62,] 0.24558259 0.00000000 0.00000000 0.00000000 0.11987128 0.27014314
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.00000000 0.05284460 0.1198713 0.00000000 0.00000000 0.12846946
## [65,] 0.00000000 0.00000000 0.2701431 0.00000000 0.12846946 0.00000000
## [66,] 0.00000000 0.00000000 0.1955503 0.00000000 0.06278778 0.21121620
## [67,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [68,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.18213584
## [69,] 0.00000000 0.00000000 0.2063937 0.00000000 0.06208364 0.26365090
## [70,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [71,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.23940670
##      [,66]      [,67]      [,68]      [,69]      [,70]      [,71]
## [1,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [2,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [4,] 0.00000000 0.00000000 0.00000000 0.00000000 0.15147082 0.00000000
## [5,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [7,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [9,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [10,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [11,] 0.16661797 0.00000000 0.00000000 0.23342513 0.13004566 0.2286658
## [12,] 0.20837010 0.00000000 0.20167591 0.00000000 0.00000000 0.00000000
## [13,] 0.20798584 0.20634638 0.22546525 0.21467827 0.06159252 0.1990775
## [14,] 0.00000000 0.00000000 0.07054463 0.16289721 0.00000000 0.1781245
## [15,] 0.00000000 0.00000000 0.00000000 0.00000000 0.05664476 0.3146250
## [16,] 0.07430982 0.05509045 0.07106883 0.00000000 0.00000000 0.1899989
## [17,] 0.07887296 0.06819989 0.05859589 0.09123529 0.00000000 0.1232830

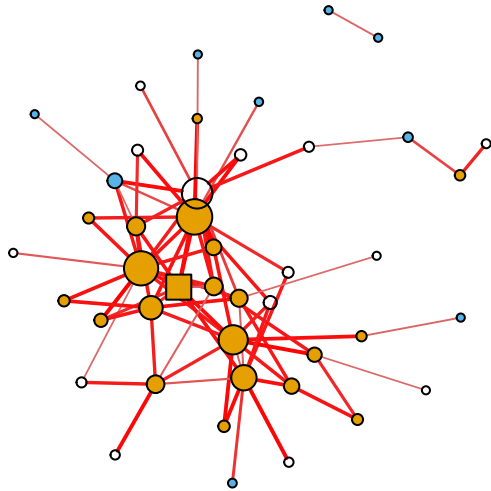
```

```

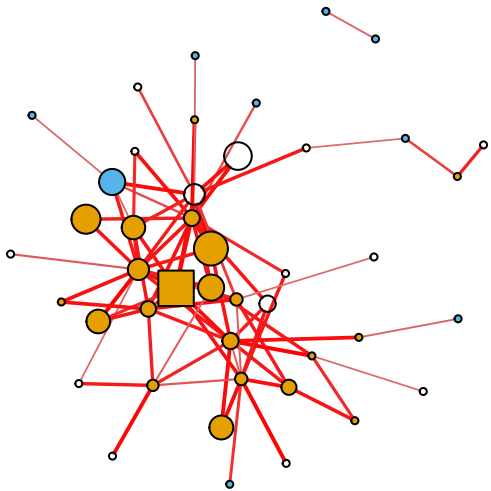
## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [19,] 0.00000000 0.00000000 0.00000000 0.00000000 0.13720237 0.00000000
## [20,] 0.00000000 0.00000000 0.20828504 0.00000000 0.00000000 0.00000000
## [21,] 0.21471450 0.00000000 0.19525568 0.00000000 0.15582834 0.00000000
## [22,] 0.13739461 0.00000000 0.12381374 0.00000000 0.00000000 0.1178886
## [23,] 0.24118140 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [24,] 0.23138119 0.31093337 0.00000000 0.00000000 0.00000000 0.00000000
## [25,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [26,] 0.25170805 0.00000000 0.25280860 0.27097900 0.00000000 0.00000000
## [27,] 0.00000000 0.00000000 0.21582813 0.00000000 0.00000000 0.00000000
## [28,] 0.21045633 0.00000000 0.00000000 0.00000000 0.15362028 0.00000000
## [29,] 0.00000000 0.00000000 0.00000000 0.00000000 0.13704995 0.00000000
## [30,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [31,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [32,] 0.00000000 0.00000000 0.00000000 0.00000000 0.07989620 0.00000000
## [33,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [34,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [35,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [36,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.00000000 0.17826710 0.00000000 0.00000000 0.00000000 0.00000000
## [39,] 0.19852356 0.22919682 0.00000000 0.19333383 0.00000000 0.2248657
## [40,] 0.17277817 0.22029148 0.20786757 0.00000000 0.14319747 0.2078916
## [41,] 0.22839266 0.00000000 0.21943881 0.00000000 0.00000000 0.00000000
## [42,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [43,] 0.00000000 0.26867933 0.00000000 0.00000000 0.00000000 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.00000000 0.12604544 0.00000000
## [46,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [49,] 0.24931560 0.24932260 0.00000000 0.24314831 0.00000000 0.2539072
## [50,] 0.21816395 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [51,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [52,] 0.22148451 0.28803595 0.00000000 0.00000000 0.00000000 0.2567320
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.21267310 0.20853516 0.20319086 0.24236581 0.00000000 0.00000000
## [55,] 0.22536280 0.19928247 0.00000000 0.00000000 0.00000000 0.2085734
## [56,] 0.19792208 0.19943753 0.00000000 0.00000000 0.00000000 0.2137646
## [57,] 0.17480593 0.21977907 0.00000000 0.00000000 0.00000000 0.2315034
## [58,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.19555029 0.00000000 0.00000000 0.20639374 0.00000000 0.00000000
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.06278778 0.00000000 0.00000000 0.06208364 0.00000000 0.00000000
## [65,] 0.21121620 0.00000000 0.18213584 0.26365090 0.00000000 0.2394067
## [66,] 0.00000000 0.19944464 0.21740764 0.17497097 0.05677648 0.3112679
## [67,] 0.19944464 0.00000000 0.22992089 0.23467487 0.07142390 0.2072626
## [68,] 0.21740764 0.22992089 0.00000000 0.21126661 0.00000000 0.2004702
## [69,] 0.17497097 0.23467487 0.21126661 0.00000000 0.07593079 0.2331284
## [70,] 0.05677648 0.07142390 0.00000000 0.07593079 0.00000000 0.00000000
## [71,] 0.31126788 0.20726261 0.20047016 0.23312840 0.00000000 0.00000000

```

```
motif<-vis.motif(motif.graphs,23L,c1,threshold=0.35, centrality.measure="strength", floor.size=3, ceil.size=10)
```



```
vis.motif(motif.graphs,23L,c1,threshold=0.35, centrality.measure="clusterrank", floor.size=3, ceil.size=10)
```



##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]
##	[1,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[2,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[3,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[4,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[5,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[6,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[7,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[8,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[9,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[10,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[11,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[12,]	0.0000000	0	0.0000000	0.2148729	0.0000000	0	0.0000000	0.2931079
##	[13,]	0.0000000	0	0.0000000	0.6420118	0.0000000	0	0.0000000	0.0000000
##	[14,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[15,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[16,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
##	[17,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000



## [18,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [19,]	0.2129731	0	0.2876897	0.2388709	0.0000000	0	0.3645320	0.0000000
## [20,]	0.2040983	0	0.0000000	0.3268670	0.2787897	0	0.0000000	0.0000000
## [21,]	0.2507189	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [22,]	0.2263784	0	0.0000000	0.2677635	0.0000000	0	0.0000000	0.0000000
## [23,]	0.2754902	0	0.2765047	0.2500831	0.2576806	0	0.0000000	0.3015141
## [24,]	0.2606336	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.2931773
## [25,]	0.0000000	0	0.2463219	0.0000000	0.0000000	0	0.0000000	0.0000000
## [26,]	0.2697105	0	0.0000000	0.2790634	0.3107997	0	0.0000000	0.2397824
## [27,]	0.2636164	0	0.0000000	0.2517669	0.2663610	0	0.0000000	0.0000000
## [28,]	0.0000000	0	0.2233704	0.2237017	0.2272011	0	0.2891383	0.0000000
## [29,]	0.2853987	0	0.0000000	0.2616144	0.0000000	0	0.0000000	0.0000000
## [30,]	0.2686896	0	0.2835024	0.0000000	0.0000000	0	0.0000000	0.0000000
## [31,]	0.0000000	0	0.0000000	0.2706927	0.2692213	0	0.0000000	0.0000000
## [32,]	0.0000000	0	0.0000000	0.0000000	0.2755148	0	0.0000000	0.0000000
## [33,]	0.0000000	0	0.0000000	0.0000000	0.3039759	0	0.2714968	0.0000000
## [34,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [35,]	0.0000000	0	0.0000000	0.3068458	0.2760634	0	0.2629923	0.0000000
## [36,]	0.2379978	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.2363356
## [37,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [38,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [39,]	0.2802355	0	0.0000000	0.0000000	0.2638542	0	0.0000000	0.0000000
## [40,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [41,]	0.2868947	0	0.1996567	0.2646154	0.0000000	0	0.0000000	0.2735708
## [42,]	0.0000000	0	0.0000000	0.2989410	0.3368762	0	0.0000000	0.0000000
## [43,]	0.3067786	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.2491681
## [44,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [45,]	0.0000000	0	0.0000000	0.3407425	0.0000000	0	0.0000000	0.0000000
## [46,]	0.0000000	0	0.0000000	0.2828862	0.0000000	0	0.2671928	0.0000000
## [47,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [48,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [49,]	0.0000000	0	0.2157023	0.0000000	0.0000000	0	0.0000000	0.2867298
## [50,]	0.0000000	0	0.0000000	0.0000000	0.2593378	0	0.0000000	0.0000000
## [51,]	0.0000000	0	0.0000000	0.0000000	0.2850470	0	0.0000000	0.0000000
## [52,]	0.7550616	0	0.7932439	0.7043703	0.5983366	0	0.0000000	0.3076889
## [53,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [54,]	0.2907828	0	0.2922186	0.2355202	0.2905207	0	0.0000000	0.0000000
## [55,]	0.0000000	0	0.2177907	0.0000000	0.0000000	0	0.0000000	0.0000000
## [56,]	0.7056048	0	0.0000000	0.0000000	0.2966966	0	0.0000000	0.0000000
## [57,]	0.7119377	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.7572950
## [58,]	0.2644977	0	0.2628659	0.0000000	0.2568755	0	0.2647882	0.0000000
## [59,]	0.0000000	0	0.0000000	0.0000000	0.2325896	0	0.0000000	0.0000000
## [60,]	0.0000000	0	0.0000000	0.2482563	0.0000000	0	0.0000000	0.3838628
## [61,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [62,]	0.0000000	0	0.0000000	0.2696742	0.0000000	0	0.0000000	0.0000000
## [63,]	0.0000000	0	0.0000000	0.0000000	0.2971960	0	0.0000000	0.0000000
## [64,]	0.2588397	0	0.2632793	0.2775114	0.0000000	0	0.2823409	0.2465659
## [65,]	0.7253423	0	0.2432470	0.2947296	0.2946479	0	0.0000000	0.2671801
## [66,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [67,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [68,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [69,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000
## [70,]	0.0000000	0	0.0000000	0.3041628	0.0000000	0	0.0000000	0.0000000
## [71,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0	0.0000000	0.0000000

##		[,9]	[,10]	[,11]	[,12]	[,13]	[,14]	[,15]
##	[1,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[3,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[4,]	0.0000000	0.0000000	0.0000000	0.2148729	0.6420118	0	0.0000000
##	[5,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[7,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[8,]	0.0000000	0.0000000	0.0000000	0.2931079	0.0000000	0	0.0000000
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[10,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[11,]	0.0000000	0.0000000	0.0000000	0.2798236	0.0000000	0	0.0000000
##	[12,]	0.0000000	0.0000000	0.2798236	0.0000000	0.7164684	0	0.0000000
##	[13,]	0.0000000	0.0000000	0.0000000	0.7164684	0.0000000	0	0.0000000
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[15,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[16,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[17,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[19,]	0.2787307	0.0000000	0.0000000	0.2290634	0.4889332	0	0.2846355
##	[20,]	0.0000000	0.0000000	0.0000000	0.0000000	0.7706202	0	0.2624984
##	[21,]	0.2232122	0.0000000	0.3094228	0.0000000	0.7275543	0	0.0000000
##	[22,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2927899
##	[23,]	0.0000000	0.0000000	0.2190967	0.0000000	0.7711133	0	0.0000000
##	[24,]	0.0000000	0.2446567	0.2761205	0.2211930	0.7747465	0	0.0000000
##	[25,]	0.2151566	0.0000000	0.0000000	0.2596364	0.0000000	0	0.0000000
##	[26,]	0.2831001	0.0000000	0.2498380	0.2918058	0.3280828	0	0.2673076
##	[27,]	0.2746599	0.2938518	0.2696949	0.2676423	0.7788964	0	0.2548903
##	[28,]	0.0000000	0.0000000	0.0000000	0.2271576	0.2848397	0	0.2581922
##	[29,]	0.2576613	0.0000000	0.0000000	0.2699734	0.0000000	0	0.2800280
##	[30,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[31,]	0.0000000	0.6636122	0.0000000	0.2623604	0.2748373	0	0.3103535
##	[32,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2477328
##	[33,]	0.0000000	0.5297471	0.0000000	0.0000000	0.2319216	0	0.0000000
##	[34,]	0.0000000	0.2106970	0.0000000	0.1964782	0.0000000	0	0.0000000
##	[35,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.2433264
##	[36,]	0.0000000	0.0000000	0.0000000	0.3096543	0.7495003	0	0.2618053
##	[37,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[38,]	0.0000000	0.0000000	0.0000000	0.0000000	0.7369373	0	0.0000000
##	[39,]	0.0000000	0.0000000	0.2916611	0.2595649	0.7889602	0	0.0000000
##	[40,]	0.0000000	0.0000000	0.2933544	0.0000000	0.0000000	0	0.0000000
##	[41,]	0.0000000	0.0000000	0.2341152	0.2957032	0.2900907	0	0.3102221
##	[42,]	0.2232498	0.0000000	0.2449776	0.2971515	0.3023452	0	0.0000000
##	[43,]	0.7121142	0.0000000	0.2366158	0.0000000	0.7306189	0	0.0000000
##	[44,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[45,]	0.3524116	0.0000000	0.0000000	0.2759162	0.0000000	0	0.0000000
##	[46,]	0.0000000	0.0000000	0.2910282	0.0000000	0.0000000	0	0.0000000
##	[47,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000
##	[48,]	0.2772048	0.2537265	0.3358295	0.2431940	0.3127221	0	0.0000000
##	[49,]	0.0000000	0.0000000	0.2513529	0.2417839	0.6904159	0	0.0000000
##	[50,]	0.0000000	0.0000000	0.0000000	0.3126828	0.0000000	0	0.0000000
##	[51,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2954138	0	0.0000000
##	[52,]	0.0000000	0.0000000	0.7710718	0.7105612	0.2320293	0	0.0000000
##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0	0.0000000

```

## [54,] 0.0000000 0.0000000 0.2209799 0.3240953 0.2357492      0 0.2982050
## [55,] 0.0000000 0.2410975 0.0000000 0.0000000 0.2556533      0 0.0000000
## [56,] 0.0000000 0.0000000 0.3191376 0.2627064 0.2087399      0 0.3564601
## [57,] 0.7996570 0.0000000 0.7808162 0.6883336 0.2525025      0 0.0000000
## [58,] 0.0000000 0.0000000 0.3145841 0.2726650 0.2708692      0 0.0000000
## [59,] 0.0000000 0.0000000 0.2838316 0.0000000 0.0000000      0 0.0000000
## [60,] 0.2579532 0.2893013 0.2060450 0.2644398 0.0000000      0 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.0000000
## [62,] 0.0000000 0.0000000 0.2951280 0.2824733 0.0000000      0 0.2938343
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0 0.3162466
## [64,] 0.2370921 0.2436984 0.0000000 0.2765835 0.4788004      0 0.0000000
## [65,] 0.6431273 0.0000000 0.3446558 0.0000000 0.2138905      0 0.3266989
## [66,] 0.0000000 0.0000000 0.2421562 0.2928193 0.2928521      0 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2529466      0 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.2403958 0.2061861      0 0.0000000
## [69,] 0.0000000 0.0000000 0.2107654 0.0000000 0.2272903      0 0.0000000
## [70,] 0.0000000 0.0000000 0.2884192 0.0000000 0.2675774      0 0.2342640
## [71,] 0.0000000 0.0000000 0.2360723 0.0000000 0.2352105      0 0.2193009
##      [,16]      [,17] [,18]      [,19]      [,20]      [,21]      [,22]
## [1,] 0.0000000 0.0000000      0 0.2129731 0.2040983 0.2507189 0.2263784
## [2,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000      0 0.2876897 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000 0.0000000      0 0.2388709 0.3268670 0.0000000 0.2677635
## [5,] 0.0000000 0.0000000      0 0.0000000 0.2787897 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000      0 0.3645320 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000      0 0.2787307 0.0000000 0.2232122 0.0000000
## [10,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.3094228 0.0000000
## [12,] 0.0000000 0.0000000      0 0.2290634 0.0000000 0.0000000 0.0000000
## [13,] 0.0000000 0.0000000      0 0.4889332 0.7706202 0.7275543 0.0000000
## [14,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.0000000 0.0000000      0 0.2846355 0.2624984 0.0000000 0.2927899
## [16,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.2798787
## [17,] 0.0000000 0.0000000      0 0.2549958 0.0000000 0.3604869 0.2580898
## [18,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.2549958      0 0.0000000 0.7749467 0.7069358 0.2706225
## [20,] 0.0000000 0.0000000      0 0.7749467 0.0000000 0.6915333 0.7109376
## [21,] 0.0000000 0.3604869      0 0.7069358 0.6915333 0.0000000 0.0000000
## [22,] 0.2798787 0.2580898      0 0.2706225 0.7109376 0.0000000 0.0000000
## [23,] 0.0000000 0.0000000      0 0.0000000 0.7511010 0.0000000 0.0000000
## [24,] 0.0000000 0.2570796      0 0.3077504 0.7744582 0.7436007 0.0000000
## [25,] 0.0000000 0.2490603      0 0.0000000 0.3753429 0.0000000 0.0000000
## [26,] 0.2489384 0.2608863      0 0.3558090 0.6746228 0.7033554 0.2434610
## [27,] 0.2738906 0.0000000      0 0.0000000 0.7879371 0.7091690 0.0000000
## [28,] 0.2479260 0.2645792      0 0.2243282 0.0000000 0.0000000 0.2146523
## [29,] 0.2604668 0.2923889      0 0.2129262 0.5418409 0.0000000 0.0000000
## [30,] 0.0000000 0.2583835      0 0.2469226 0.2737874 0.0000000 0.2645346
## [31,] 0.0000000 0.0000000      0 0.0000000 0.3298605 0.2989974 0.3046833
## [32,] 0.2792360 0.0000000      0 0.3439389 0.0000000 0.0000000 0.2399682
## [33,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.2614287 0.3507928
## [34,] 0.2080202 0.2386258      0 0.2281227 0.0000000 0.0000000 0.2335138
## [35,] 0.0000000 0.0000000      0 0.2980060 0.2672983 0.0000000 0.0000000

```

```

## [36,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2411181
## [40,] 0.0000000 0.0000000 0 0.0000000 0.2734115 0.7388326 0.0000000
## [41,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.8112522 0.2648409
## [42,] 0.2494607 0.2599339 0 0.2231298 0.2548321 0.0000000 0.0000000
## [43,] 0.0000000 0.0000000 0 0.2892654 0.7111883 0.6866410 0.0000000
## [44,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.2311945 0 0.2408011 0.0000000 0.0000000 0.0000000
## [46,] 0.0000000 0.0000000 0 0.3121606 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.2840790 0.3007818 0 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.7215505 0.2849799
## [50,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.3149367
## [52,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.3017503 0.0000000
## [53,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2642050
## [55,] 0.2285508 0.0000000 0 0.0000000 0.2285360 0.2640774 0.3004134
## [56,] 0.0000000 0.0000000 0 0.0000000 0.5724856 0.6864436 0.2927319
## [57,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.6915751 0.0000000
## [58,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.2344821 0.3066188 0 0.2892733 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.2347452 0.2564774 0 0.2671963 0.0000000 0.0000000 0.2769054
## [65,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2897183
## [66,] 0.2445862 0.2852759 0 0.0000000 0.0000000 0.2663763 0.2502995
## [67,] 0.7761051 0.6963458 0 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.2532088 0.2771126 0 0.0000000 0.2125957 0.2265216 0.2714763
## [69,] 0.0000000 0.2940236 0 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.2335718 0.0000000 0 0.2259233 0.0000000 0.4369412 0.0000000
## [71,] 0.2400572 0.2305253 0 0.0000000 0.0000000 0.0000000 0.3211189
##      [,23]      [,24]      [,25]      [,26]      [,27]      [,28]      [,29]
## [1,] 0.2754902 0.2606336 0.0000000 0.2697105 0.2636164 0.0000000 0.2853987
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.2765047 0.0000000 0.2463219 0.0000000 0.0000000 0.2233704 0.0000000
## [4,] 0.2500831 0.0000000 0.0000000 0.2790634 0.2517669 0.2237017 0.2616144
## [5,] 0.2576806 0.0000000 0.0000000 0.3107997 0.2663610 0.2272011 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2891383 0.0000000
## [8,] 0.3015141 0.2931773 0.0000000 0.2397824 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.2151566 0.2831001 0.2746599 0.0000000 0.2576613
## [10,] 0.0000000 0.2446567 0.0000000 0.0000000 0.2938518 0.0000000 0.0000000
## [11,] 0.2190967 0.2761205 0.0000000 0.2498380 0.2696949 0.0000000 0.0000000
## [12,] 0.0000000 0.2211930 0.2596364 0.2918058 0.2676423 0.2271576 0.2699734
## [13,] 0.7711133 0.7747465 0.0000000 0.3280828 0.7788964 0.2848397 0.0000000
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.0000000 0.0000000 0.0000000 0.2673076 0.2548903 0.2581922 0.2800280
## [16,] 0.0000000 0.0000000 0.0000000 0.2489384 0.2738906 0.2479260 0.2604668
## [17,] 0.0000000 0.2570796 0.2490603 0.2608863 0.0000000 0.2645792 0.2923889

```

```

## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.3077504 0.0000000 0.3558090 0.0000000 0.2243282 0.2129262
## [20,] 0.7511010 0.7744582 0.3753429 0.6746228 0.7879371 0.0000000 0.5418409
## [21,] 0.0000000 0.7436007 0.0000000 0.7033554 0.7091690 0.0000000 0.0000000
## [22,] 0.0000000 0.0000000 0.0000000 0.2434610 0.0000000 0.2146523 0.0000000
## [23,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2723841 0.0000000 0.0000000
## [24,] 0.0000000 0.0000000 0.0000000 0.7310710 0.3049710 0.3374200 0.0000000
## [25,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2943174 0.0000000
## [26,] 0.0000000 0.7310710 0.0000000 0.0000000 0.2141830 0.3165713 0.2867649
## [27,] 0.2723841 0.3049710 0.0000000 0.2141830 0.0000000 0.0000000 0.2299797
## [28,] 0.0000000 0.3374200 0.2943174 0.3165713 0.0000000 0.0000000 0.2692159
## [29,] 0.0000000 0.0000000 0.0000000 0.2867649 0.2299797 0.2692159 0.0000000
## [30,] 0.0000000 0.2619917 0.2620211 0.3080802 0.0000000 0.2986049 0.0000000
## [31,] 0.0000000 0.2866642 0.0000000 0.2375473 0.0000000 0.2620163 0.0000000
## [32,] 0.0000000 0.0000000 0.0000000 0.2659098 0.0000000 0.3296658 0.0000000
## [33,] 0.3114789 0.3267377 0.2428997 0.2590689 0.0000000 0.0000000 0.0000000
## [34,] 0.0000000 0.0000000 0.0000000 0.2676592 0.3030006 0.2224266 0.2450980
## [35,] 0.0000000 0.0000000 0.2230024 0.2491205 0.0000000 0.3846261 0.0000000
## [36,] 0.0000000 0.2006621 0.0000000 0.6328232 0.0000000 0.0000000 0.2468183
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.6326586 0.0000000 0.7186083 0.0000000 0.0000000 0.0000000
## [39,] 0.0000000 0.0000000 0.0000000 0.2062505 0.0000000 0.0000000 0.0000000
## [40,] 0.0000000 0.2685284 0.0000000 0.2156823 0.2958809 0.0000000 0.0000000
## [41,] 0.2830802 0.6341770 0.0000000 0.2600105 0.2578675 0.0000000 0.2428594
## [42,] 0.0000000 0.3414387 0.0000000 0.2303168 0.2105726 0.3224804 0.2745324
## [43,] 0.0000000 0.4516543 0.0000000 0.3023152 0.3119227 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.2993644 0.0000000 0.0000000 0.2674365 0.2332864
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2962336 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.2411400 0.0000000 0.0000000 0.0000000 0.0000000 0.2588988
## [49,] 0.0000000 0.0000000 0.0000000 0.2412656 0.0000000 0.0000000 0.0000000
## [50,] 0.0000000 0.0000000 0.2469697 0.0000000 0.0000000 0.2898324 0.0000000
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [52,] 0.3057676 0.7418562 0.0000000 0.2406125 0.0000000 0.0000000 0.0000000
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.0000000 0.0000000 0.2903954 0.0000000 0.0000000 0.0000000
## [55,] 0.2922093 0.2396841 0.0000000 0.2426082 0.1914572 0.0000000 0.0000000
## [56,] 0.2690917 0.2631226 0.0000000 0.2809497 0.2453507 0.0000000 0.0000000
## [57,] 0.0000000 0.7596015 0.0000000 0.0000000 0.7305585 0.0000000 0.0000000
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3258995 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.2855361 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.2241694 0.0000000 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.2491333 0.0000000 0.0000000 0.3475187 0.0000000
## [64,] 0.0000000 0.2852305 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [65,] 0.0000000 0.2682035 0.0000000 0.2131804 0.2751818 0.0000000 0.0000000
## [66,] 0.2457710 0.2418989 0.0000000 0.2748468 0.0000000 0.2437079 0.0000000
## [67,] 0.0000000 0.3302623 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.2483820 0.2691879 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.2557994 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3126328 0.3050696
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000

```

##		[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	[,36]
##	[1,]	0.2686896	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2379978
##	[2,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0.2835024	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[4,]	0.0000000	0.2706927	0.0000000	0.0000000	0.0000000	0.3068458	0.0000000
##	[5,]	0.0000000	0.2692213	0.2755148	0.3039759	0.0000000	0.2760634	0.0000000
##	[6,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[7,]	0.0000000	0.0000000	0.0000000	0.2714968	0.0000000	0.2629923	0.0000000
##	[8,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2363356
##	[9,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[10,]	0.0000000	0.6636122	0.0000000	0.5297471	0.2106970	0.0000000	0.0000000
##	[11,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[12,]	0.0000000	0.2623604	0.0000000	0.0000000	0.1964782	0.0000000	0.3096543
##	[13,]	0.0000000	0.2748373	0.0000000	0.2319216	0.0000000	0.0000000	0.7495003
##	[14,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0.0000000	0.3103535	0.2477328	0.0000000	0.0000000	0.2433264	0.2618053
##	[16,]	0.0000000	0.0000000	0.2792360	0.0000000	0.2080202	0.0000000	0.0000000
##	[17,]	0.2583835	0.0000000	0.0000000	0.0000000	0.2386258	0.0000000	0.0000000
##	[18,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[19,]	0.2469226	0.0000000	0.3439389	0.0000000	0.2281227	0.2980060	0.0000000
##	[20,]	0.2737874	0.3298605	0.0000000	0.0000000	0.0000000	0.2672983	0.0000000
##	[21,]	0.0000000	0.2989974	0.0000000	0.2614287	0.0000000	0.0000000	0.0000000
##	[22,]	0.2645346	0.3046833	0.2399682	0.3507928	0.2335138	0.0000000	0.0000000
##	[23,]	0.0000000	0.0000000	0.0000000	0.3114789	0.0000000	0.0000000	0.0000000
##	[24,]	0.2619917	0.2866642	0.0000000	0.3267377	0.0000000	0.0000000	0.2006621
##	[25,]	0.2620211	0.0000000	0.0000000	0.2428997	0.0000000	0.2230024	0.0000000
##	[26,]	0.3080802	0.2375473	0.2659098	0.2590689	0.2676592	0.2491205	0.6328232
##	[27,]	0.0000000	0.0000000	0.0000000	0.0000000	0.3030006	0.0000000	0.0000000
##	[28,]	0.2986049	0.2620163	0.3296658	0.0000000	0.2224266	0.3846261	0.0000000
##	[29,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2450980	0.0000000	0.2468183
##	[30,]	0.0000000	0.2609184	0.2174325	0.2490609	0.0000000	0.3262717	0.3072513
##	[31,]	0.2609184	0.0000000	0.2393724	0.2741683	0.0000000	0.3216828	0.0000000
##	[32,]	0.2174325	0.2393724	0.0000000	0.3345270	0.0000000	0.2230298	0.0000000
##	[33,]	0.2490609	0.2741683	0.3345270	0.0000000	0.2609564	0.2668818	0.0000000
##	[34,]	0.0000000	0.0000000	0.0000000	0.2609564	0.0000000	0.0000000	0.2994264
##	[35,]	0.3262717	0.3216828	0.2230298	0.2668818	0.0000000	0.0000000	0.0000000
##	[36,]	0.3072513	0.0000000	0.0000000	0.0000000	0.2994264	0.0000000	0.0000000
##	[37,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[38,]	0.0000000	0.0000000	0.0000000	0.2858400	0.0000000	0.3236016	0.2444629
##	[39,]	0.1927822	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[40,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[41,]	0.0000000	0.2437418	0.0000000	0.2585279	0.0000000	0.0000000	0.2292927
##	[42,]	0.2997981	0.0000000	0.0000000	0.0000000	0.2574903	0.0000000	0.0000000
##	[43,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2462599
##	[44,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[45,]	0.0000000	0.0000000	0.0000000	0.0000000	0.3085382	0.0000000	0.0000000
##	[46,]	0.2285254	0.2580419	0.0000000	0.0000000	0.2657323	0.2118490	0.0000000
##	[47,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[48,]	0.0000000	0.0000000	0.0000000	0.0000000	0.2130383	0.0000000	0.0000000
##	[49,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[50,]	0.2363762	0.2816166	0.2772673	0.0000000	0.0000000	0.2396760	0.0000000
##	[51,]	0.2843564	0.2902034	0.2827872	0.3108229	0.0000000	0.2619688	0.0000000
##	[52,]	0.0000000	0.2226264	0.0000000	0.0000000	0.0000000	0.0000000	0.2989345
##	[53,]	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

```

## [54,] 0.0000000 0.0000000 0.0000000 0.2962167 0.0000000 0.0000000 0.2553075
## [55,] 0.0000000 0.2430631 0.0000000 0.0000000 0.0000000 0.0000000 0.2605152
## [56,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2645005 0.0000000 0.0000000
## [57,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [58,] 0.2689950 0.2457321 0.2766541 0.3274686 0.0000000 0.0000000 0.0000000
## [59,] 0.2591048 0.2260752 0.3106525 0.2532955 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2537003 0.2762045 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [63,] 0.2268986 0.2830489 0.2591570 0.2049905 0.0000000 0.2052284 0.0000000
## [64,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2896118 0.0000000 0.0000000
## [65,] 0.2197253 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.2668616
## [66,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [67,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000 0.0000000 0.2735797 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
##      [,37]      [,38]      [,39]      [,40]      [,41]      [,42]      [,43] [,44]
## [1,]      0 0.0000000 0.2802355 0.0000000 0.2868947 0.0000000 0.3067786      0
## [2,]      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0
## [3,]      0 0.0000000 0.0000000 0.0000000 0.1996567 0.0000000 0.0000000      0
## [4,]      0 0.0000000 0.0000000 0.0000000 0.2646154 0.2989410 0.0000000      0
## [5,]      0 0.0000000 0.2638542 0.0000000 0.0000000 0.3368762 0.0000000      0
## [6,]      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0
## [7,]      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0
## [8,]      0 0.0000000 0.0000000 0.0000000 0.2735708 0.0000000 0.2491681      0
## [9,]      0 0.0000000 0.0000000 0.0000000 0.0000000 0.2232498 0.7121142      0
## [10,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0
## [11,]     0 0.0000000 0.2916611 0.2933544 0.2341152 0.2449776 0.2366158      0
## [12,]     0 0.0000000 0.2595649 0.0000000 0.2957032 0.2971515 0.0000000      0
## [13,]     0 0.7369373 0.7889602 0.0000000 0.2900907 0.3023452 0.7306189      0
## [14,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0
## [15,]     0 0.0000000 0.0000000 0.0000000 0.3102221 0.0000000 0.0000000      0
## [16,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.2494607 0.0000000      0
## [17,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.2599339 0.0000000      0
## [18,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0
## [19,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.2231298 0.2892654      0
## [20,]     0 0.0000000 0.0000000 0.2734115 0.0000000 0.2548321 0.7111883      0
## [21,]     0 0.0000000 0.0000000 0.7388326 0.8112522 0.0000000 0.6866410      0
## [22,]     0 0.0000000 0.2411181 0.0000000 0.2648409 0.0000000 0.0000000      0
## [23,]     0 0.0000000 0.0000000 0.0000000 0.2830802 0.0000000 0.0000000      0
## [24,]     0 0.6326586 0.0000000 0.2685284 0.6341770 0.3414387 0.4516543      0
## [25,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0
## [26,]     0 0.7186083 0.2062505 0.2156823 0.2600105 0.2303168 0.3023152      0
## [27,]     0 0.0000000 0.0000000 0.2958809 0.2578675 0.2105726 0.3119227      0
## [28,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.3224804 0.0000000      0
## [29,]     0 0.0000000 0.0000000 0.0000000 0.2428594 0.2745324 0.0000000      0
## [30,]     0 0.0000000 0.1927822 0.0000000 0.0000000 0.2997981 0.0000000      0
## [31,]     0 0.0000000 0.0000000 0.0000000 0.2437418 0.0000000 0.0000000      0
## [32,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0
## [33,]     0 0.2858400 0.0000000 0.0000000 0.2585279 0.0000000 0.0000000      0
## [34,]     0 0.0000000 0.0000000 0.0000000 0.0000000 0.2574903 0.0000000      0
## [35,]     0 0.3236016 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000      0

```

## [36,]	0	0.2444629	0.0000000	0.0000000	0.2292927	0.0000000	0.2462599	0
## [37,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [38,]	0	0.0000000	0.0000000	0.7417759	0.7192079	0.2271392	0.0000000	0
## [39,]	0	0.0000000	0.0000000	0.2787596	0.2905573	0.2826416	0.0000000	0
## [40,]	0	0.7417759	0.2787596	0.0000000	0.3126454	0.2044469	0.2488164	0
## [41,]	0	0.7192079	0.2905573	0.3126454	0.0000000	0.2528324	0.1995923	0
## [42,]	0	0.2271392	0.2826416	0.2044469	0.2528324	0.0000000	0.0000000	0
## [43,]	0	0.0000000	0.0000000	0.2488164	0.1995923	0.0000000	0.0000000	0
## [44,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [45,]	0	0.0000000	0.0000000	0.0000000	0.2570204	0.2490128	0.0000000	0
## [46,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [47,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [48,]	0	0.3008368	0.2192222	0.0000000	0.0000000	0.3065861	0.2864366	0
## [49,]	0	0.0000000	0.0000000	0.2297199	0.2640855	0.0000000	0.0000000	0
## [50,]	0	0.0000000	0.0000000	0.0000000	0.2433030	0.3198709	0.0000000	0
## [51,]	0	0.2639052	0.2497900	0.2825827	0.2631159	0.0000000	0.2909054	0
## [52,]	0	0.2191865	0.3233036	0.2851211	0.2644441	0.2169306	0.0000000	0
## [53,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [54,]	0	0.0000000	0.0000000	0.2460744	0.2444156	0.0000000	0.0000000	0
## [55,]	0	0.2667663	0.1811018	0.2529758	0.3162152	0.0000000	0.2282613	0
## [56,]	0	0.7419342	0.2570552	0.2373111	0.2597322	0.0000000	0.0000000	0
## [57,]	0	0.6928654	0.2559142	0.2116754	0.2650127	0.0000000	0.3025652	0
## [58,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [59,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [60,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [61,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [62,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [63,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [64,]	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0
## [65,]	0	0.2440781	0.2608274	0.2997515	0.2787949	0.0000000	0.0000000	0
## [66,]	0	0.0000000	0.2488253	0.2668149	0.2445107	0.0000000	0.0000000	0
## [67,]	0	0.6810926	0.2998754	0.2038200	0.0000000	0.0000000	0.4085837	0
## [68,]	0	0.0000000	0.0000000	0.2336265	0.2983328	0.0000000	0.0000000	0
## [69,]	0	0.0000000	0.2598104	0.0000000	0.0000000	0.0000000	0.0000000	0
## [70,]	0	0.0000000	0.0000000	0.3125751	0.0000000	0.0000000	0.0000000	0
## [71,]	0	0.0000000	0.2881758	0.3240633	0.0000000	0.0000000	0.0000000	0
##		[,45]	[,46]	[,47]	[,48]	[,49]	[,50]	[,51]
## [1,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	
## [2,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	
## [3,]	0.0000000	0.0000000	0	0.0000000	0.2157023	0.0000000	0.0000000	
## [4,]	0.3407425	0.2828862	0	0.0000000	0.0000000	0.0000000	0.0000000	
## [5,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.2593378	0.2850470	
## [6,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	
## [7,]	0.0000000	0.2671928	0	0.0000000	0.0000000	0.0000000	0.0000000	
## [8,]	0.0000000	0.0000000	0	0.0000000	0.2867298	0.0000000	0.0000000	
## [9,]	0.3524116	0.0000000	0	0.2772048	0.0000000	0.0000000	0.0000000	
## [10,]	0.0000000	0.0000000	0	0.2537265	0.0000000	0.0000000	0.0000000	
## [11,]	0.0000000	0.2910282	0	0.3358295	0.2513529	0.0000000	0.0000000	
## [12,]	0.2759162	0.0000000	0	0.2431940	0.2417839	0.3126828	0.0000000	
## [13,]	0.0000000	0.0000000	0	0.3127221	0.6904159	0.0000000	0.2954138	
## [14,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	
## [15,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	
## [16,]	0.0000000	0.0000000	0	0.2840790	0.0000000	0.0000000	0.0000000	
## [17,]	0.2311945	0.0000000	0	0.3007818	0.0000000	0.0000000	0.0000000	



## [18,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [19,]	0.2408011	0.3121606	0	0.0000000	0.0000000	0.0000000	0.0000000
## [20,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [21,]	0.0000000	0.0000000	0	0.0000000	0.7215505	0.0000000	0.0000000
## [22,]	0.0000000	0.0000000	0	0.0000000	0.2849799	0.0000000	0.3149367
## [23,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [24,]	0.0000000	0.0000000	0	0.2411400	0.0000000	0.0000000	0.0000000
## [25,]	0.2993644	0.0000000	0	0.0000000	0.0000000	0.2469697	0.0000000
## [26,]	0.0000000	0.0000000	0	0.0000000	0.2412656	0.0000000	0.0000000
## [27,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [28,]	0.2674365	0.2962336	0	0.0000000	0.0000000	0.2898324	0.0000000
## [29,]	0.2332864	0.0000000	0	0.2588988	0.0000000	0.0000000	0.0000000
## [30,]	0.0000000	0.2285254	0	0.0000000	0.0000000	0.2363762	0.2843564
## [31,]	0.0000000	0.2580419	0	0.0000000	0.0000000	0.2816166	0.2902034
## [32,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.2772673	0.2827872
## [33,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.3108229
## [34,]	0.3085382	0.2657323	0	0.2130383	0.0000000	0.0000000	0.0000000
## [35,]	0.0000000	0.2118490	0	0.0000000	0.0000000	0.2396760	0.2619688
## [36,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [37,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [38,]	0.0000000	0.0000000	0	0.3008368	0.0000000	0.0000000	0.2639052
## [39,]	0.0000000	0.0000000	0	0.2192222	0.0000000	0.0000000	0.2497900
## [40,]	0.0000000	0.0000000	0	0.0000000	0.2297199	0.0000000	0.2825827
## [41,]	0.2570204	0.0000000	0	0.0000000	0.2640855	0.2433030	0.2631159
## [42,]	0.2490128	0.0000000	0	0.3065861	0.0000000	0.3198709	0.0000000
## [43,]	0.0000000	0.0000000	0	0.2864366	0.0000000	0.0000000	0.2909054
## [44,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [45,]	0.0000000	0.2628866	0	0.2738224	0.0000000	0.0000000	0.0000000
## [46,]	0.2628866	0.0000000	0	0.3082094	0.0000000	0.0000000	0.0000000
## [47,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [48,]	0.2738224	0.3082094	0	0.0000000	0.0000000	0.0000000	0.0000000
## [49,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2787404
## [50,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2444228
## [51,]	0.0000000	0.0000000	0	0.0000000	0.2787404	0.2444228	0.0000000
## [52,]	0.0000000	0.0000000	0	0.0000000	0.2732774	0.0000000	0.2837740
## [53,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [54,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2771530
## [55,]	0.0000000	0.0000000	0	0.0000000	0.3049409	0.0000000	0.0000000
## [56,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.3039237
## [57,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.3152324
## [58,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2469365
## [59,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.2644171
## [60,]	0.3125429	0.2383297	0	0.0000000	0.0000000	0.0000000	0.2530191
## [61,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [62,]	0.2760568	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [63,]	0.0000000	0.3141156	0	0.0000000	0.0000000	0.2420356	0.0000000
## [64,]	0.0000000	0.0000000	0	0.2841623	0.0000000	0.0000000	0.0000000
## [65,]	0.0000000	0.0000000	0	0.0000000	0.2190669	0.0000000	0.0000000
## [66,]	0.0000000	0.0000000	0	0.0000000	0.3238280	0.2368442	0.0000000
## [67,]	0.0000000	0.0000000	0	0.0000000	0.2944330	0.0000000	0.0000000
## [68,]	0.0000000	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [69,]	0.0000000	0.0000000	0	0.0000000	0.2192877	0.0000000	0.0000000
## [70,]	0.2659239	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000
## [71,]	0.0000000	0.0000000	0	0.0000000	0.2519169	0.0000000	0.0000000

##		[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	[,58]
##	[1,]	0.7550616	0	0.2907828	0.0000000	0.7056048	0.7119377	0.2644977
##	[2,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[3,]	0.7932439	0	0.2922186	0.2177907	0.0000000	0.0000000	0.2628659
##	[4,]	0.7043703	0	0.2355202	0.0000000	0.0000000	0.0000000	0.0000000
##	[5,]	0.5983366	0	0.2905207	0.0000000	0.2966966	0.0000000	0.2568755
##	[6,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[7,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.2647882
##	[8,]	0.3076889	0	0.0000000	0.0000000	0.0000000	0.7572950	0.0000000
##	[9,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.7996570	0.0000000
##	[10,]	0.0000000	0	0.0000000	0.2410975	0.0000000	0.0000000	0.0000000
##	[11,]	0.7710718	0	0.2209799	0.0000000	0.3191376	0.7808162	0.3145841
##	[12,]	0.7105612	0	0.3240953	0.0000000	0.2627064	0.6883336	0.2726650
##	[13,]	0.2320293	0	0.2357492	0.2556533	0.2087399	0.2525025	0.2708692
##	[14,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[15,]	0.0000000	0	0.2982050	0.0000000	0.3564601	0.0000000	0.0000000
##	[16,]	0.0000000	0	0.0000000	0.2285508	0.0000000	0.0000000	0.0000000
##	[17,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[18,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[19,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[20,]	0.0000000	0	0.0000000	0.2285360	0.5724856	0.0000000	0.0000000
##	[21,]	0.3017503	0	0.0000000	0.2640774	0.6864436	0.6915751	0.0000000
##	[22,]	0.0000000	0	0.2642050	0.3004134	0.2927319	0.0000000	0.0000000
##	[23,]	0.3057676	0	0.0000000	0.2922093	0.2690917	0.0000000	0.0000000
##	[24,]	0.7418562	0	0.0000000	0.2396841	0.2631226	0.7596015	0.0000000
##	[25,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[26,]	0.2406125	0	0.2903954	0.2426082	0.2809497	0.0000000	0.0000000
##	[27,]	0.0000000	0	0.0000000	0.1914572	0.2453507	0.7305585	0.0000000
##	[28,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.3258995
##	[29,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[30,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.2689950
##	[31,]	0.2226264	0	0.0000000	0.2430631	0.0000000	0.0000000	0.2457321
##	[32,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.2766541
##	[33,]	0.0000000	0	0.2962167	0.0000000	0.0000000	0.0000000	0.3274686
##	[34,]	0.0000000	0	0.0000000	0.0000000	0.2645005	0.0000000	0.0000000
##	[35,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[36,]	0.2989345	0	0.2553075	0.2605152	0.0000000	0.0000000	0.0000000
##	[37,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[38,]	0.2191865	0	0.0000000	0.2667663	0.7419342	0.6928654	0.0000000
##	[39,]	0.3233036	0	0.0000000	0.1811018	0.2570552	0.2559142	0.0000000
##	[40,]	0.2851211	0	0.2460744	0.2529758	0.2373111	0.2116754	0.0000000
##	[41,]	0.2644441	0	0.2444156	0.3162152	0.2597322	0.2650127	0.0000000
##	[42,]	0.2169306	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[43,]	0.0000000	0	0.0000000	0.2282613	0.0000000	0.3025652	0.0000000
##	[44,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[45,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[46,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[47,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[48,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[49,]	0.2732774	0	0.0000000	0.3049409	0.0000000	0.0000000	0.0000000
##	[50,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
##	[51,]	0.2837740	0	0.2771530	0.0000000	0.3039237	0.3152324	0.2469365
##	[52,]	0.0000000	0	0.2404411	0.2757510	0.4062567	0.4008973	0.0000000
##	[53,]	0.0000000	0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

```

## [54,] 0.2404411      0 0.0000000 0.3153214 0.3147627 0.0000000 0.2951569
## [55,] 0.2757510      0 0.3153214 0.0000000 0.2346279 0.2195312 0.0000000
## [56,] 0.4062567      0 0.3147627 0.2346279 0.0000000 0.2425178 0.0000000
## [57,] 0.4008973      0 0.0000000 0.2195312 0.2425178 0.0000000 0.0000000
## [58,] 0.0000000      0 0.2951569 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.2452534
## [60,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000      0 0.0000000 0.0000000 0.2429773 0.2278380 0.0000000
## [63,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.0000000      0 0.0000000 0.0000000 0.2523378 0.0000000 0.0000000
## [65,] 0.2490096      0 0.2373410 0.2536031 0.2985504 0.2534041 0.2421656
## [66,] 0.1956542      0 0.3249950 0.3024359 0.2951505 0.2174984 0.0000000
## [67,] 0.4480877      0 0.3178078 0.2262681 0.2195476 0.6658227 0.0000000
## [68,] 0.0000000      0 0.2248463 0.0000000 0.0000000 0.0000000 0.0000000
## [69,] 0.0000000      0 0.3244233 0.0000000 0.0000000 0.0000000 0.0000000
## [70,] 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.2875909      0 0.0000000 0.2424765 0.2143687 0.2024147 0.0000000
##      [,59]      [,60] [,61]      [,62]      [,63]      [,64]      [,65]
## [1,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.2588397 0.7253423
## [2,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.2632793 0.2432470
## [4,] 0.0000000 0.2482563      0 0.2696742 0.0000000 0.2775114 0.2947296
## [5,] 0.2325896 0.0000000      0 0.0000000 0.2971960 0.0000000 0.2946479
## [6,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.2823409 0.0000000
## [8,] 0.0000000 0.3838628      0 0.0000000 0.0000000 0.2465659 0.2671801
## [9,] 0.0000000 0.2579532      0 0.0000000 0.0000000 0.2370921 0.6431273
## [10,] 0.0000000 0.2893013      0 0.0000000 0.0000000 0.2436984 0.0000000
## [11,] 0.2838316 0.2060450      0 0.2951280 0.0000000 0.0000000 0.3446558
## [12,] 0.0000000 0.2644398      0 0.2824733 0.0000000 0.2765835 0.0000000
## [13,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.4788004 0.2138905
## [14,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.0000000 0.0000000      0 0.2938343 0.3162466 0.0000000 0.3266989
## [16,] 0.0000000 0.2344821      0 0.0000000 0.0000000 0.2347452 0.0000000
## [17,] 0.0000000 0.3066188      0 0.0000000 0.0000000 0.2564774 0.0000000
## [18,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.2892733      0 0.0000000 0.0000000 0.2671963 0.0000000
## [20,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [21,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [22,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.2769054 0.2897183
## [23,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.2852305 0.2682035
## [25,] 0.0000000 0.0000000      0 0.0000000 0.2491333 0.0000000 0.0000000
## [26,] 0.0000000 0.2855361      0 0.2241694 0.0000000 0.0000000 0.2131804
## [27,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.2751818
## [28,] 0.0000000 0.0000000      0 0.0000000 0.3475187 0.0000000 0.0000000
## [29,] 0.0000000 0.0000000      0 0.0000000 0.0000000 0.0000000 0.0000000
## [30,] 0.2591048 0.0000000      0 0.0000000 0.2268986 0.0000000 0.2197253
## [31,] 0.2260752 0.0000000      0 0.0000000 0.2830489 0.0000000 0.0000000
## [32,] 0.3106525 0.0000000      0 0.0000000 0.2591570 0.0000000 0.0000000
## [33,] 0.2532955 0.0000000      0 0.0000000 0.2049905 0.0000000 0.0000000
## [34,] 0.0000000 0.2537003      0 0.0000000 0.0000000 0.2896118 0.0000000
## [35,] 0.0000000 0.2762045      0 0.0000000 0.2052284 0.0000000 0.0000000

```

```

## [36,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2668616
## [37,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2440781
## [39,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2608274
## [40,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2997515
## [41,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2787949
## [42,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [43,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.3125429 0 0.2760568 0.0000000 0.0000000 0.0000000
## [46,] 0.0000000 0.2383297 0 0.0000000 0.3141156 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.2841623 0.0000000
## [49,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2190669
## [50,] 0.0000000 0.0000000 0 0.0000000 0.2420356 0.0000000 0.0000000
## [51,] 0.2644171 0.2530191 0 0.0000000 0.0000000 0.0000000 0.0000000
## [52,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2490096
## [53,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2373410
## [55,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2536031
## [56,] 0.0000000 0.0000000 0 0.2429773 0.0000000 0.2523378 0.2985504
## [57,] 0.0000000 0.0000000 0 0.2278380 0.0000000 0.0000000 0.2534041
## [58,] 0.2452534 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2421656
## [59,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0 0.2445784 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.0000000 0.2445784 0 0.0000000 0.0000000 0.3057702 0.2281296
## [63,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.0000000 0.0000000 0 0.3057702 0.0000000 0.0000000 0.3167248
## [65,] 0.0000000 0.0000000 0 0.2281296 0.0000000 0.3167248 0.0000000
## [66,] 0.0000000 0.0000000 0 0.2946687 0.0000000 0.2224368 0.2642938
## [67,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [68,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2596401
## [69,] 0.0000000 0.0000000 0 0.2385372 0.0000000 0.2796319 0.2675373
## [70,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## [71,] 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.2591750
##      [,66]      [,67]      [,68]      [,69]      [,70]      [,71]
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [4,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3041628 0.0000000
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [11,] 0.2421562 0.0000000 0.0000000 0.2107654 0.2884192 0.2360723
## [12,] 0.2928193 0.0000000 0.2403958 0.0000000 0.0000000 0.0000000
## [13,] 0.2928521 0.2529466 0.2061861 0.2272903 0.2675774 0.2352105
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [15,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2342640 0.2193009
## [16,] 0.2445862 0.7761051 0.2532088 0.0000000 0.2335718 0.2400572
## [17,] 0.2852759 0.6963458 0.2771126 0.2940236 0.0000000 0.2305253

```

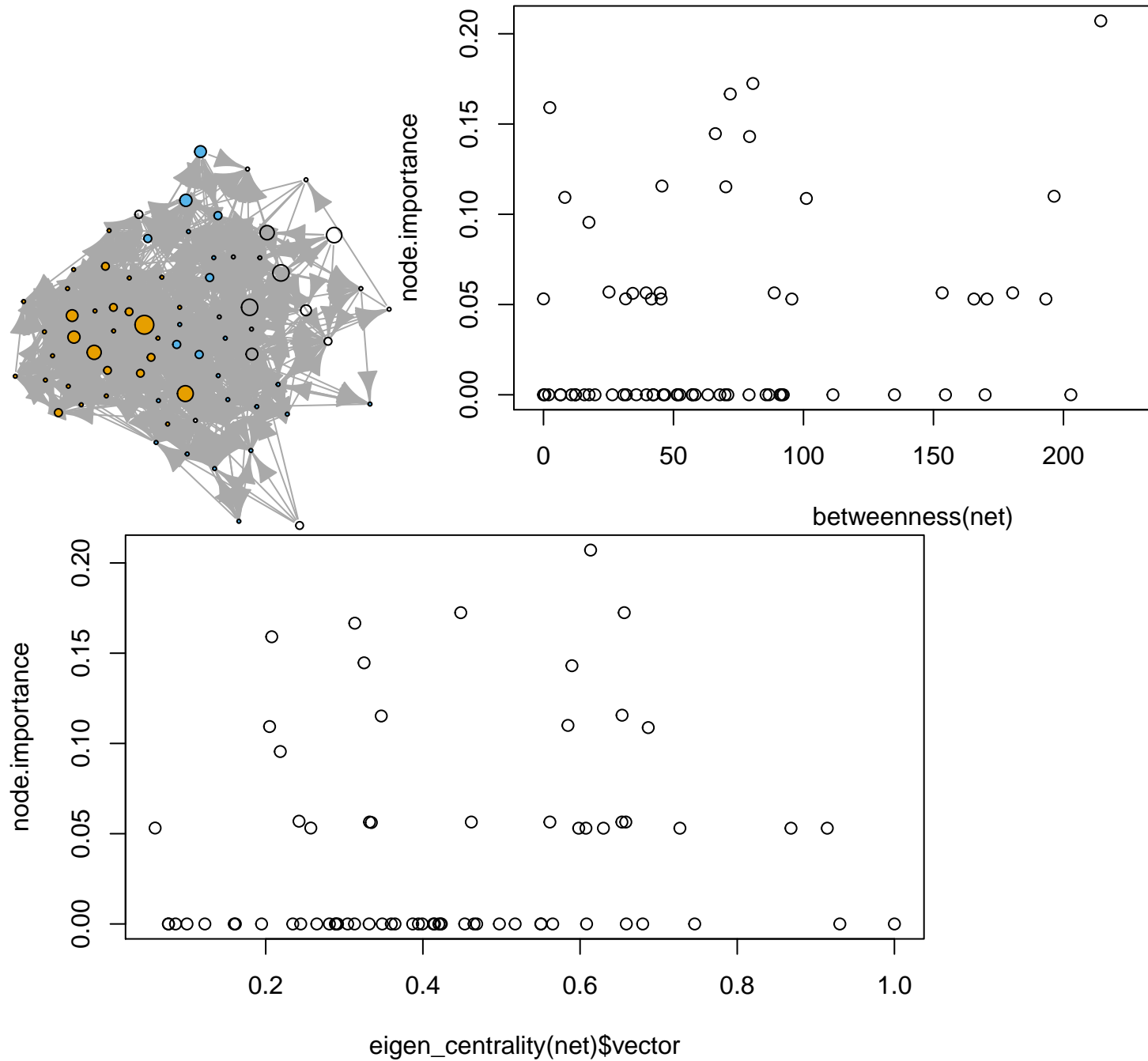
```

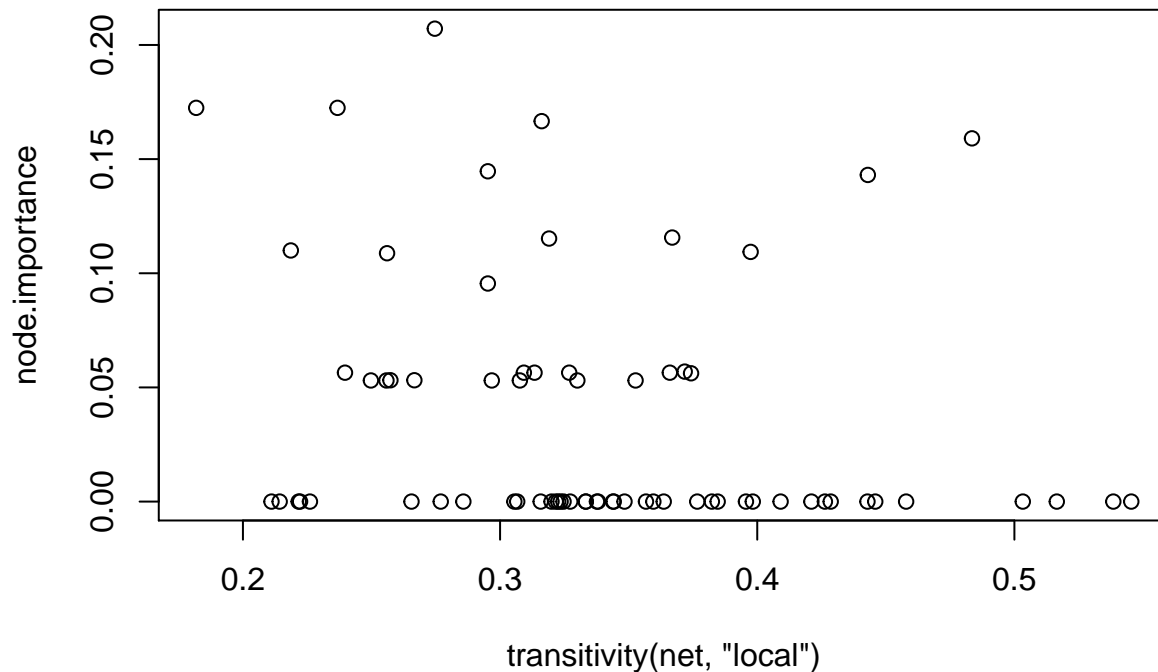
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [19,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2259233 0.0000000
## [20,] 0.0000000 0.0000000 0.2125957 0.0000000 0.0000000 0.0000000
## [21,] 0.2663763 0.0000000 0.2265216 0.0000000 0.4369412 0.0000000
## [22,] 0.2502995 0.0000000 0.2714763 0.0000000 0.0000000 0.3211189
## [23,] 0.2457710 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [24,] 0.2418989 0.3302623 0.0000000 0.0000000 0.0000000 0.0000000
## [25,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [26,] 0.2748468 0.0000000 0.2483820 0.2557994 0.0000000 0.0000000
## [27,] 0.0000000 0.0000000 0.2691879 0.0000000 0.0000000 0.0000000
## [28,] 0.2437079 0.0000000 0.0000000 0.0000000 0.3126328 0.0000000
## [29,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3050696 0.0000000
## [30,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [31,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [32,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2735797 0.0000000
## [33,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [34,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [35,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [36,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [37,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [38,] 0.0000000 0.6810926 0.0000000 0.0000000 0.0000000 0.0000000
## [39,] 0.2488253 0.2998754 0.0000000 0.2598104 0.0000000 0.2881758
## [40,] 0.2668149 0.2038200 0.2336265 0.0000000 0.3125751 0.3240633
## [41,] 0.2445107 0.0000000 0.2983328 0.0000000 0.0000000 0.0000000
## [42,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [43,] 0.0000000 0.4085837 0.0000000 0.0000000 0.0000000 0.0000000
## [44,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [45,] 0.0000000 0.0000000 0.0000000 0.0000000 0.2659239 0.0000000
## [46,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [47,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [48,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [49,] 0.3238280 0.2944330 0.0000000 0.2192877 0.0000000 0.2519169
## [50,] 0.2368442 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [51,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [52,] 0.1956542 0.4480877 0.0000000 0.0000000 0.0000000 0.2875909
## [53,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [54,] 0.3249950 0.3178078 0.2248463 0.3244233 0.0000000 0.0000000
## [55,] 0.3024359 0.2262681 0.0000000 0.0000000 0.0000000 0.2424765
## [56,] 0.2951505 0.2195476 0.0000000 0.0000000 0.0000000 0.2143687
## [57,] 0.2174984 0.6658227 0.0000000 0.0000000 0.0000000 0.2024147
## [58,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [59,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [60,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [61,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [62,] 0.2946687 0.0000000 0.0000000 0.2385372 0.0000000 0.0000000
## [63,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## [64,] 0.2224368 0.0000000 0.0000000 0.2796319 0.0000000 0.0000000
## [65,] 0.2642938 0.0000000 0.2596401 0.2675373 0.0000000 0.2591750
## [66,] 0.0000000 0.3320513 0.2467100 0.2657361 0.2974746 0.2448797
## [67,] 0.3320513 0.0000000 0.2816082 0.1800936 0.2877622 0.2114250
## [68,] 0.2467100 0.2816082 0.0000000 0.2662367 0.0000000 0.3032273
## [69,] 0.2657361 0.1800936 0.2662367 0.0000000 0.2207708 0.2596791
## [70,] 0.2974746 0.2877622 0.0000000 0.2207708 0.0000000 0.0000000
## [71,] 0.2448797 0.2114250 0.3032273 0.2596791 0.0000000 0.0000000

```

## Node importance measurements

```
# performance-based  
# change in cluster membership or decrease performance model  
cl<-extract.clusters(cluster.model)  
importance.performance<-plot.node.importance(cluster.model,importance.type = "performance", relate.clus
```





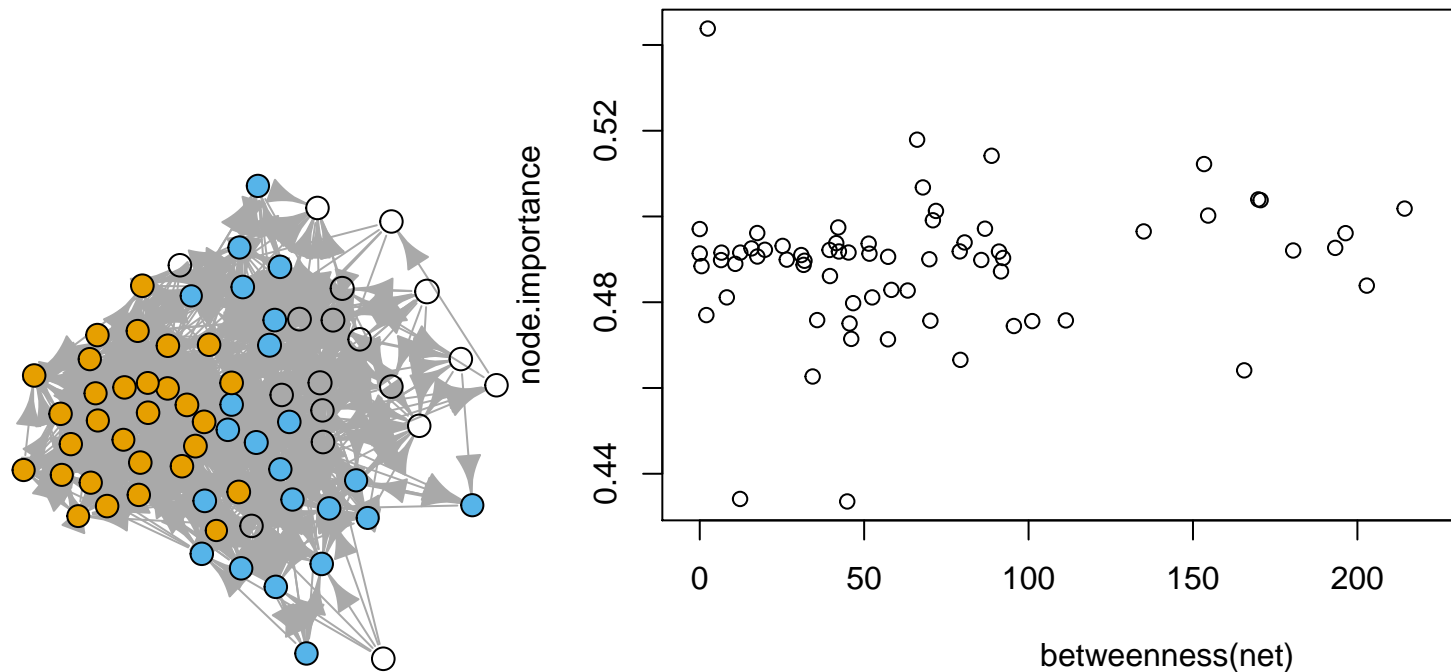
```
##
## Call:
## lm(formula = betweenness(net) ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -103.71  -46.58  -20.62   22.18  217.68
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    66.694     9.528   7.000 1.33e-09 ***
## node.importance 248.000    143.412   1.729  0.0882 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 66.53 on 69 degrees of freedom
## Multiple R-squared:  0.04154,    Adjusted R-squared:  0.02765
## F-statistic: 2.99 on 1 and 69 DF,  p-value: 0.08823
##
## Call:
## lm(formula = eigen_centrality(net)$vector ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.38112 -0.15490 -0.01049  0.14380  0.59031
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.40969     0.03088  13.265 <2e-16 ***
## node.importance 0.57720     0.46488   1.242  0.219
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2157 on 69 degrees of freedom
## Multiple R-squared:  0.02185,    Adjusted R-squared:  0.007678
## F-statistic: 1.542 on 1 and 69 DF,  p-value: 0.2186
##
##
## Call:
## lm(formula = transitivity(net, "local") ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.13986 -0.04486 -0.00706  0.04120  0.19448
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   0.35098   0.01127  31.133  <2e-16 ***
## node.importance -0.33852   0.16969  -1.995    0.05 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07872 on 69 degrees of freedom
## Multiple R-squared:  0.05454,    Adjusted R-squared:  0.04083
## F-statistic:  3.98 on 1 and 69 DF,  p-value: 0.05
```

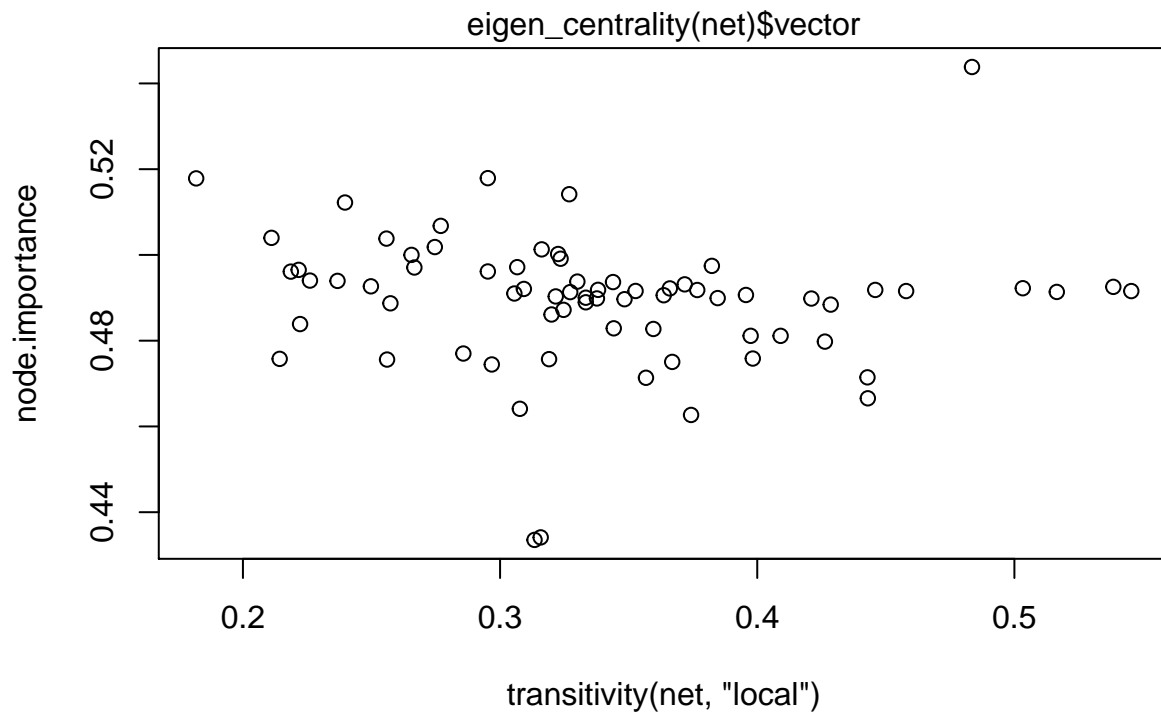
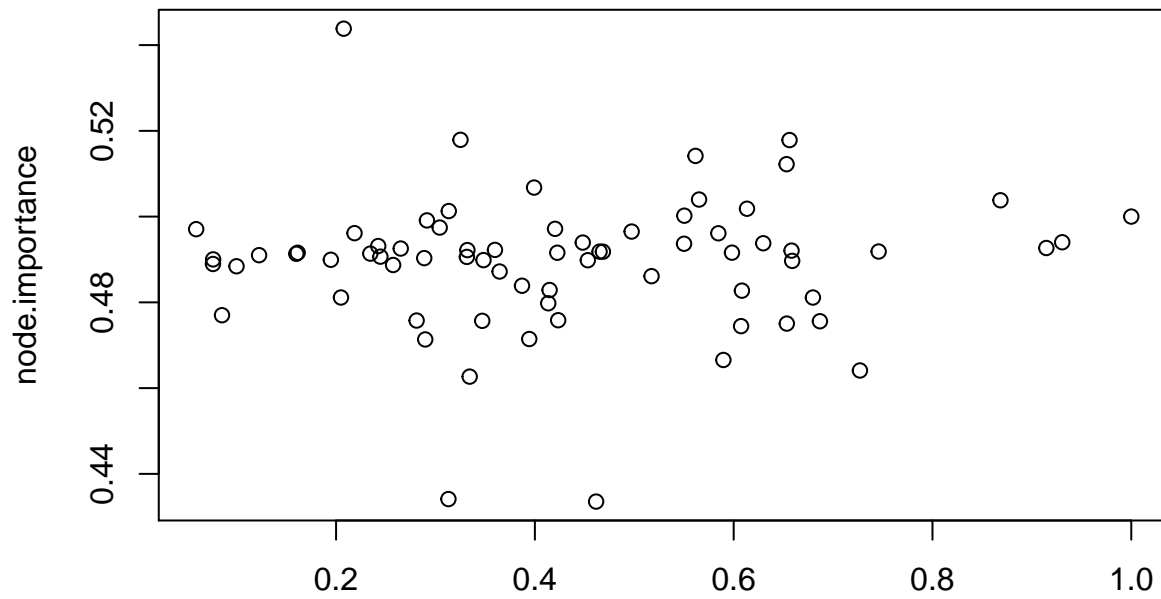
```
# gradient-based
```

```
# sum abs value node features
```

```
importance.gradient<-plot.node.importance(cluster.model,importance.type = "gradient", relate.cluster.me
```







```
##
## Call:
## lm(formula = betweenness(net) ~ node.importance)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
##	-122.19	-44.07	-14.77	21.26	204.27

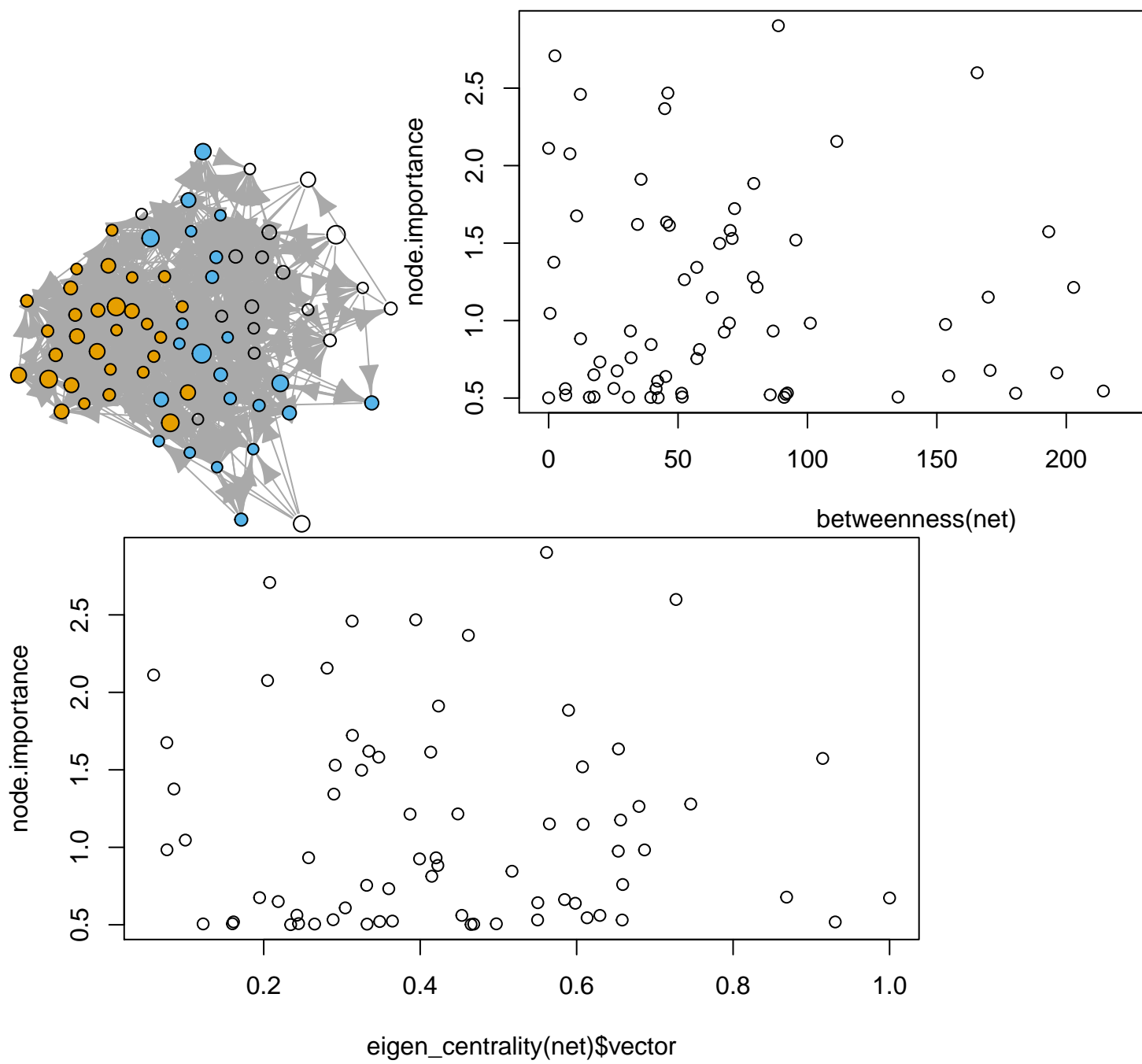
```
##
## Coefficients:
```

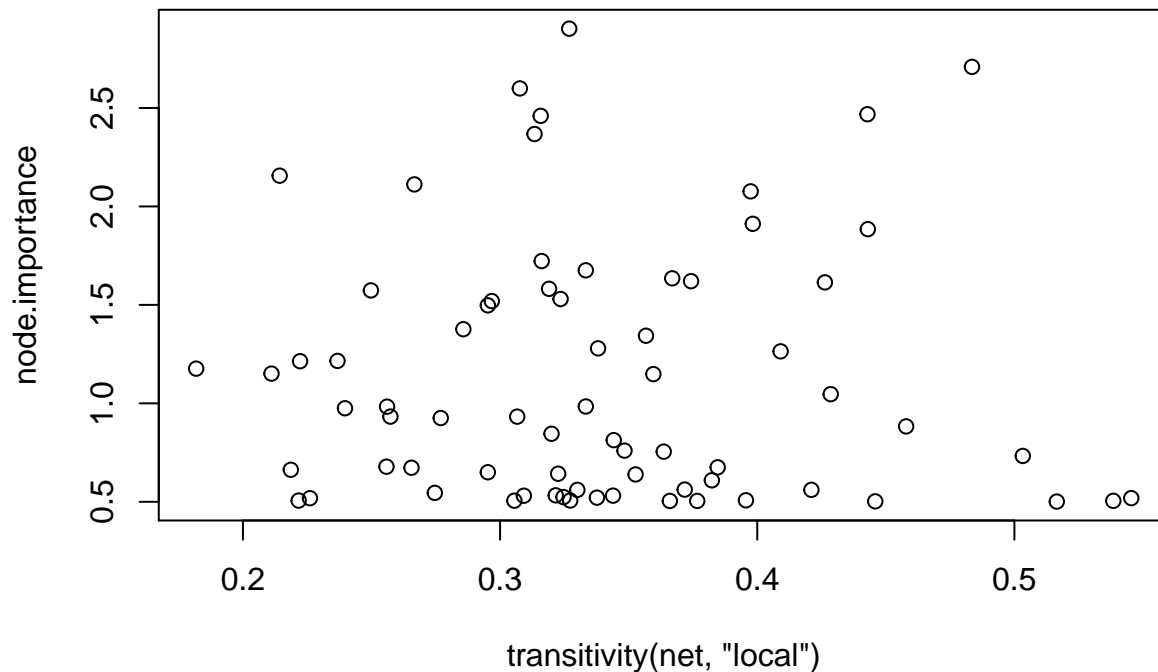
	Estimate	Std. Error	t value	Pr(> t )
## (Intercept)	-361.5	242.6	-1.490	0.1407

```

## node.importance      893.9      495.5    1.804    0.0756 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 66.41 on 69 degrees of freedom
## Multiple R-squared:  0.04505,    Adjusted R-squared:  0.03121
## F-statistic: 3.255 on 1 and 69 DF,  p-value: 0.07558
##
##
## Call:
## lm(formula = eigen_centrality(net)$vector ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.37634 -0.14419 -0.01534  0.16868  0.56273
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      0.1507      0.7959   0.189   0.850
## node.importance   0.5731      1.6255   0.353   0.726
##
## Residual standard error: 0.2179 on 69 degrees of freedom
## Multiple R-squared:  0.001798,    Adjusted R-squared:  -0.01267
## F-statistic: 0.1243 on 1 and 69 DF,  p-value: 0.7255
##
##
## Call:
## lm(formula = transitivity(net, "local") ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.144067 -0.051639 -0.006387  0.042929  0.208047
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      0.5529      0.2946   1.877   0.0648 .
## node.importance  -0.4385      0.6017  -0.729   0.4687
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.08065 on 69 degrees of freedom
## Multiple R-squared:  0.007636,    Adjusted R-squared:  -0.006746
## F-statistic: 0.5309 on 1 and 69 DF,  p-value: 0.4687
##
## attention-based
## strength of layer or aggregated across layers
importance.attention<-plot.node.importance(cluster.model,importance.type = "attention", relate.cluster.

```

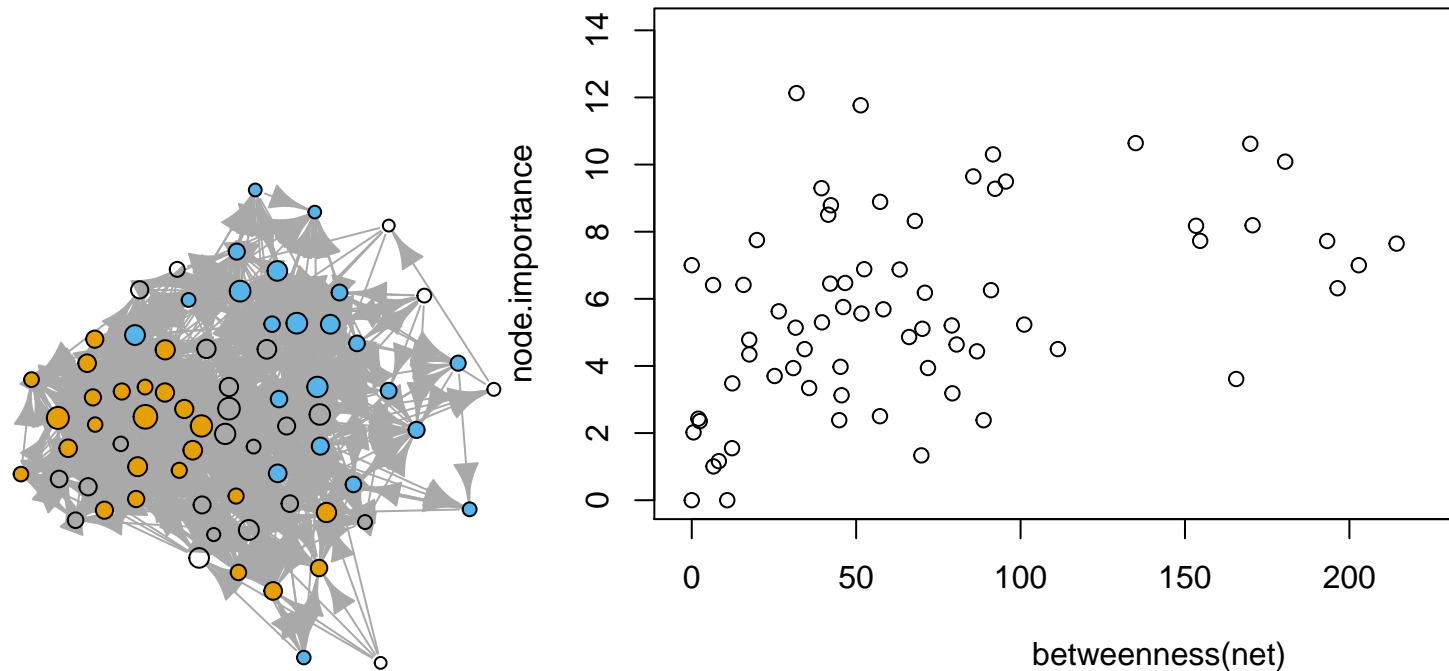


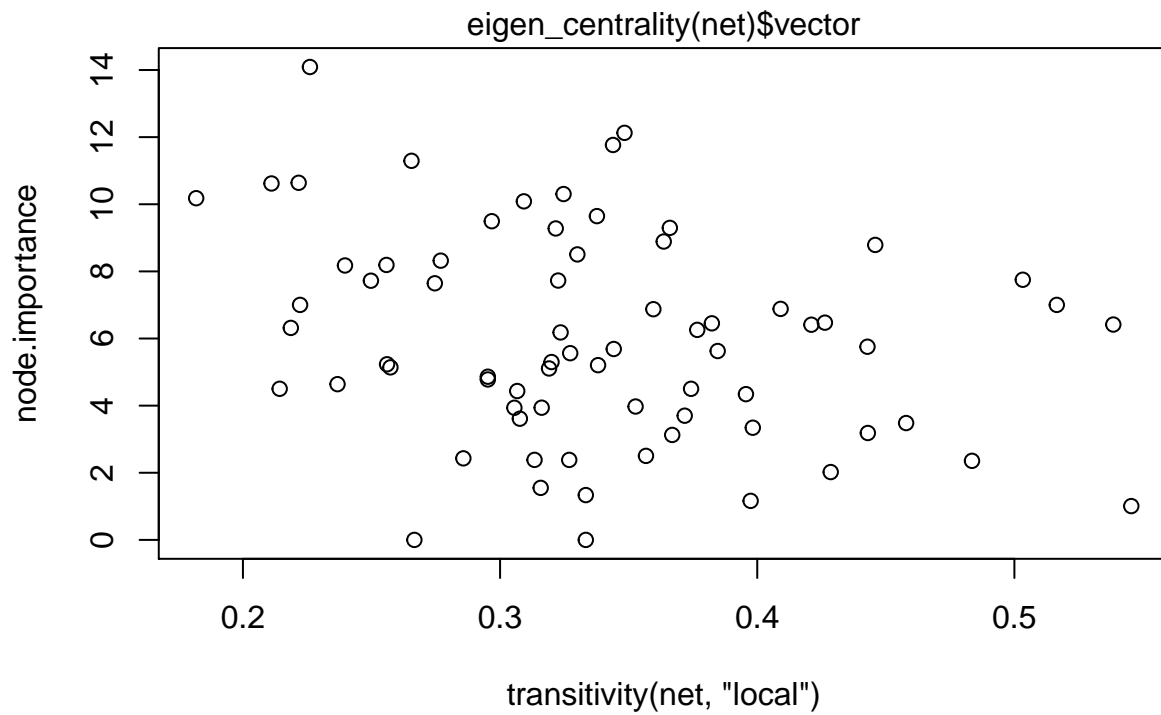
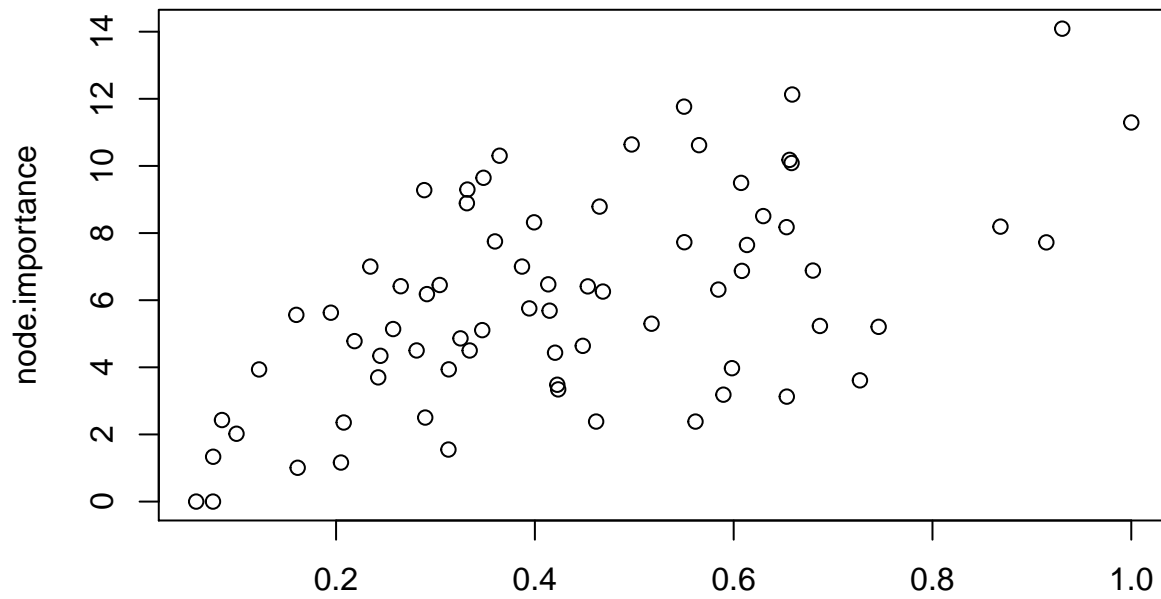


```
##
## Call:
## lm(formula = betweenness(net) ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -83.20 -48.24 -16.63  17.84 201.38
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      89.02      16.15   5.511 5.77e-07 ***
## node.importance  -11.63      12.44  -0.934   0.353
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 67.53 on 69 degrees of freedom
## Multiple R-squared:  0.0125, Adjusted R-squared:  -0.001815
## F-statistic: 0.8732 on 1 and 69 DF, p-value: 0.3533
##
## Call:
## lm(formula = eigen_centrality(net)$vector ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.35750 -0.14549 -0.01449  0.16741  0.56039
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      0.45212     0.05208   8.681 1.14e-12 ***
## node.importance -0.01860     0.04012  -0.464   0.644
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2177 on 69 degrees of freedom
## Multiple R-squared:  0.003105,    Adjusted R-squared:  -0.01134
## F-statistic: 0.2149 on 1 and 69 DF,  p-value: 0.6444
##
##
## Call:
## lm(formula = transitivity(net, "local") ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.15640 -0.04831 -0.01034  0.03988  0.20491
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.342375   0.019359  17.686  <2e-16 ***
## node.importance -0.003537   0.014912  -0.237    0.813
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.08093 on 69 degrees of freedom
## Multiple R-squared:  0.0008146,    Adjusted R-squared:  -0.01367
## F-statistic: 0.05625 on 1 and 69 DF,  p-value: 0.8132
```

```
# motif-based, for now just centrality, measure
# what part of total graph does motif occupy * betweenness centrality or average path length
# or how much does removal of motif effect accuracy
cl<-extract.clusters(cluster.model.2)
importance.motif<-plot.node.importance(cluster.model.2,importance.type = "motif", relate.cluster.meas=T
```





```
##
## Call:
## lm(formula = betweenness(net) ~ node.importance)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
##	-118.624	-34.549	-9.163	31.979	118.464

```
##
## Coefficients:
```

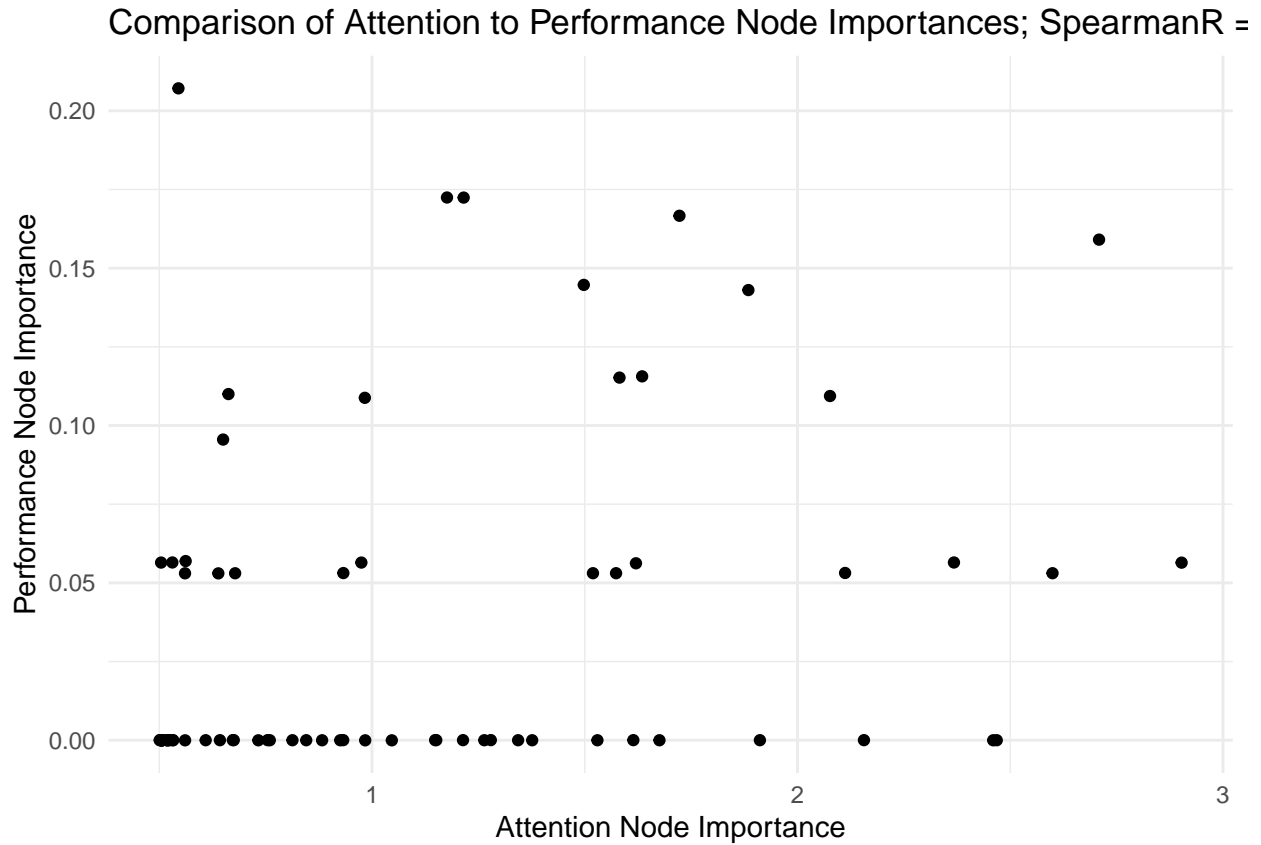
	Estimate	Std. Error	t value	Pr(> t )
## (Intercept)	3.280	14.621	0.224	0.823

```
## node.importance    12.136      2.172    5.587 4.26e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 56.39 on 69 degrees of freedom
## Multiple R-squared:  0.3115, Adjusted R-squared:  0.3015
## F-statistic: 31.22 on 1 and 69 DF,  p-value: 4.258e-07
##
##
## Call:
## lm(formula = eigen_centrality(net)$vector ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.27233 -0.13822 -0.03691  0.10620  0.41486
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.195207   0.046652   4.184 8.28e-05 ***
## node.importance 0.039424   0.006931   5.688 2.85e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1799 on 69 degrees of freedom
## Multiple R-squared:  0.3192, Adjusted R-squared:  0.3094
## F-statistic: 32.36 on 1 and 69 DF,  p-value: 2.85e-07
##
##
## Call:
## lm(formula = transitivity(net, "local") ~ node.importance)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.134749 -0.051506 -0.005882  0.045764  0.203172
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    0.381361   0.020170  18.907 <2e-16 ***
## node.importance -0.007180   0.002996  -2.396  0.0193 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07779 on 69 degrees of freedom
## Multiple R-squared:  0.07682, Adjusted R-squared:  0.06345
## F-statistic: 5.742 on 1 and 69 DF,  p-value: 0.01928
```

## importance comparison

```
importances<-data.frame(attention=importance.attention,
                        performance=importance.performance,
                        motif=importance.motif,
                        gradient=importance.gradient)
```

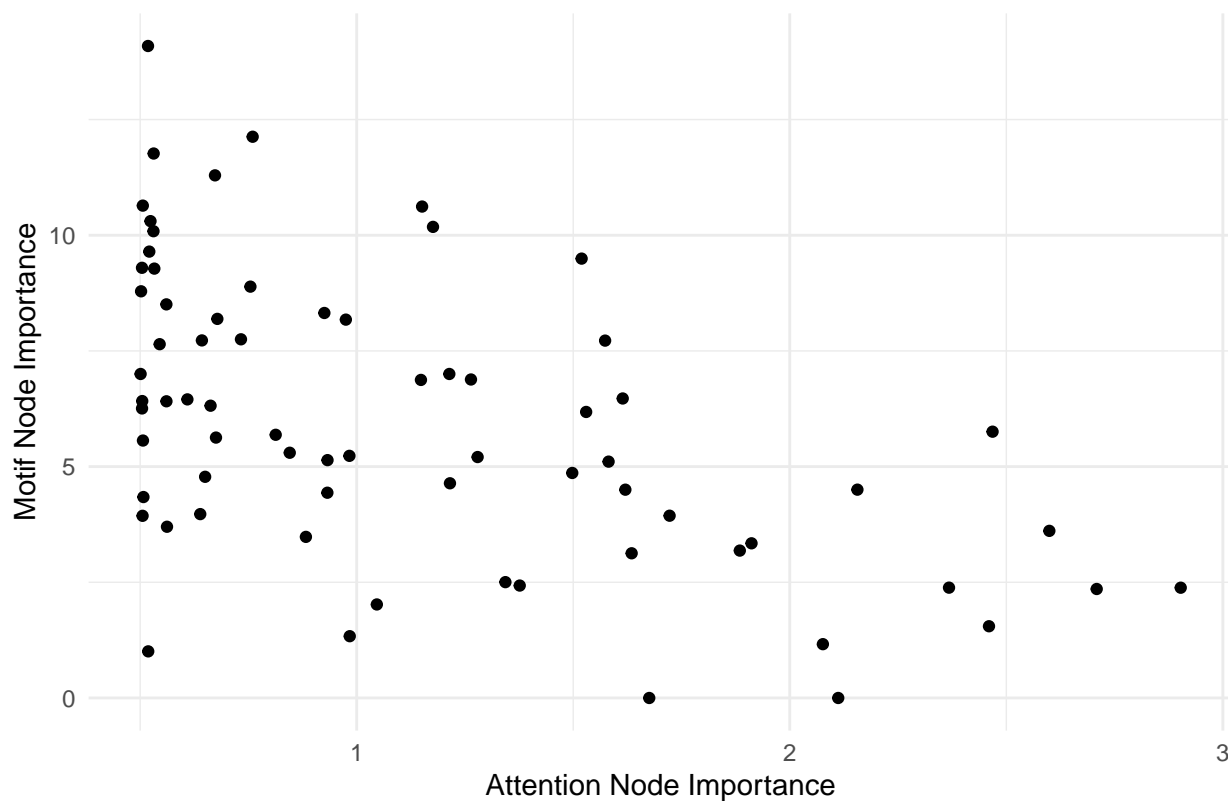
```
ggplot(importances)+
  geom_jitter(aes(attention,performance))+
  labs(x="Attention Node Importance",y="Performance Node Importance")+
  ggtitle(paste("Comparison of Attention to Performance Node Importances;", "SpearmanR =", toString(round(
  theme_minimal()
```



```
ggplot(importances)+
  geom_jitter(aes(attention,motif))+
  labs(x="Attention Node Importance",y="Motif Node Importance")+
  ggtitle(paste("Comparison of Attention to Motif Node Importances;", "SpearmanR =", toString(round(
  theme_minimal()
```

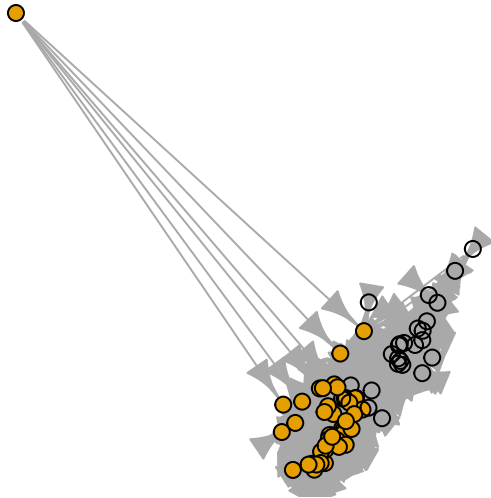


Comparison of Attention to Motif Node Importances; SpearmanR =  $-0.53$



Matching graph embeddings to multivariate normal distribution

```
parameters.3<-update.parameters(parameters,list(ae_type="ARGVA",
                                                K=2L,
                                                lambda_kl=1e-2,
                                                kl_warmup=10L,
                                                lambda_adv=1e-4,
                                                lambda_recon=1.,
                                                lambda_cluster=3.,
                                                epoch_cluster=120L,
                                                n_layers=2L,
                                                model_save_loc="generative.model.pkl"))
embedding.model<-cluster.model.fit(parameters.3, net.list)
z<-extract.embeddings(embedding.model)
cl<-extract.clusters(embedding.model)
lo<-make.layout(z)
G.true<-extract.graphs(embedding.model)$A.true
plot.net(G.true,cl,layout=lo)
```

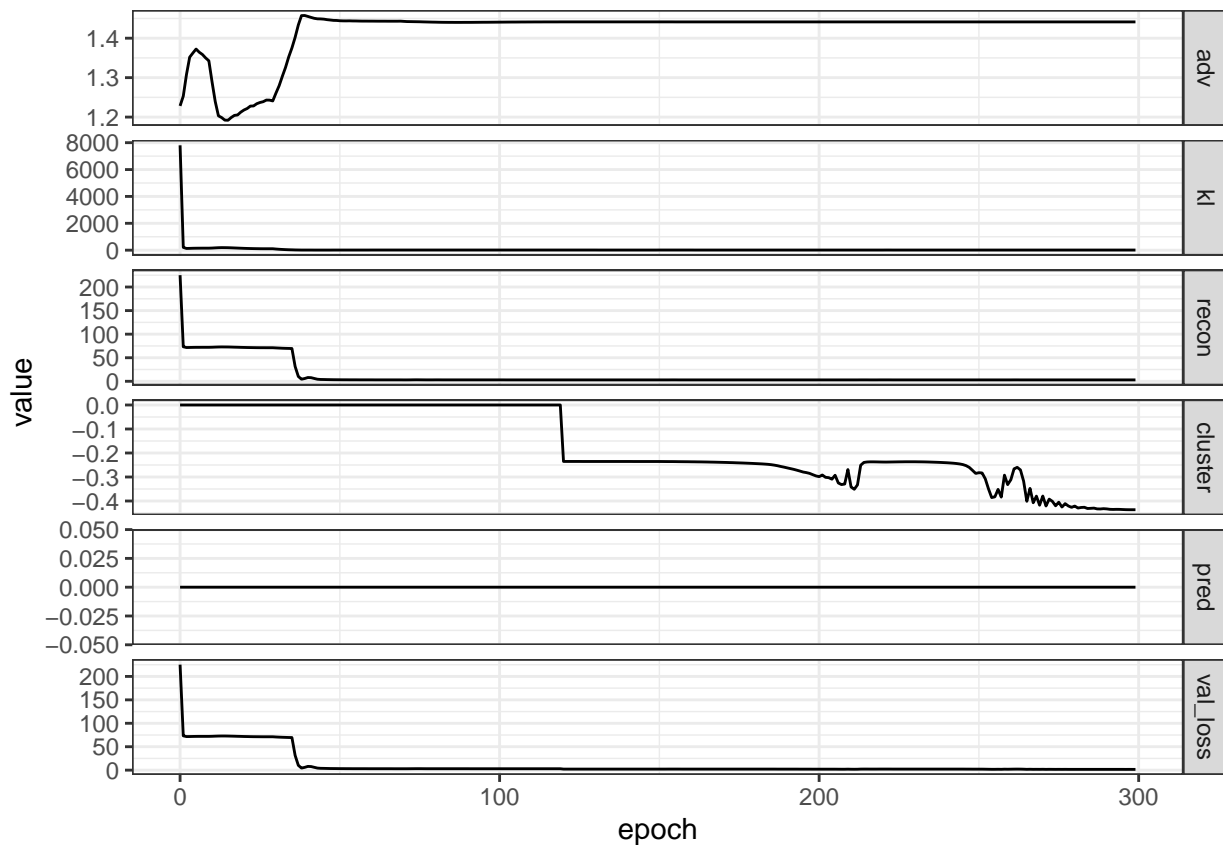


## Plot diagnostics with added variational KL divergence loss

```
summary(embedding.model)
plot.diagnostics(embedding.model)
```

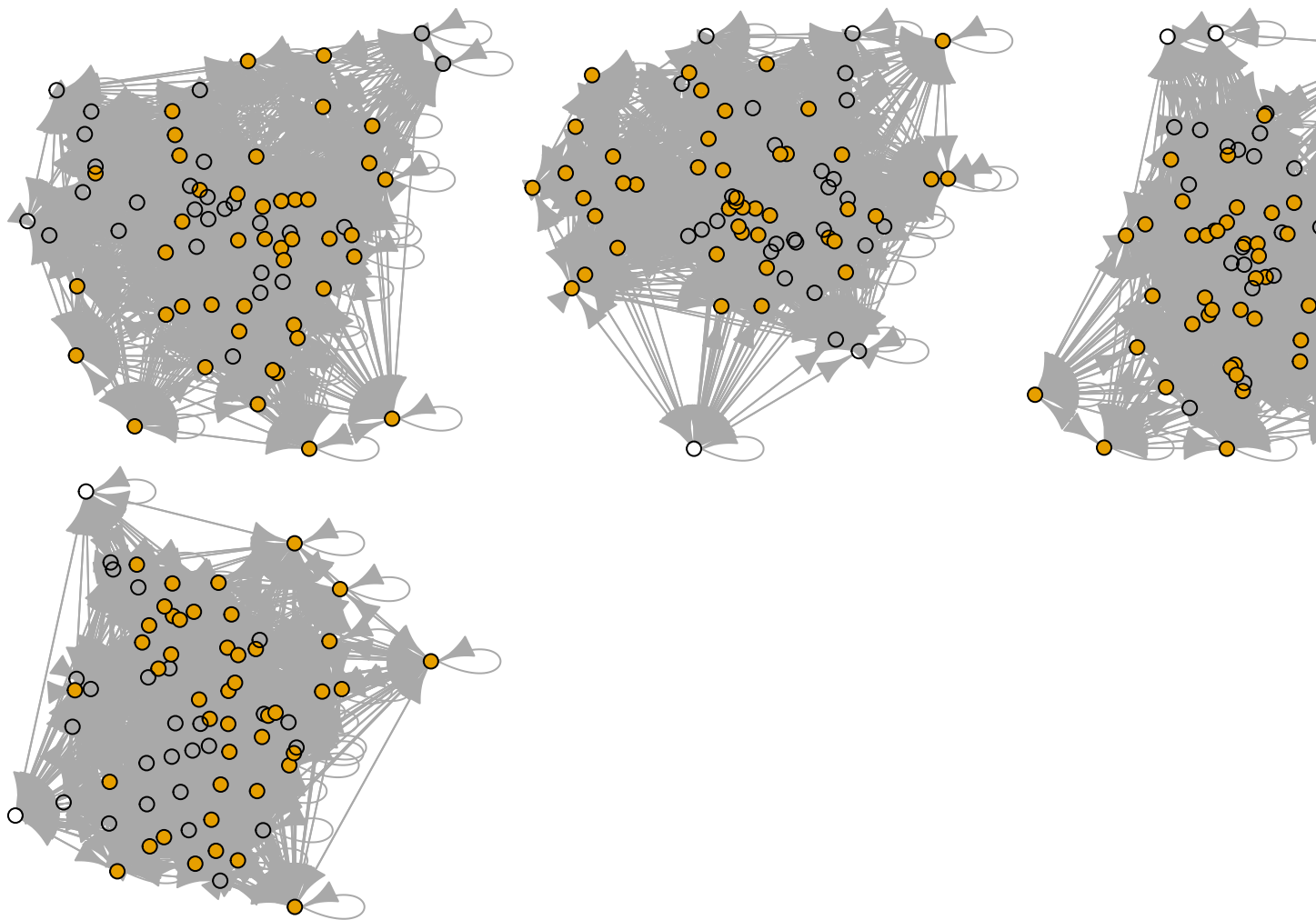
```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```

```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```



## Simulate Networks from Variational Graph Auto-Encoder model

```
sim.graphs<-simulate.networks(embedding.model,nsim=30)
cl<-extract.clusters(embedding.model)
for (i in c(1,2,20,30)){
  net.sim<-sim.graphs$networks[[i]]
  embedding<-sim.graphs$embeddings[[i]]
  lo<-make.layout(embedding)
  plot.net(net.sim,cl,layout = lo)
}
```



## Run classification model

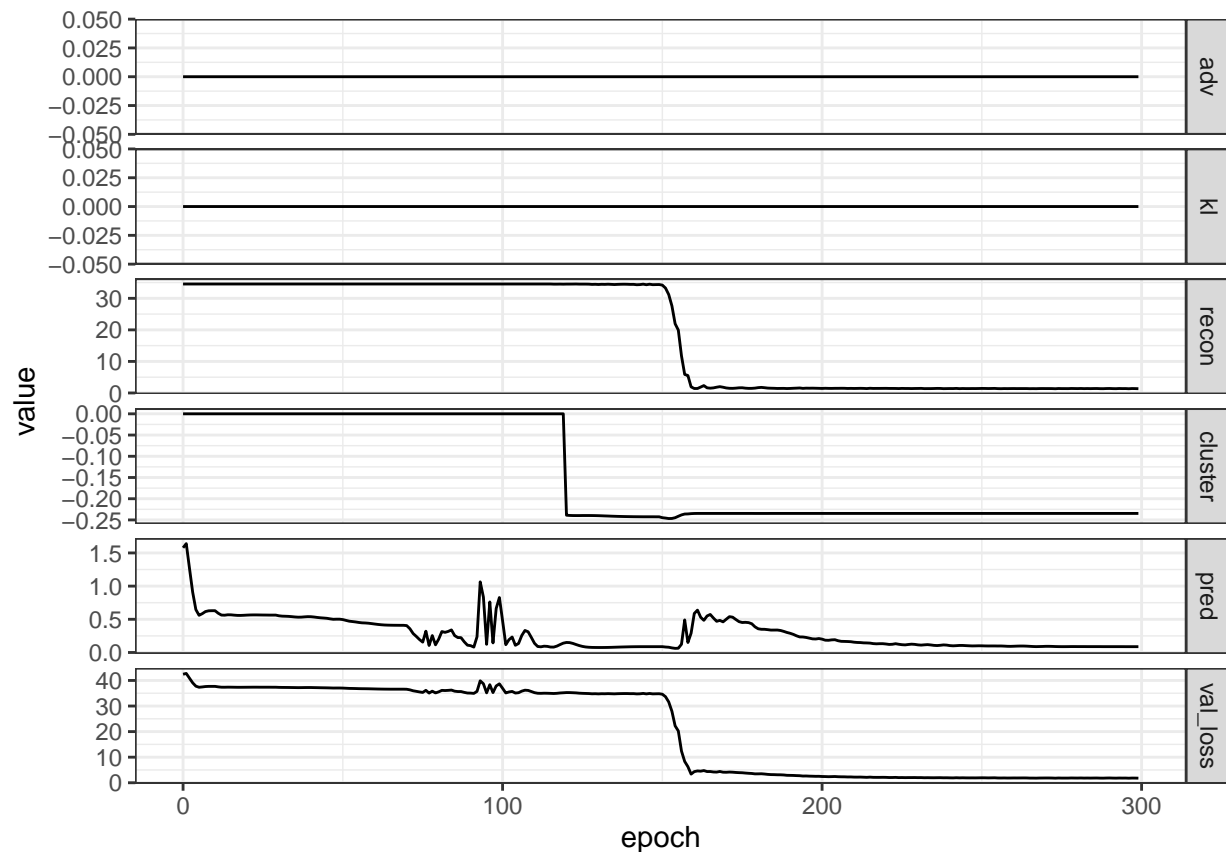
```
parameters.4<-update.parameters(parameters,list(ae_type="GAE",
                                                K=2L,
                                                lambda_kl=0,
                                                lambda_recon=0.,
                                                lambda_cluster=0.,
                                                epoch_cluster=120L,
                                                n_layers=2L,
                                                lambda_pred=5.,
                                                prediction_column="office2",
                                                model_save_loc="prediction.model.pkl"))

prediction.model<-classify.model.fit(parameters.4, net.list)
plot.diagnostics(prediction.model)
```

```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
```

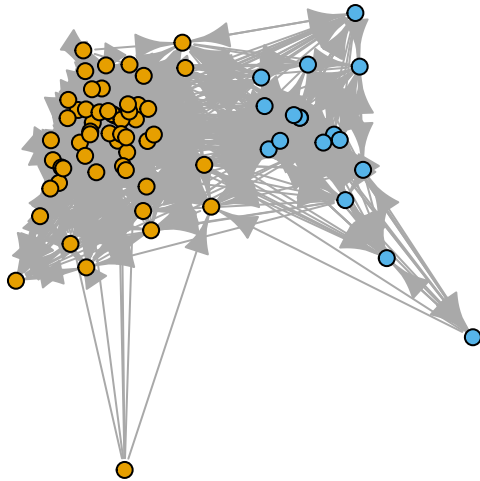
```
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```

```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```



```
summary(prediction.model)
```

```
z<-extract.embeddings(prediction.model)
y<-apply(extract.prediction(prediction.model),1,function(x) which.max(x))
lo<-make.layout(z)
G.true<-extract.graphs(prediction.model)$A.true
plot.net(G.true,y,layout=lo)
```



## Comparisons to other R Libraries

### Social Influence

```
# fit lnam model
X<-data.frame(vertex_attr(net))
geo.dist<-distances(net)
inv.geo.dist<-geo.dist(-1)
diag(inv.geo.dist)<-0
fit <- lnam(y=V(net)$practice,x=as.matrix(X[,c("seniority","age","gender")]),NULL,inv.geo.dist)

## Loading required namespace: numDeriv

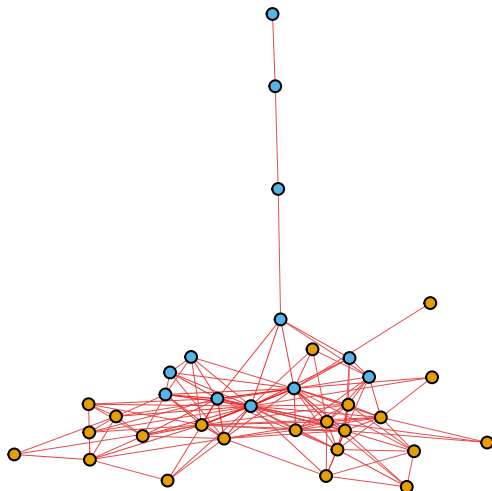
# inspect autoregressive dependence
summary(fit)

##
## Call:
## lnam(y = V(net)$practice, x = as.matrix(X[, c("seniority", "age",
##      "gender")]), W1 = NULL, W2 = inv.geo.dist)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9942 -0.4064 -0.1184  0.5321  0.9226
##
## Coefficients:
##              Estimate Std. Error Z value Pr(>|z|)
## seniority -0.010420   0.008283  -1.258  0.20842
## age        0.025880   0.005110   5.065 4.09e-07 ***
## gender     0.347770   0.111843   3.109 0.00187 **
## rho2.1     0.146954   0.019888   7.389 1.48e-13 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
##      Estimate Std. Error
## Sigma    0.4397      0.001
```

```
##
## Goodness-of-Fit:
## Residual standard error: 0.5455 on 67 degrees of freedom (w/o Sigma)
## Multiple R-Squared: 0.1685, Adjusted R-Squared: 0.1188
## Model log likelihood: -37.21 on 66 degrees of freedom (w/Sigma)
## AIC: 84.43 BIC: 95.74
##
## Null model: meanstd
## Null log likelihood: -50.67 on 69 degrees of freedom
## AIC: 105.3 BIC: 109.9
## AIC difference (model versus null): 20.92
## Heuristic Log Bayes Factor (model versus null): 14.13

# get social influence from fit model
inf<-matrix(0,ncol=fit$df.total,nrow=fit$df.total)
if(!is.null(fit$W1))
  inf<-inf+qr.solve(diag(fit$df.total)-apply(sweep(fit$W1,1,fit$rho1,"*"), c(2,3),sum))
if(!is.null(fit$W2))
  inf<-inf+qr.solve(diag(fit$df.total)-apply(sweep(fit$W2,1,fit$rho2,"*"), c(2,3),sum))
syminf<-abs(inf)+abs(t(inf))
diag(syminf)<-0
infco<-cmdscale(as.dist(max(syminf)-syminf),k=2)
diag(inf)<-NA
stdinf<-inf-mean(inf,na.rm=TRUE)
infsd<-sd(as.vector(stdinf),na.rm=TRUE)
stdinf<-stdinf/infsd
stdinf[is.na(stdinf)]<-0

# plot social influence matrix
vis.weighted.graph(abs(stdinf),weight.scaling.factor = 0.7,cl=X$practice,threshold=1.96)
```



```
##           [,1]      [,2]      [,3]      [,4]      [,5]      [,6]
## [1,] 0.00000000 0.07201250 0.01240510 0.40744382 0.411453372 0.398142882
## [2,] 0.07201250 0.00000000 0.30607125 0.08851335 0.675466974 0.265825657
## [3,] 0.01240510 0.30607125 0.00000000 0.10717705 0.064472666 0.169780878
## [4,] 0.40744381 0.08851335 0.10717705 0.00000000 0.234802390 0.116340338
## [5,] 0.41145337 0.67546697 0.06447267 0.23480239 0.000000000 0.892597055
## [6,] 0.39814288 0.26582566 0.16978088 0.11634034 0.892597055 0.000000000
## [7,] 0.48885887 0.37394088 0.32633865 0.56216841 0.575988137 0.884743035
```

```

## [8,] 0.381364860 0.04982264 0.12206488 0.21838588 0.604073636 0.544043882
## [9,] 0.046901565 0.57588112 0.11930121 0.11392378 0.559630993 0.259827549
## [10,] 0.317747018 0.62918476 0.07072153 0.09471917 0.223935148 0.026359211
## [11,] 0.061387193 0.60524372 0.27805379 0.57789508 0.782206853 0.939190745
## [12,] 0.359981669 0.17093785 0.28661333 0.66437949 0.765907640 0.617011193
## [13,] 0.038849797 0.70069360 0.28469667 0.03451303 0.785574726 0.971567982
## [14,] 0.780030799 0.02510344 0.03314376 0.06469898 0.538853698 0.626089713
## [15,] 0.356407084 0.03625468 0.16600081 0.04113784 0.150851881 0.298013335
## [16,] 0.601927795 0.61082171 0.32559237 0.13488323 0.660851721 0.359271782
## [17,] 0.600107910 0.59522578 0.26142528 0.15079718 0.836173674 0.304945360
## [18,] 0.540947586 0.23799791 0.30283413 0.09736391 2.096367706 1.075789629
## [19,] 0.055592351 1.58636349 0.46726531 1.15184671 0.569659300 1.032173227
## [20,] 0.711009377 1.03946752 0.32504581 0.57994587 0.628968279 0.148490576
## [21,] 1.019241524 0.28606804 0.34347539 0.73299039 0.852890548 0.859745286
## [22,] 0.484079592 0.64592740 0.11504150 0.33963334 0.278455170 0.147426072
## [23,] 0.931480741 0.46867846 0.94717379 0.51079900 0.896123340 0.432391393
## [24,] 0.848881226 0.77923269 0.45401363 0.87662773 1.087166704 0.002491821
## [25,] 0.739824778 0.01274044 1.03010803 0.07436708 0.548614828 0.671187717
## [26,] 0.416022199 0.43374017 0.66073764 0.10655983 0.027774329 0.115934540
## [27,] 0.923827011 0.93389379 0.54623966 0.27504200 0.052723163 0.068586180
## [28,] 1.370647622 0.02784513 0.67375968 1.02254366 1.318618464 1.767388513
## [29,] 0.416919837 1.63042863 0.37496238 1.14165899 0.677150676 0.308303757
## [30,] 0.113308081 0.31372981 0.90691880 0.28352768 0.961927863 2.079332213
## [31,] 0.792035618 0.64322367 0.07968035 0.60142882 1.820682827 1.801642353
## [32,] 0.953124202 0.31251332 0.03276065 0.10669613 2.054904222 2.291662332
## [33,] 0.569918934 0.48727946 0.05917903 0.36366777 1.771470229 0.835136720
## [34,] 0.660986890 1.80731652 0.39811219 0.30272880 0.624997868 0.245907288
## [35,] 1.150715452 0.22380364 0.01290111 0.98150719 2.035741216 2.193268459
## [36,] 1.102838756 0.09190581 0.02766210 0.40994066 0.629898299 0.425307091
## [37,] 0.262670955 0.42722259 0.07879468 0.26445333 0.182428047 0.382234595
## [38,] 0.054290746 0.40719255 0.16019216 0.66642371 0.282688723 0.449828117
## [39,] 0.946008076 0.72260969 0.23024195 0.87564118 0.271166505 0.876219335
## [40,] 0.371808614 0.62451149 0.31731855 1.03609017 0.902869856 1.159905149
## [41,] 1.011670181 0.80978378 0.47606304 0.03875001 0.820153050 1.083325525
## [42,] 0.605784730 1.20876913 0.46949645 0.70794713 0.317522498 0.332098448
## [43,] 1.149818179 1.00991333 0.35829705 0.68369092 0.962631337 0.735133704
## [44,] 0.584823809 1.78235683 0.30547338 0.11147786 0.535661958 0.186802901
## [45,] 0.755811960 0.56746613 0.11968865 1.42258446 0.514628184 0.108188591
## [46,] 0.810537224 0.30751067 0.04264051 1.32636317 0.301535269 0.684231900
## [47,] 0.040567796 0.13053755 0.30354431 0.04931565 0.372603830 0.439059681
## [48,] 0.512463517 1.53339566 0.40695893 0.10479941 0.814990143 0.519294717
## [49,] 0.071994194 0.70760772 0.87328678 0.72351053 0.784603560 0.871611302
## [50,] 0.918925488 0.43532066 0.10912365 0.10105461 1.908449123 1.915769792
## [51,] 0.322470831 0.98798466 0.01681546 0.65414105 1.645144273 1.382488418
## [52,] 1.096223239 1.09633135 0.67520848 0.17812477 0.113695741 1.134338651
## [53,] 0.053144140 1.75261852 0.01945876 0.13334468 0.813102698 0.027481188
## [54,] 0.827693731 0.97228096 0.80094284 0.07100842 0.521977826 0.321658508
## [55,] 0.442425126 0.64837464 0.65016064 1.05561080 0.888205517 1.149718375
## [56,] 1.161840433 0.66078257 0.36525392 0.91520254 0.005847035 1.196172005
## [57,] 1.263035228 0.68815588 0.33151998 1.01764939 1.084196695 1.232879349
## [58,] 0.358292177 1.04652394 1.14443729 0.25662543 1.832899184 1.840575074
## [59,] 0.410638464 0.74990028 0.25913537 0.22068267 2.056777628 2.001115733
## [60,] 0.738835799 0.32741490 0.25389033 1.20997484 0.403099373 0.006139496
## [61,] 0.106218121 0.52799643 0.09273820 1.27648970 0.561943113 0.381135730

```



```

## [62,] 0.232900870 0.07447721 0.16126961 0.84643263 0.547665576 0.426539826
## [63,] 0.907555362 0.50647533 0.21052757 0.15877421 2.154331582 1.333956541
## [64,] 0.443553854 1.35697012 0.62536795 0.70785075 1.039472021 0.610212194
## [65,] 1.065743707 0.92618964 0.71659699 0.20560405 0.095315521 0.116591171
## [66,] 0.048296488 0.80402124 0.23611145 0.88437127 1.127084622 1.238322604
## [67,] 0.142772159 0.48072652 0.21006226 1.00587126 1.087654813 1.156627637
## [68,] 0.003551585 0.22714046 0.26763957 0.53979766 0.808867831 0.761316726
## [69,] 0.230184898 0.34624704 0.09050768 0.44861550 0.687752936 0.629739778
## [70,] 0.575399915 0.02352503 0.19702598 0.79342578 0.441054358 0.152088277
## [71,] 0.058997008 0.59058770 0.18518493 0.91961581 0.909101048 1.046423631
##      [,7]      [,8]      [,9]      [,10]     [,11]     [,12]
## [1,] 0.48885888 0.381364860 0.04690157 0.317747018 0.06138719 0.35998167
## [2,] 0.37394088 0.049822642 0.57588112 0.629184756 0.60524372 0.17093785
## [3,] 0.32633865 0.122064883 0.11930121 0.070721534 0.27805379 0.28661333
## [4,] 0.56216841 0.218385884 0.11392378 0.094719170 0.57789508 0.66437949
## [5,] 0.57598814 0.604073636 0.55963099 0.223935148 0.78220685 0.76590764
## [6,] 0.88474304 0.544043882 0.25982755 0.026359211 0.93919074 0.61701119
## [7,] 0.00000000 0.447666027 0.27995830 0.538950202 0.90591370 0.30281085
## [8,] 0.44766603 0.000000000 0.14382603 0.004765771 0.46263319 0.97543429
## [9,] 0.27995830 0.143826025 0.00000000 0.259710323 0.19695066 0.01052229
## [10,] 0.53895020 0.004765771 0.25971032 0.000000000 0.47258738 0.16808710
## [11,] 0.90591370 0.462633191 0.19695066 0.472587376 0.00000000 0.68942524
## [12,] 0.30281085 0.975434290 0.01052229 0.168087102 0.68942524 0.00000000
## [13,] 1.11796339 0.264410611 0.49991817 0.590685790 0.31795555 0.43860401
## [14,] 0.86407388 1.104957368 0.01883060 0.001131951 0.95161385 0.58505355
## [15,] 0.36825826 0.584027142 0.25361014 0.145527790 0.96833384 0.66059785
## [16,] 0.16086562 0.347916141 0.19860601 0.438353272 0.56693012 0.31381318
## [17,] 0.39629468 0.407105318 0.38004637 0.303613195 0.74170524 0.22604157
## [18,] 1.36712270 0.478135782 0.21945827 0.307162497 0.92110906 0.54877416
## [19,] 2.05819167 0.777898338 1.21119199 0.179686973 1.61808407 0.12875892
## [20,] 0.04088362 0.463309150 0.07532388 0.158176652 0.87044744 0.76609654
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## [52,] 2.3696830 2.105905678 2.5556575 0.743868861 0.77947363 1.271180988
## [53,] 0.3354522 0.452729021 0.3139301 0.617775847 0.41443398 0.577709605
## [54,] 1.3943451 1.386147247 0.5909154 0.788406479 0.14346498 0.946059146
## [55,] 0.0000000 2.085883158 2.4274900 1.099175809 0.99493864 1.371630949
## [56,] 2.0858832 0.000000000 2.3548711 0.971122127 0.90302681 1.152426589
## [57,] 2.4274900 2.354871113 0.0000000 1.033261557 1.01080281 0.950069547
## [58,] 1.0991758 0.971122127 1.0332616 0.000000000 2.35565463 0.174239494
## [59,] 0.9949386 0.903026806 1.0108028 2.355654633 0.00000000 0.061836196
## [60,] 1.3716309 1.152426589 0.9500695 0.174239494 0.06183620 0.000000000
## [61,] 0.8363068 0.333087324 0.2888094 0.047591319 0.13961000 1.703902063

```

```

## [62,] 0.3580715 0.813429864 0.9108137 0.414476350 0.30395568 1.127273029
## [63,] 1.9137490 1.821054678 2.4155644 1.252638413 1.55178151 0.405376353
## [64,] 0.7609150 0.197460737 0.4447569 0.531893106 0.55030922 0.474802238
## [65,] 1.8085940 1.717820736 2.0238520 0.116347797 0.74112544 1.188470791
## [66,] 1.9218586 1.786877812 2.0649716 1.111138294 1.09109791 1.010920181
## [67,] 2.4259392 1.963713952 2.4860046 1.114268894 1.29980698 0.954886818
## [68,] 0.8085041 0.561645320 0.6913383 0.829868721 1.08293386 0.637665810
## [69,] 0.3351682 0.323137623 0.5020461 0.505090472 0.47311919 0.319459409
## [70,] 0.6734444 0.685733510 0.5578771 0.226686177 0.07784986 0.094806503
## [71,] 1.9560825 1.719495696 2.0127495 0.925594026 0.78217899 0.807531558
##      [,61]      [,62]      [,63]      [,64]      [,65]      [,66]
## [1,] 0.10621812 0.2329008699 0.90755536 0.44355385 1.06574371 0.04829649
## [2,] 0.52799643 0.0744772087 0.50647533 1.35697012 0.92618964 0.80402124
## [3,] 0.09273820 0.1612696090 0.21052757 0.62536795 0.71659699 0.23611145
## [4,] 1.27648970 0.8464326321 0.15877421 0.70785075 0.20560405 0.88437127
## [5,] 0.56194311 0.5476655758 2.15433158 1.03947202 0.09531552 1.12708462
## [6,] 0.38113573 0.4265398260 1.33395654 0.61021219 0.11659117 1.23832260
## [7,] 1.67466300 0.0194568829 1.61311432 1.27017988 1.35317648 1.36637653
## [8,] 0.26921787 0.2140175365 1.30156971 0.84719180 1.26970628 0.37036086
## [9,] 0.44518148 0.1876879188 0.20946060 1.01808437 0.18354588 0.60731014
## [10,] 0.59287162 0.0298390790 0.26466618 1.23534333 0.71884369 0.68165786
## [11,] 0.92496056 1.0196480880 1.51900687 0.47214029 1.28379657 1.56163436
## [12,] 0.20638924 0.8891491880 0.72499183 0.59813907 0.42970540 0.53799186
## [13,] 0.41610556 0.3490559437 1.58485260 0.04045909 1.11861246 1.34199273
## [14,] 0.31080209 0.2858394803 2.49324974 0.47548065 1.27355686 0.99107138
## [15,] 0.40626497 0.7223267252 1.65023328 0.54944010 0.04403947 0.94874548
## [16,] 0.36428025 0.0471752610 0.09504110 1.00884592 0.86442984 0.51755246
## [17,] 0.37157149 0.0129376724 0.10763528 1.07775365 1.11716922 0.28282763
## [18,] 0.28634613 0.2735453060 1.67913676 0.55398595 1.17706968 1.24694799
## [19,] 0.49921481 0.2545729326 0.81426238 1.07222039 2.01539544 1.94992871
## [20,] 0.23130782 0.5303678061 0.17985466 0.58244996 0.80812491 0.95187813
## [21,] 0.19815664 0.2554643526 1.29592602 0.53125562 0.26122526 1.31244363
## [22,] 0.11187560 0.3329596013 0.01666595 0.50007496 0.27961496 0.35277619
## [23,] 0.01576976 0.1310452647 0.36895636 0.33829202 0.20097516 0.79053102
## [24,] 0.25357148 0.4194530516 1.38098346 0.50334517 0.67852026 0.70405224
## [25,] 0.15817094 0.2265401503 2.61297112 0.25954301 1.43560042 1.32184956
## [26,] 0.36172954 0.3349804294 0.86538143 0.73613060 0.40162934 0.25675228
## [27,] 0.08912703 0.1747862735 1.25750858 0.34818582 0.79714123 0.09086359
## [28,] 0.11090089 0.5592720111 3.05143295 0.33579326 2.36849991 1.38584565
## [29,] 0.42013125 0.0737572528 0.11065740 0.22926094 1.29576506 1.14175701
## [30,] 0.57349639 0.8152579120 2.90445733 0.82599557 0.86568863 2.01883872
## [31,] 0.28402101 0.7497458301 2.52351682 0.98653985 1.42499106 1.64446513
## [32,] 0.43996951 0.5951564351 3.25034265 0.79490172 1.73964558 1.84667571
## [33,] 0.04285570 0.7464641119 2.27327502 0.67234331 1.22449720 1.45268861
## [34,] 1.61922178 0.0020481711 0.33074366 1.42199610 1.64435727 1.29595173
## [35,] 0.09401747 0.5275581848 3.53234423 0.72474206 2.10368003 2.38489304
## [36,] 0.13300099 0.1509330360 0.67486045 0.34680907 1.05734465 0.12094422
## [37,] 0.04226425 1.1404176979 0.89790328 0.11641270 0.72200399 0.66790387
## [38,] 0.55228146 0.2207643984 0.77745906 0.59731692 1.12825533 0.23233803
## [39,] 0.36055488 0.0156985902 1.28073517 0.61972862 1.58258935 1.68365973
## [40,] 0.44540093 0.1302835253 2.36493299 0.91969357 1.88654246 2.13393351
## [41,] 0.48418540 0.2887019170 1.63531138 0.96082849 1.40875738 1.27174404
## [42,] 0.09599002 0.3193641608 0.02477728 0.25678614 1.19837940 1.00572369
## [43,] 0.02974125 0.2488469306 1.65305132 0.24681574 0.16965210 0.09162206

```

```

## [44,] 0.63816337 0.2566597396 0.62651264 0.64148693 0.84349987 0.48745657
## [45,] 0.69940749 1.0115309866 0.64674980 0.37426427 1.48453042 1.11588725
## [46,] 0.76885375 0.0030764032 2.45980146 0.09973329 1.65351898 1.64979354
## [47,] 0.16069633 0.0525411584 0.90139681 0.16219244 0.32533976 0.54063439
## [48,] 0.54882166 0.0214149674 0.16060604 1.29432215 1.02937878 0.69228938
## [49,] 0.18067807 0.0472341612 1.75379233 0.41360657 1.75995475 1.98950801
## [50,] 0.46647291 0.3838983561 2.91475234 0.74945716 1.48413343 0.63787214
## [51,] 0.33143125 0.5778901499 0.59192860 1.10562465 0.35348535 0.68627489
## [52,] 0.48073269 0.1963695950 1.88585357 0.89381205 1.92427099 1.84116661
## [53,] 0.67181453 0.2194585311 0.30227036 1.68496267 0.51710964 0.32375304
## [54,] 0.34357814 0.0907775758 0.87650144 0.71345661 1.53213694 1.25304104
## [55,] 0.83630678 0.3580715107 1.91374897 0.76091497 1.80859401 1.92185864
## [56,] 0.33308732 0.8134298640 1.82105468 0.19746074 1.71782074 1.78687781
## [57,] 0.28880938 0.9108137267 2.41556440 0.44475694 2.02385200 2.06497157
## [58,] 0.04759132 0.4144763497 1.25263841 0.53189311 0.11634780 1.11113829
## [59,] 0.13961000 0.3039556759 1.55178151 0.55030922 0.74112544 1.09109791
## [60,] 1.70390206 1.1272730292 0.40537635 0.47480224 1.18847079 1.01092018
## [61,] 0.00000000 0.4725016824 0.27827534 1.58402365 0.39957986 0.29024190
## [62,] 0.47250168 0.0000000000 0.36956759 1.05736011 0.81824820 0.93232934
## [63,] 0.27827534 0.3695675940 0.00000000 0.93142182 1.66493690 1.77572408
## [64,] 1.58402365 1.0573601065 0.93142182 0.00000000 0.25241851 0.40777495
## [65,] 0.39957986 0.8182481983 1.66493690 0.25241851 0.00000000 1.56251362
## [66,] 0.29024190 0.9323293415 1.77572408 0.40777495 1.56251362 0.00000000
## [67,] 0.58403493 0.0008651042 2.05923579 0.35218348 0.99948500 2.37137330
## [68,] 0.51624221 0.0162214677 1.04401842 0.29636754 1.21340769 1.70846400
## [69,] 0.11191502 1.1577966497 0.78622284 0.79465288 1.25020907 1.72473791
## [70,] 0.21417818 0.1063639657 0.27742051 0.16002331 0.76782068 0.60339551
## [71,] 0.23899055 0.1702783926 1.26845484 0.35078998 1.67070859 2.12457161
##      [,67]      [,68]      [,69]      [,70]      [,71]
## [1,] 0.1427721591 0.003551585 0.23018490 0.57539991 0.058997008
## [2,] 0.4807265236 0.227140462 0.34624704 0.02352503 0.590587704
## [3,] 0.2100622574 0.267639569 0.09050768 0.19702598 0.185184934
## [4,] 1.0058712612 0.539797657 0.44861550 0.79342578 0.919615811
## [5,] 1.0876548130 0.808867831 0.68775294 0.44105436 0.909101048
## [6,] 1.1566276369 0.761316726 0.62973978 0.15208828 1.046423631
## [7,] 1.7106324452 1.219335185 0.49826877 0.30187924 1.471438918
## [8,] 0.4860744540 0.120530008 0.10162892 0.79847136 0.229394327
## [9,] 0.3614866945 0.214883116 0.19635982 0.05096619 0.4444444589
## [10,] 0.3976661060 0.356533455 0.29127635 0.46262167 0.461632539
## [11,] 0.8387926821 0.261121501 1.26446272 0.42584945 1.436738188
## [12,] 0.2369572427 0.458468731 0.19704022 0.38046166 0.396725034
## [13,] 1.7583409652 1.129010513 1.01901740 0.26485069 1.249577152
## [14,] 0.8148047868 0.475557139 0.66740962 1.22909390 0.267461402
## [15,] 0.9256209991 0.395504962 0.42922984 0.87495825 0.195069024
## [16,] 0.7529483665 0.893763318 0.06676222 1.12581819 0.764574933
## [17,] 0.4668559164 0.747498131 0.84338749 0.25732107 0.495146856
## [18,] 1.6125595436 1.295018510 0.65698727 0.08612462 1.404111847
## [19,] 1.7771529311 1.156689500 0.99771388 1.00145830 1.683940392
## [20,] 0.5704894103 0.554631443 0.65293798 0.19637672 0.565600291
## [21,] 0.8911349469 1.220521143 0.13349867 0.52666255 0.490027678
## [22,] 0.3542070468 0.687448952 0.20125987 0.30412455 0.681501173
## [23,] 0.0834584512 0.082088090 0.17448551 0.36930425 0.046052417
## [24,] 1.1505717352 0.069976452 0.34647019 0.71353876 0.096257937
## [25,] 1.2477127356 0.644187273 0.53463897 0.15944457 0.983640349

```

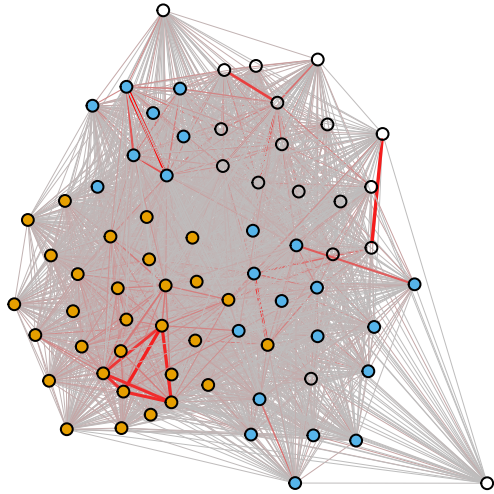
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## [26,] 0.2074271409 0.592414819 0.34790947 0.59857340 0.365101772
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## [28,] 2.2043210981 1.381115028 1.09299247 1.14978671 1.820389623
## [29,] 0.9208562723 0.406264633 0.57819699 1.09224652 0.923105570
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## [32,] 1.7967080709 1.111743379 0.88139199 1.04104415 1.352536024
## [33,] 1.3230072427 0.948879090 0.87145814 0.44795887 1.275431031
## [34,] 1.1768572740 0.682269956 0.63204479 0.01845048 1.031495055
## [35,] 2.2621352093 1.484776646 1.17460268 0.05956954 1.850729390
## [36,] 0.2399672298 0.010974171 0.18326884 0.47042937 0.008063135
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## [41,] 0.7323637630 1.012092700 0.13435265 0.77646056 0.412610050
## [42,] 0.7300422972 0.478572555 0.59533086 0.02076095 0.769749060
## [43,] 1.4154146911 0.217827773 0.10201553 0.34600228 0.175245230
## [44,] 0.2728001759 0.039178903 0.01369883 0.40323961 0.145043048
## [45,] 1.0439154540 0.660307195 0.41253884 1.22072634 0.996938307
## [46,] 1.8944851856 1.415646534 0.72629096 0.28573166 1.297554428
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## [48,] 0.2929216050 0.354843065 0.13490542 0.07456904 0.414004840
## [49,] 2.1084780838 0.826351825 1.52444259 0.24254393 1.992741115
## [50,] 1.5043339835 0.921707222 0.74548156 0.01700617 1.182215697
## [51,] 0.3354687274 0.654544551 0.52839965 0.58419487 0.409031780
## [52,] 2.1694641919 0.449172763 0.30827892 0.76966333 1.752462540
## [53,] 0.0861229323 0.077822891 0.02475654 0.24268366 0.197198688
## [54,] 1.4281220620 1.189289096 1.06465885 0.42714336 0.555781841
## [55,] 2.4259391896 0.808504129 0.33516819 0.67344441 1.956082528
## [56,] 1.9637139521 0.561645320 0.32313762 0.68573351 1.719495696
## [57,] 2.4860046267 0.691338334 0.50204606 0.55787712 2.012749525
## [58,] 1.1142688936 0.829868721 0.50509047 0.22668618 0.925594026
## [59,] 1.2998069834 1.082933856 0.47311919 0.07784986 0.782178990
## [60,] 0.9548868182 0.637665810 0.31945941 0.09480650 0.807531558
## [61,] 0.5840349283 0.516242209 0.11191502 0.21417818 0.238990551
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## [64,] 0.3521834816 0.296367537 0.79465288 0.16002331 0.350789976
## [65,] 0.9994849980 1.213407693 1.25020907 0.76782068 1.670708591
## [66,] 2.3713732991 1.708463995 1.72473791 0.60339551 2.124571609
## [67,] 0.0000000000 1.915986881 1.84431109 0.79824022 2.464558651
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## [69,] 1.8443110935 1.569739369 0.00000000 1.02481441 1.818114504
## [70,] 0.7982402176 0.060866078 1.02481441 0.00000000 0.052836668
## [71,] 2.4645586515 1.824982371 1.81811450 0.05283667 0.000000000

```

```
#
```

```
vis.weighted.graph((attention.matrices[[1]])**%(attention.matrices[[2]]),cl=extract.clusters(cluster.mo
```



##		[,1]	[,2]	[,3]	[,4]	[,5]
##	[1,]	0.0183378392	0.0043293477	0.0077631325	0.009654189	0.0093371490
##	[2,]	0.0050075594	0.0166226900	0.0015737737	0.006511254	0.0080808639
##	[3,]	0.0060734214	0.0008805970	0.0457951799	0.006152062	0.0094306720
##	[4,]	0.0079159004	0.0038085933	0.0044462426	0.015859683	0.0118684799
##	[5,]	0.0062314447	0.0004413194	0.0041501534	0.003340474	0.0324545733
##	[6,]	0.0085365005	0.0007976152	0.0080817200	0.005761127	0.0285761505
##	[7,]	0.0135459762	0.0038014065	0.0130536311	0.006169889	0.0163551442
##	[8,]	0.0155880176	0.0018878058	0.0071229866	0.010782110	0.0048836672
##	[9,]	0.0016934778	0.0090360555	0.0013091533	0.013302677	0.0077280731
##	[10,]	0.0020917713	0.0092558781	0.0030211599	0.008031424	0.0003534668
##	[11,]	0.0155588044	0.0019638252	0.0057855965	0.009710173	0.0100853815
##	[12,]	0.0012425610	0.0066793253	0.0022482897	0.011148335	0.0113854412
##	[13,]	0.0083735376	0.0028422536	0.0044296460	0.004902083	0.0102848478
##	[14,]	0.0005439137	0.0052118997	0.0042981357	0.004477479	0.0192169471
##	[15,]	0.0025115735	0.0021267597	0.0018486403	0.007933713	0.0104715368
##	[16,]	0.0022356751	0.0097702372	0.0035551068	0.009292989	0.0080692189
##	[17,]	0.0021881779	0.0089338931	0.0050609864	0.011081442	0.0068773323
##	[18,]	0.0048171065	0.0001324018	0.0052253052	0.002795819	0.0402205018
##	[19,]	0.0022446084	0.0071776775	0.0074989742	0.020023386	0.0130616427
##	[20,]	0.0051945540	0.0054793328	0.0049054550	0.005730420	0.0106357818
##	[21,]	0.0078281329	0.0016589905	0.0027343097	0.005950931	0.0034461549
##	[22,]	0.0088358396	0.0032635362	0.0062491386	0.006585418	0.0120625712
##	[23,]	0.0102207676	0.0004830364	0.0120857533	0.006291636	0.0047992269
##	[24,]	0.0103609610	0.0070390373	0.0046999422	0.007669073	0.0084028101
##	[25,]	0.0009431420	0.0002749467	0.0176025683	0.004568273	0.0181440602
##	[26,]	0.0092345233	0.0039346611	0.0046761901	0.010565959	0.0090079558
##	[27,]	0.0086998616	0.0053270064	0.0040242161	0.007191054	0.0092804245
##	[28,]	0.0053333267	0.0049248540	0.0333945570	0.014385894	0.0212936130
##	[29,]	0.0089287836	0.0120787020	0.0056760015	0.015360108	0.0081402327
##	[30,]	0.0105460194	0.0033106623	0.0428577291	0.008527296	0.0407344863
##	[31,]	0.0090012903	0.0031099514	0.0092158461	0.010289870	0.0365509720
##	[32,]	0.0043685914	0.0010534425	0.0059112153	0.005990567	0.0375268121
##	[33,]	0.0110965435	0.0019387316	0.0130285512	0.005960087	0.0396639025
##	[34,]	0.0041752559	0.0112873716	0.0018959160	0.016960996	0.0059432251
##	[35,]	0.0030858732	0.0032897806	0.0145953750	0.018518616	0.0327007740
##	[36,]	0.0176845026	0.0027772545	0.0078200735	0.009605482	0.0071149630
##	[37,]	0.0001508922	0.0063287626	0.0006993831	0.015337456	0.0145942628



```

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## [66,] 0.0469870519 3.973332e-02 8.043969e-03 4.070724e-04 0.0057870790
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## [68,] 0.0461954753 2.465678e-02 1.955055e-02 0.000000e+00 0.0007626876
## [69,] 0.0390445225 3.550745e-02 6.717810e-03 2.296595e-04 0.0051946952
## [70,] 0.0095273101 8.744653e-03 5.541138e-03 2.517552e-03 0.0107974785
## [71,] 0.0637235809 5.401691e-02 6.691586e-03 2.901916e-04 0.0004059384
##      [,61]      [,62]      [,63]      [,64]      [,65]
## [1,] 4.058842e-06 0.0002735061 9.166505e-04 8.285442e-04 0.0177783934
## [2,] 2.403808e-03 0.0019290322 0.000000e+00 1.225401e-02 0.0030685682
## [3,] 3.725254e-05 0.0002101760 3.637054e-02 1.306399e-03 0.0070208261
## [4,] 3.447286e-04 0.0133896026 5.153288e-03 3.053943e-03 0.0092971789
## [5,] 0.000000e+00 0.0001363080 3.589308e-02 2.158108e-05 0.0082071855
## [6,] 0.000000e+00 0.0105825249 1.503871e-02 2.913477e-03 0.0129888452
## [7,] 2.712814e-03 0.0030701892 1.577186e-02 5.370434e-03 0.0145722714
## [8,] 1.337486e-04 0.0159385605 0.000000e+00 4.345166e-03 0.0211851036
## [9,] 1.930917e-02 0.0118901020 6.657188e-04 2.740611e-03 0.0008209756
## [10,] 2.117019e-02 0.0087947172 6.914191e-05 1.129931e-02 0.0064349329
## [11,] 1.428590e-03 0.0148951383 6.751239e-05 5.131499e-03 0.0258906099
## [12,] 1.302321e-02 0.0198277527 6.454335e-03 6.344659e-03 0.0116695739
## [13,] 3.264191e-04 0.0085245465 1.864657e-03 3.447549e-03 0.0195290006
## [14,] 0.000000e+00 0.0021722823 5.312998e-02 2.659531e-03 0.0050639768
## [15,] 0.000000e+00 0.0176199270 4.802809e-02 2.977150e-03 0.0124053856
## [16,] 1.478378e-02 0.0068537489 9.701263e-03 8.305399e-03 0.0055406126
## [17,] 1.589594e-02 0.0097258765 5.071929e-03 3.762313e-03 0.0020445603
## [18,] 8.003194e-05 0.0001074237 1.098579e-02 3.804434e-04 0.0049649713
## [19,] 2.040186e-02 0.0137072919 1.073714e-02 5.631376e-03 0.0018158360
## [20,] 2.444244e-04 0.0020495480 3.190848e-03 2.251067e-03 0.0205655150
## [21,] 6.233534e-04 0.0079721909 1.226150e-03 2.597197e-03 0.0201296077
## [22,] 1.601950e-03 0.0090809021 7.422561e-03 6.186639e-03 0.0232410377
## [23,] 1.144448e-03 0.0075132455 1.706609e-03 5.293272e-03 0.0180789418
## [24,] 8.790167e-04 0.0148684836 4.307047e-03 1.363621e-02 0.0162823203
## [25,] 0.000000e+00 0.0045534167 6.478884e-02 1.815322e-03 0.0025208352
## [26,] 6.994880e-03 0.0166700185 4.275376e-03 6.442074e-03 0.0256536034
## [27,] 1.451075e-03 0.0142787220 2.774956e-04 6.169122e-03 0.0302418407
## [28,] 6.621782e-03 0.0079921008 5.911312e-02 1.291565e-02 0.0104493769
## [29,] 2.937442e-03 0.0059746574 6.590080e-03 7.817786e-03 0.0057665686
## [30,] 0.000000e+00 0.0062631021 4.269959e-02 7.644116e-03 0.0158973305
## [31,] 2.940818e-03 0.0026237450 4.896673e-02 3.003251e-03 0.0129383542
## [32,] 0.000000e+00 0.0011858776 7.683718e-02 1.734732e-03 0.0069761911
## [33,] 6.956540e-03 0.0001886268 4.477764e-02 9.645239e-03 0.0135759819
## [34,] 2.298070e-02 0.0100781842 4.932064e-03 1.210109e-02 0.0050060743
## [35,] 2.956898e-02 0.0094920373 6.482134e-02 1.265476e-02 0.0056743279
## [36,] 5.060704e-04 0.0114866296 1.206226e-03 5.698164e-03 0.0268569537
## [37,] 0.000000e+00 0.0553806428 1.844895e-03 6.612660e-03 0.0250431216

```



```

## [38,] 0.000000e+00 0.0115159417 1.466181e-03 4.012054e-03 0.0141451218
## [39,] 3.783208e-03 0.0180639570 8.320689e-04 8.942763e-03 0.0257795605
## [40,] 4.454750e-03 0.0116532234 0.000000e+00 2.200050e-03 0.0262537465
## [41,] 1.237728e-02 0.0245788683 2.857493e-03 1.100012e-02 0.0477582689
## [42,] 8.766844e-03 0.0436333533 1.568158e-02 2.309432e-02 0.0202999946
## [43,] 2.801399e-03 0.0084591385 0.000000e+00 5.661526e-03 0.0166172439
## [44,] 3.397938e-04 0.0005617035 4.421365e-04 3.425762e-03 0.0003068787
## [45,] 1.945109e-02 0.0254836655 1.706690e-02 1.095584e-02 0.0139114635
## [46,] 2.428456e-02 0.0122032061 5.811552e-02 4.439704e-03 0.0008387045
## [47,] 0.000000e+00 0.0275553147 2.073657e-03 6.473983e-04 0.0050987330
## [48,] 3.542893e-03 0.0120325202 7.218802e-03 3.573602e-02 0.0128867397
## [49,] 5.780426e-03 0.0167941177 0.000000e+00 7.329245e-03 0.0300182649
## [50,] 0.000000e+00 0.0127431471 8.521434e-02 4.848356e-03 0.0087382723
## [51,] 1.340707e-02 0.0113707513 2.242314e-02 5.053207e-03 0.0354427017
## [52,] 9.830558e-05 0.0121294471 1.162157e-03 7.792254e-03 0.0372741432
## [53,] 6.381235e-03 0.0085652815 0.000000e+00 6.460552e-02 0.0095477622
## [54,] 9.802071e-03 0.0283226187 5.376893e-03 1.361130e-02 0.0670752028
## [55,] 0.000000e+00 0.0246200851 9.820300e-04 1.519244e-02 0.0456159798
## [56,] 7.879417e-03 0.0346074078 4.890173e-05 1.203381e-02 0.0484802306
## [57,] 9.852270e-05 0.0402540071 0.000000e+00 1.079001e-02 0.0457785460
## [58,] 1.794583e-02 0.0127593820 2.502669e-02 2.631443e-02 0.0352354462
## [59,] 3.923726e-04 0.0002381644 2.343942e-02 2.192273e-03 0.0155509029
## [60,] 1.055704e-01 0.0390109512 1.078339e-02 3.224479e-02 0.0150159709
## [61,] 1.437140e-01 0.0221089859 0.000000e+00 1.426858e-02 0.0021244055
## [62,] 1.707658e-02 0.1363376983 2.341768e-03 2.347968e-02 0.0597551289
## [63,] 0.000000e+00 0.0037788016 3.177698e-01 0.000000e+00 0.0053308639
## [64,] 2.527104e-02 0.0301513517 0.000000e+00 8.126181e-02 0.0249115367
## [65,] 2.310506e-02 0.0733402321 1.295127e-03 2.877578e-02 0.1364587256
## [66,] 1.258693e-03 0.0570406935 7.713776e-03 2.297730e-02 0.0512058648
## [67,] 0.000000e+00 0.0423351158 0.000000e+00 1.834885e-02 0.0553712544
## [68,] 0.000000e+00 0.0275757878 7.347179e-04 1.140033e-02 0.0631763360
## [69,] 1.362792e-03 0.0501715541 1.231288e-03 1.886745e-02 0.0552498123
## [70,] 1.027039e-02 0.0224239617 3.455222e-02 7.311241e-03 0.0110152685
## [71,] 2.914726e-04 0.0503496454 1.687022e-03 2.033506e-02 0.0800564581
##      [,66]      [,67]      [,68]      [,69]      [,70]
## [1,] 0.0107561657 8.449355e-03 0.0083719111 0.0066487673 0.0016925421
## [2,] 0.0028370721 1.984826e-03 0.0012952483 0.0020145105 0.0013842812
## [3,] 0.0078917669 2.334918e-04 0.0002064602 0.0002298993 0.0113620313
## [4,] 0.0117370062 4.973120e-03 0.0109560886 0.0090340899 0.0140819425
## [5,] 0.0065324076 2.753551e-03 0.0024153162 0.0028989054 0.0016556570
## [6,] 0.0089248823 1.811812e-04 0.0094582426 0.0040917766 0.0023931397
## [7,] 0.0047874759 0.000000e+00 0.0000000000 0.0032062339 0.0034113981
## [8,] 0.0157600064 8.346949e-03 0.0154583462 0.0095521102 0.0000000000
## [9,] 0.0005490027 7.211957e-05 0.0009790822 0.0002727051 0.0055027093
## [10,] 0.0065416798 4.619134e-03 0.0004589900 0.0016974319 0.0000000000
## [11,] 0.0190002784 1.258562e-02 0.0167121316 0.0133374220 0.0014879199
## [12,] 0.0199930893 8.384621e-03 0.0029868283 0.0139719679 0.0042948280
## [13,] 0.0237678037 2.061279e-02 0.0152422594 0.0214175153 0.0030083233
## [14,] 0.0154156018 1.023501e-02 0.0068489807 0.0137085347 0.0082392892
## [15,] 0.0086428415 7.329793e-04 0.0014419333 0.0078240058 0.0039309851
## [16,] 0.0089300609 6.278435e-03 0.0022382306 0.0045527081 0.0043326069
## [17,] 0.0037979270 2.177352e-03 0.0016176928 0.0022890045 0.0062290825
## [18,] 0.0057618252 0.000000e+00 0.0000000000 0.0001121838 0.0014210934
## [19,] 0.0022246266 7.186091e-04 0.0009606634 0.0005563287 0.0087151097

```

```

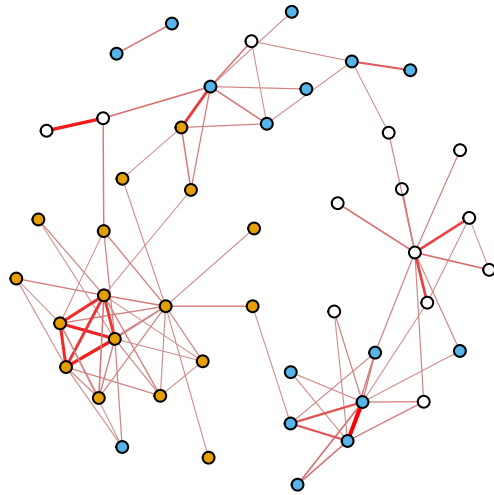
## [20,] 0.0139865478 1.361048e-02 0.0155448231 0.0077033183 0.0014409524
## [21,] 0.0248761354 2.271322e-02 0.0135758971 0.0157334841 0.0088027079
## [22,] 0.0236570193 1.917747e-02 0.0194382811 0.0229521408 0.0042087511
## [23,] 0.0257452723 2.088534e-02 0.0061034194 0.0115834803 0.0036128707
## [24,] 0.0263048434 2.085029e-02 0.0122333241 0.0161282055 0.0055652691
## [25,] 0.0073852270 3.616600e-04 0.0008923056 0.0005697960 0.0062907821
## [26,] 0.0246133301 1.753983e-02 0.0158759887 0.0176206461 0.0053592610
## [27,] 0.0204120072 1.511447e-02 0.0265533377 0.0124101016 0.0023547181
## [28,] 0.0191772964 1.329013e-02 0.0046037593 0.0122727492 0.0210789054
## [29,] 0.0109671032 7.165001e-03 0.0041820747 0.0065591597 0.0205288409
## [30,] 0.0080345384 1.637237e-03 0.0080675762 0.0047565486 0.0042282036
## [31,] 0.0089442680 5.275214e-03 0.0036277260 0.0009928641 0.0069801801
## [32,] 0.0106801097 4.983470e-03 0.0025647120 0.0046731340 0.0131318276
## [33,] 0.0071916257 4.646454e-03 0.0046626797 0.0036369489 0.0013633694
## [34,] 0.0070602808 3.800996e-03 0.0029510022 0.0021299008 0.0061722796
## [35,] 0.0050461220 8.351999e-04 0.0022379673 0.0013549086 0.0104616615
## [36,] 0.0140147932 1.032159e-02 0.0137212313 0.0075132033 0.0025327539
## [37,] 0.0183978457 0.000000e+00 0.0000000000 0.0166895723 0.0016368035
## [38,] 0.0189176537 1.507743e-02 0.0101337028 0.0101511031 0.0029663074
## [39,] 0.0380674392 3.023631e-02 0.0161521063 0.0296656136 0.0071447359
## [40,] 0.0328772339 2.786871e-02 0.0204653427 0.0277650602 0.0091973184
## [41,] 0.0425401365 2.863899e-02 0.0200022468 0.0212644508 0.0141468287
## [42,] 0.0244650257 1.738544e-02 0.0176996386 0.0117497825 0.0298373283
## [43,] 0.0275187276 2.393454e-02 0.0101015983 0.0147608617 0.0067584550
## [44,] 0.0017849301 1.491728e-03 0.0010116397 0.0006647400 0.0013945031
## [45,] 0.0179122293 7.666361e-03 0.0030078002 0.0138372280 0.0263180551
## [46,] 0.0017527501 0.000000e+00 0.0000000000 0.0001106606 0.0097103175
## [47,] 0.0055757863 0.000000e+00 0.0007814246 0.0000000000 0.0021906468
## [48,] 0.0199491210 2.113481e-02 0.0108067752 0.0138146579 0.0161979817
## [49,] 0.0506405366 3.822706e-02 0.0236236744 0.0445748239 0.0107002301
## [50,] 0.0227137896 7.809805e-03 0.0078975125 0.0101868608 0.0138413897
## [51,] 0.0166171567 1.867325e-02 0.0061459473 0.0072489931 0.0035289319
## [52,] 0.0449327706 3.482247e-02 0.0193454903 0.0315131305 0.0059541790
## [53,] 0.0115714676 2.175684e-03 0.0006459502 0.0089448219 0.0018762665
## [54,] 0.0559930395 3.877293e-02 0.0370642785 0.0419955673 0.0124193853
## [55,] 0.0646265928 5.673618e-02 0.0339726866 0.0446016730 0.0102538609
## [56,] 0.0581591644 3.743564e-02 0.0293229410 0.0432148029 0.0083944363
## [57,] 0.0532823167 4.176751e-02 0.0201274469 0.0415845113 0.0064527734
## [58,] 0.0121957301 7.222132e-03 0.0173531457 0.0115009457 0.0061484738
## [59,] 0.0003280273 0.000000e+00 0.0000000000 0.0002422667 0.0023660257
## [60,] 0.0220868432 8.320523e-03 0.0085491062 0.0122769814 0.0145817800
## [61,] 0.0023360639 0.000000e+00 0.0000000000 0.0021888031 0.0002384113
## [62,] 0.0679739085 3.202928e-02 0.0300376148 0.0529849775 0.0157426704
## [63,] 0.0088054757 0.000000e+00 0.0028049253 0.0035006716 0.0242732626
## [64,] 0.0339979167 2.083230e-02 0.0162554989 0.0271787883 0.0072235127
## [65,] 0.0940635639 5.981644e-02 0.0591995011 0.0797638075 0.0144575308
## [66,] 0.1856194150 1.523312e-01 0.0623955031 0.1530723510 0.0481157964
## [67,] 0.1801774045 1.739672e-01 0.0650591545 0.1649546748 0.0482627090
## [68,] 0.0728436317 5.827460e-02 0.0824962821 0.0709872250 0.0138114029
## [69,] 0.1672658245 1.456941e-01 0.0666491783 0.1718490076 0.0409626227
## [70,] 0.0738111414 6.283672e-02 0.0196678518 0.0604121658 0.0691661145
## [71,] 0.1831495497 1.704915e-01 0.0903725490 0.1869456098 0.0347311802
##      [,71]
## [1,] 2.118769e-03

```

```
## [2,] 4.837917e-04
## [3,] 2.448951e-04
## [4,] 4.128458e-03
## [5,] 7.081351e-04
## [6,] 3.871132e-03
## [7,] 0.000000e+00
## [8,] 1.217254e-02
## [9,] 4.883905e-05
## [10,] 4.369626e-03
## [11,] 1.207777e-02
## [12,] 3.617122e-03
## [13,] 1.913856e-02
## [14,] 1.219221e-02
## [15,] 1.382058e-03
## [16,] 5.501977e-03
## [17,] 1.849123e-03
## [18,] 0.000000e+00
## [19,] 8.540699e-04
## [20,] 1.270707e-02
## [21,] 1.552558e-02
## [22,] 2.178946e-02
## [23,] 1.444195e-02
## [24,] 1.497365e-02
## [25,] 5.739792e-04
## [26,] 1.566511e-02
## [27,] 1.850166e-02
## [28,] 5.748901e-03
## [29,] 2.076253e-03
## [30,] 4.831476e-03
## [31,] 6.239973e-03
## [32,] 4.018604e-03
## [33,] 1.106762e-03
## [34,] 3.764048e-03
## [35,] 2.203534e-03
## [36,] 1.030862e-02
## [37,] 9.937566e-04
## [38,] 1.268579e-02
## [39,] 3.308157e-02
## [40,] 2.424496e-02
## [41,] 2.542626e-02
## [42,] 1.613875e-02
## [43,] 1.621083e-02
## [44,] 1.853860e-03
## [45,] 2.184644e-03
## [46,] 1.111633e-04
## [47,] 2.498800e-03
## [48,] 1.546756e-02
## [49,] 4.258507e-02
## [50,] 5.988101e-03
## [51,] 1.197471e-02
## [52,] 3.065006e-02
## [53,] 8.455647e-04
## [54,] 3.908548e-02
## [55,] 4.977955e-02
```

```
## [56,] 3.875790e-02
## [57,] 3.600343e-02
## [58,] 6.759411e-03
## [59,] 2.433674e-04
## [60,] 7.503562e-03
## [61,] 2.882019e-04
## [62,] 3.506798e-02
## [63,] 7.101707e-03
## [64,] 1.945637e-02
## [65,] 6.759162e-02
## [66,] 1.029547e-01
## [67,] 1.205075e-01
## [68,] 6.128992e-02
## [69,] 1.176549e-01
## [70,] 3.087586e-02
## [71,] 1.791191e-01
```

```
vis.weighted.graph(attention.matrices[[1]]**attention.matrices[[2]],cl=extract.clusters(cluster.model))
```



```
##           [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.0183378392 0.0043293477 0.0077631325 0.009654189 0.0093371490
## [2,] 0.0050075594 0.0166226900 0.0015737737 0.006511254 0.0080808639
## [3,] 0.0060734214 0.0008805970 0.0457951799 0.006152062 0.0094306720
## [4,] 0.0079159004 0.0038085933 0.0044462426 0.015859683 0.0118684799
## [5,] 0.0062314447 0.0004413194 0.0041501534 0.003340474 0.0324545733
## [6,] 0.0085365005 0.0007976152 0.0080817200 0.005761127 0.0285761505
## [7,] 0.0135459762 0.0038014065 0.0130536311 0.006169889 0.0163551442
## [8,] 0.0155880176 0.0018878058 0.0071229866 0.010782110 0.0048836672
## [9,] 0.0016934778 0.0090360555 0.0013091533 0.013302677 0.0077280731
## [10,] 0.0020917713 0.0092558781 0.0030211599 0.008031424 0.0003534668
## [11,] 0.0155588044 0.0019638252 0.0057855965 0.009710173 0.0100853815
## [12,] 0.0012425610 0.0066793253 0.0022482897 0.011148335 0.0113854412
## [13,] 0.0083735376 0.0028422536 0.0044296460 0.004902083 0.0102848478
## [14,] 0.0005439137 0.0052118997 0.0042981357 0.004477479 0.0192169471
## [15,] 0.0025115735 0.0021267597 0.0018486403 0.007933713 0.0104715368
## [16,] 0.0022356751 0.0097702372 0.0035551068 0.009292989 0.0080692189
## [17,] 0.0021881779 0.0089338931 0.0050609864 0.011081442 0.0068773323
## [18,] 0.0048171065 0.0001324018 0.0052253052 0.002795819 0.0402205018
## [19,] 0.0022446084 0.0071776775 0.0074989742 0.020023386 0.0130616427
```

```

## [20,] 0.0051945540 0.0054793328 0.0049054550 0.005730420 0.0106357818
## [21,] 0.0078281329 0.0016589905 0.0027343097 0.005950931 0.0034461549
## [22,] 0.0088358396 0.0032635362 0.0062491386 0.006585418 0.0120625712
## [23,] 0.0102207676 0.0004830364 0.0120857533 0.006291636 0.0047992269
## [24,] 0.0103609610 0.0070390373 0.0046999422 0.007669073 0.0084028101
## [25,] 0.0009431420 0.0002749467 0.0176025683 0.004568273 0.0181440602
## [26,] 0.0092345233 0.0039346611 0.0046761901 0.010565959 0.0090079558
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## [20,] 4.567590e-03 9.563066e-04 1.038725e-02 0.0036230117 7.006774e-03
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## [22,] 3.483073e-03 1.307957e-02 4.133221e-03 0.0132410819 7.182469e-03
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## [25,] 1.659477e-02 9.029566e-04 5.128382e-03 0.0015533476 2.203214e-02
## [26,] 6.527355e-03 8.009433e-04 9.231820e-03 0.0124950071 6.629755e-03
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## [29,] 1.353397e-02 1.095643e-03 3.902068e-02 0.0047147615 8.674699e-03
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## [34,] 1.625363e-02 5.342341e-04 3.428590e-02 0.0009077006 4.000361e-03
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## [42,] 3.628747e-02 4.824996e-02 1.530556e-01 0.0081275180 4.238455e-02
## [43,] 5.518603e-03 4.957315e-04 2.599568e-02 0.0188333872 6.580733e-03
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## [55,] 0.0572181809 4.406335e-02 1.058317e-02 1.129489e-03 0.0064073747
## [56,] 0.0588271010 3.952892e-02 2.424239e-02 1.535049e-02 0.0095509110
## [57,] 0.0448087719 5.466710e-02 1.151408e-02 9.731892e-03 0.0105868984
## [58,] 0.0247139876 9.197824e-03 1.146412e-01 9.894164e-02 0.0118595979
## [59,] 0.0098208050 7.775140e-03 1.181988e-01 2.186938e-01 0.0198479449
## [60,] 0.0097995190 1.568333e-02 1.714504e-02 1.865366e-02 0.1499243105
## [61,] 0.0037789642 1.225768e-04 3.584436e-04 4.626154e-04 0.1010379928
## [62,] 0.0424707842 4.445641e-02 1.574821e-02 2.135677e-04 0.0307047507
## [63,] 0.0031171305 0.000000e+00 2.256961e-02 3.066432e-02 0.0196354121
## [64,] 0.0170322428 1.461110e-02 1.557144e-02 1.739474e-04 0.0186528977
## [65,] 0.0751819291 6.665934e-02 4.926754e-02 2.675559e-02 0.0298805056
## [66,] 0.0469870519 3.973332e-02 8.043969e-03 4.070724e-04 0.0057870790
## [67,] 0.0479185859 4.510426e-02 5.014920e-03 0.000000e+00 0.0002180491
## [68,] 0.0461954753 2.465678e-02 1.955055e-02 0.000000e+00 0.0007626876
## [69,] 0.0390445225 3.550745e-02 6.717810e-03 2.296595e-04 0.0051946952
## [70,] 0.0095273101 8.744653e-03 5.541138e-03 2.517552e-03 0.0107974785
## [71,] 0.0637235809 5.401691e-02 6.691586e-03 2.901916e-04 0.0004059384
##      [,61]      [,62]      [,63]      [,64]      [,65]
## [1,] 4.058842e-06 0.0002735061 9.166505e-04 8.285442e-04 0.0177783934
## [2,] 2.403808e-03 0.0019290322 0.000000e+00 1.225401e-02 0.0030685682
## [3,] 3.725254e-05 0.0002101760 3.637054e-02 1.306399e-03 0.0070208261
## [4,] 3.447286e-04 0.0133896026 5.153288e-03 3.053943e-03 0.0092971789
## [5,] 0.000000e+00 0.0001363080 3.589308e-02 2.158108e-05 0.0082071855
## [6,] 0.000000e+00 0.0105825249 1.503871e-02 2.913477e-03 0.0129888452
## [7,] 2.712814e-03 0.0030701892 1.577186e-02 5.370434e-03 0.0145722714
## [8,] 1.337486e-04 0.0159385605 0.000000e+00 4.345166e-03 0.0211851036
## [9,] 1.930917e-02 0.0118901020 6.657188e-04 2.740611e-03 0.0008209756
## [10,] 2.117019e-02 0.0087947172 6.914191e-05 1.129931e-02 0.0064349329
## [11,] 1.428590e-03 0.0148951383 6.751239e-05 5.131499e-03 0.0258906099
## [12,] 1.302321e-02 0.0198277527 6.454335e-03 6.344659e-03 0.0116695739
## [13,] 3.264191e-04 0.0085245465 1.864657e-03 3.447549e-03 0.0195290006
## [14,] 0.000000e+00 0.0021722823 5.312998e-02 2.659531e-03 0.0050639768
## [15,] 0.000000e+00 0.0176199270 4.802809e-02 2.977150e-03 0.0124053856
## [16,] 1.478378e-02 0.0068537489 9.701263e-03 8.305399e-03 0.0055406126
## [17,] 1.589594e-02 0.0097258765 5.071929e-03 3.762313e-03 0.0020445603
## [18,] 8.003194e-05 0.0001074237 1.098579e-02 3.804434e-04 0.0049649713
## [19,] 2.040186e-02 0.0137072919 1.073714e-02 5.631376e-03 0.0018158360

```

```

## [20,] 2.444244e-04 0.0020495480 3.190848e-03 2.251067e-03 0.0205655150
## [21,] 6.233534e-04 0.0079721909 1.226150e-03 2.597197e-03 0.0201296077
## [22,] 1.601950e-03 0.0090809021 7.422561e-03 6.186639e-03 0.0232410377
## [23,] 1.144448e-03 0.0075132455 1.706609e-03 5.293272e-03 0.0180789418
## [24,] 8.790167e-04 0.0148684836 4.307047e-03 1.363621e-02 0.0162823203
## [25,] 0.000000e+00 0.0045534167 6.478884e-02 1.815322e-03 0.0025208352
## [26,] 6.994880e-03 0.0166700185 4.275376e-03 6.442074e-03 0.0256536034
## [27,] 1.451075e-03 0.0142787220 2.774956e-04 6.169122e-03 0.0302418407
## [28,] 6.621782e-03 0.0079921008 5.911312e-02 1.291565e-02 0.0104493769
## [29,] 2.937442e-03 0.0059746574 6.590080e-03 7.817786e-03 0.0057665686
## [30,] 0.000000e+00 0.0062631021 4.269959e-02 7.644116e-03 0.0158973305
## [31,] 2.940818e-03 0.0026237450 4.896673e-02 3.003251e-03 0.0129383542
## [32,] 0.000000e+00 0.0011858776 7.683718e-02 1.734732e-03 0.0069761911
## [33,] 6.956540e-03 0.0001886268 4.477764e-02 9.645239e-03 0.0135759819
## [34,] 2.298070e-02 0.0100781842 4.932064e-03 1.210109e-02 0.0050060743
## [35,] 2.956898e-02 0.0094920373 6.482134e-02 1.265476e-02 0.0056743279
## [36,] 5.060704e-04 0.0114866296 1.206226e-03 5.698164e-03 0.0268569537
## [37,] 0.000000e+00 0.0553806428 1.844895e-03 6.612660e-03 0.0250431216
## [38,] 0.000000e+00 0.0115159417 1.466181e-03 4.012054e-03 0.0141451218
## [39,] 3.783208e-03 0.0180639570 8.320689e-04 8.942763e-03 0.0257795605
## [40,] 4.454750e-03 0.0116532234 0.000000e+00 2.200050e-03 0.0262537465
## [41,] 1.237728e-02 0.0245788683 2.857493e-03 1.100012e-02 0.0477582689
## [42,] 8.766844e-03 0.0436333533 1.568158e-02 2.309432e-02 0.0202999946
## [43,] 2.801399e-03 0.0084591385 0.000000e+00 5.661526e-03 0.0166172439
## [44,] 3.397938e-04 0.0005617035 4.421365e-04 3.425762e-03 0.0003068787
## [45,] 1.945109e-02 0.0254836655 1.706690e-02 1.095584e-02 0.0139114635
## [46,] 2.428456e-02 0.0122032061 5.811552e-02 4.439704e-03 0.0008387045
## [47,] 0.000000e+00 0.0275553147 2.073657e-03 6.473983e-04 0.0050987330
## [48,] 3.542893e-03 0.0120325202 7.218802e-03 3.573602e-02 0.0128867397
## [49,] 5.780426e-03 0.0167941177 0.000000e+00 7.329245e-03 0.0300182649
## [50,] 0.000000e+00 0.0127431471 8.521434e-02 4.848356e-03 0.0087382723
## [51,] 1.340707e-02 0.0113707513 2.242314e-02 5.053207e-03 0.0354427017
## [52,] 9.830558e-05 0.0121294471 1.162157e-03 7.792254e-03 0.0372741432
## [53,] 6.381235e-03 0.0085652815 0.000000e+00 6.460552e-02 0.0095477622
## [54,] 9.802071e-03 0.0283226187 5.376893e-03 1.361130e-02 0.0670752028
## [55,] 0.000000e+00 0.0246200851 9.820300e-04 1.519244e-02 0.0456159798
## [56,] 7.879417e-03 0.0346074078 4.890173e-05 1.203381e-02 0.0484802306
## [57,] 9.852270e-05 0.0402540071 0.000000e+00 1.079001e-02 0.0457785460
## [58,] 1.794583e-02 0.0127593820 2.502669e-02 2.631443e-02 0.0352354462
## [59,] 3.923726e-04 0.0002381644 2.343942e-02 2.192273e-03 0.0155509029
## [60,] 1.055704e-01 0.0390109512 1.078339e-02 3.224479e-02 0.0150159709
## [61,] 1.437140e-01 0.0221089859 0.000000e+00 1.426858e-02 0.0021244055
## [62,] 1.707658e-02 0.1363376983 2.341768e-03 2.347968e-02 0.0597551289
## [63,] 0.000000e+00 0.0037788016 3.177698e-01 0.000000e+00 0.0053308639
## [64,] 2.527104e-02 0.0301513517 0.000000e+00 8.126181e-02 0.0249115367
## [65,] 2.310506e-02 0.0733402321 1.295127e-03 2.877578e-02 0.1364587256
## [66,] 1.258693e-03 0.0570406935 7.713776e-03 2.297730e-02 0.0512058648
## [67,] 0.000000e+00 0.0423351158 0.000000e+00 1.834885e-02 0.0553712544
## [68,] 0.000000e+00 0.0275757878 7.347179e-04 1.140033e-02 0.0631763360
## [69,] 1.362792e-03 0.0501715541 1.231288e-03 1.886745e-02 0.0552498123
## [70,] 1.027039e-02 0.0224239617 3.455222e-02 7.311241e-03 0.0110152685
## [71,] 2.914726e-04 0.0503496454 1.687022e-03 2.033506e-02 0.0800564581
##      [,66]      [,67]      [,68]      [,69]      [,70]
## [1,] 0.0107561657 8.449355e-03 0.0083719111 0.0066487673 0.0016925421

```

```

## [2,] 0.0028370721 1.984826e-03 0.0012952483 0.0020145105 0.0013842812
## [3,] 0.0078917669 2.334918e-04 0.0002064602 0.0002298993 0.0113620313
## [4,] 0.0117370062 4.973120e-03 0.0109560886 0.0090340899 0.0140819425
## [5,] 0.0065324076 2.753551e-03 0.0024153162 0.0028989054 0.0016556570
## [6,] 0.0089248823 1.811812e-04 0.0094582426 0.0040917766 0.0023931397
## [7,] 0.0047874759 0.000000e+00 0.0000000000 0.0032062339 0.0034113981
## [8,] 0.0157600064 8.346949e-03 0.0154583462 0.0095521102 0.0000000000
## [9,] 0.0005490027 7.211957e-05 0.0009790822 0.0002727051 0.0055027093
## [10,] 0.0065416798 4.619134e-03 0.0004589900 0.0016974319 0.0000000000
## [11,] 0.0190002784 1.258562e-02 0.0167121316 0.0133374220 0.0014879199
## [12,] 0.0199930893 8.384621e-03 0.0029868283 0.0139719679 0.0042948280
## [13,] 0.0237678037 2.061279e-02 0.0152422594 0.0214175153 0.0030083233
## [14,] 0.0154156018 1.023501e-02 0.0068489807 0.0137085347 0.0082392892
## [15,] 0.0086428415 7.329793e-04 0.0014419333 0.0078240058 0.0039309851
## [16,] 0.0089300609 6.278435e-03 0.0022382306 0.0045527081 0.0043326069
## [17,] 0.0037979270 2.177352e-03 0.0016176928 0.0022890045 0.0062290825
## [18,] 0.0057618252 0.000000e+00 0.0000000000 0.0001121838 0.0014210934
## [19,] 0.0022246266 7.186091e-04 0.0009606634 0.0005563287 0.0087151097
## [20,] 0.0139865478 1.361048e-02 0.0155448231 0.0077033183 0.0014409524
## [21,] 0.0248761354 2.271322e-02 0.0135758971 0.0157334841 0.0088027079
## [22,] 0.0236570193 1.917747e-02 0.0194382811 0.0229521408 0.0042087511
## [23,] 0.0257452723 2.088534e-02 0.0061034194 0.0115834803 0.0036128707
## [24,] 0.0263048434 2.085029e-02 0.0122333241 0.0161282055 0.0055652691
## [25,] 0.0073852270 3.616600e-04 0.0008923056 0.0005697960 0.0062907821
## [26,] 0.0246133301 1.753983e-02 0.0158759887 0.0176206461 0.0053592610
## [27,] 0.0204120072 1.511447e-02 0.0265533377 0.0124101016 0.0023547181
## [28,] 0.0191772964 1.329013e-02 0.0046037593 0.0122727492 0.0210789054
## [29,] 0.0109671032 7.165001e-03 0.0041820747 0.0065591597 0.0205288409
## [30,] 0.0080345384 1.637237e-03 0.0080675762 0.0047565486 0.0042282036
## [31,] 0.0089442680 5.275214e-03 0.0036277260 0.0009928641 0.0069801801
## [32,] 0.0106801097 4.983470e-03 0.0025647120 0.0046731340 0.0131318276
## [33,] 0.0071916257 4.646454e-03 0.0046626797 0.0036369489 0.0013633694
## [34,] 0.0070602808 3.800996e-03 0.0029510022 0.0021299008 0.0061722796
## [35,] 0.0050461220 8.351999e-04 0.0022379673 0.0013549086 0.0104616615
## [36,] 0.0140147932 1.032159e-02 0.0137212313 0.0075132033 0.0025327539
## [37,] 0.0183978457 0.000000e+00 0.0000000000 0.0166895723 0.0016368035
## [38,] 0.0189176537 1.507743e-02 0.0101337028 0.0101511031 0.0029663074
## [39,] 0.0380674392 3.023631e-02 0.0161521063 0.0296656136 0.0071447359
## [40,] 0.0328772339 2.786871e-02 0.0204653427 0.0277650602 0.0091973184
## [41,] 0.0425401365 2.863899e-02 0.0200022468 0.0212644508 0.0141468287
## [42,] 0.0244650257 1.738544e-02 0.0176996386 0.0117497825 0.0298373283
## [43,] 0.0275187276 2.393454e-02 0.0101015983 0.0147608617 0.0067584550
## [44,] 0.0017849301 1.491728e-03 0.0010116397 0.0006647400 0.0013945031
## [45,] 0.0179122293 7.666361e-03 0.0030078002 0.0138372280 0.0263180551
## [46,] 0.0017527501 0.000000e+00 0.0000000000 0.0001106606 0.0097103175
## [47,] 0.0055757863 0.000000e+00 0.0007814246 0.0000000000 0.0021906468
## [48,] 0.0199491210 2.113481e-02 0.0108067752 0.0138146579 0.0161979817
## [49,] 0.0506405366 3.822706e-02 0.0236236744 0.0445748239 0.0107002301
## [50,] 0.0227137896 7.809805e-03 0.0078975125 0.0101868608 0.0138413897
## [51,] 0.0166171567 1.867325e-02 0.0061459473 0.0072489931 0.0035289319
## [52,] 0.0449327706 3.482247e-02 0.0193454903 0.0315131305 0.0059541790
## [53,] 0.0115714676 2.175684e-03 0.0006459502 0.0089448219 0.0018762665
## [54,] 0.0559930395 3.877293e-02 0.0370642785 0.0419955673 0.0124193853
## [55,] 0.0646265928 5.673618e-02 0.0339726866 0.0446016730 0.0102538609

```

```

## [56,] 0.0581591644 3.743564e-02 0.0293229410 0.0432148029 0.0083944363
## [57,] 0.0532823167 4.176751e-02 0.0201274469 0.0415845113 0.0064527734
## [58,] 0.0121957301 7.222132e-03 0.0173531457 0.0115009457 0.0061484738
## [59,] 0.0003280273 0.000000e+00 0.0000000000 0.0002422667 0.0023660257
## [60,] 0.0220868432 8.320523e-03 0.0085491062 0.0122769814 0.0145817800
## [61,] 0.0023360639 0.000000e+00 0.0000000000 0.0021888031 0.0002384113
## [62,] 0.0679739085 3.202928e-02 0.0300376148 0.0529849775 0.0157426704
## [63,] 0.0088054757 0.000000e+00 0.0028049253 0.0035006716 0.0242732626
## [64,] 0.0339979167 2.083230e-02 0.0162554989 0.0271787883 0.0072235127
## [65,] 0.0940635639 5.981644e-02 0.0591995011 0.0797638075 0.0144575308
## [66,] 0.1856194150 1.523312e-01 0.0623955031 0.1530723510 0.0481157964
## [67,] 0.1801774045 1.739672e-01 0.0650591545 0.1649546748 0.0482627090
## [68,] 0.0728436317 5.827460e-02 0.0824962821 0.0709872250 0.0138114029
## [69,] 0.1672658245 1.456941e-01 0.0666491783 0.1718490076 0.0409626227
## [70,] 0.0738111414 6.283672e-02 0.0196678518 0.0604121658 0.0691661145
## [71,] 0.1831495497 1.704915e-01 0.0903725490 0.1869456098 0.0347311802
##      [,71]
## [1,] 2.118769e-03
## [2,] 4.837917e-04
## [3,] 2.448951e-04
## [4,] 4.128458e-03
## [5,] 7.081351e-04
## [6,] 3.871132e-03
## [7,] 0.000000e+00
## [8,] 1.217254e-02
## [9,] 4.883905e-05
## [10,] 4.369626e-03
## [11,] 1.207777e-02
## [12,] 3.617122e-03
## [13,] 1.913856e-02
## [14,] 1.219221e-02
## [15,] 1.382058e-03
## [16,] 5.501977e-03
## [17,] 1.849123e-03
## [18,] 0.000000e+00
## [19,] 8.540699e-04
## [20,] 1.270707e-02
## [21,] 1.552558e-02
## [22,] 2.178946e-02
## [23,] 1.444195e-02
## [24,] 1.497365e-02
## [25,] 5.739792e-04
## [26,] 1.566511e-02
## [27,] 1.850166e-02
## [28,] 5.748901e-03
## [29,] 2.076253e-03
## [30,] 4.831476e-03
## [31,] 6.239973e-03
## [32,] 4.018604e-03
## [33,] 1.106762e-03
## [34,] 3.764048e-03
## [35,] 2.203534e-03
## [36,] 1.030862e-02
## [37,] 9.937566e-04

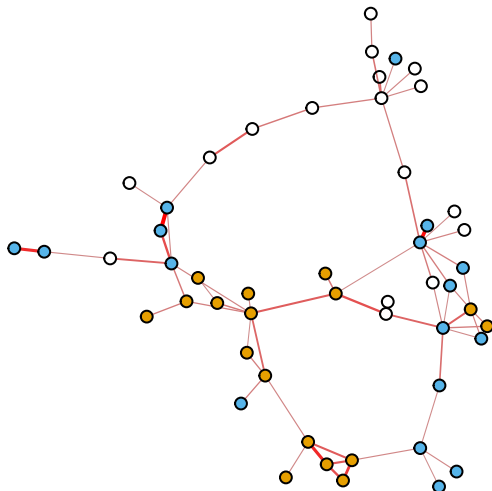
```

```

## [38,] 1.268579e-02
## [39,] 3.308157e-02
## [40,] 2.424496e-02
## [41,] 2.542626e-02
## [42,] 1.613875e-02
## [43,] 1.621083e-02
## [44,] 1.853860e-03
## [45,] 2.184644e-03
## [46,] 1.111633e-04
## [47,] 2.498800e-03
## [48,] 1.546756e-02
## [49,] 4.258507e-02
## [50,] 5.988101e-03
## [51,] 1.197471e-02
## [52,] 3.065006e-02
## [53,] 8.455647e-04
## [54,] 3.908548e-02
## [55,] 4.977955e-02
## [56,] 3.875790e-02
## [57,] 3.600343e-02
## [58,] 6.759411e-03
## [59,] 2.433674e-04
## [60,] 7.503562e-03
## [61,] 2.882019e-04
## [62,] 3.506798e-02
## [63,] 7.101707e-03
## [64,] 1.945637e-02
## [65,] 6.759162e-02
## [66,] 1.029547e-01
## [67,] 1.205075e-01
## [68,] 6.128992e-02
## [69,] 1.176549e-01
## [70,] 3.087586e-02
## [71,] 1.791191e-01

```

```
vis.weighted.graph(attention.matrices[[1]],cl=extract.clusters(cluster.model),threshold=0.1)
```



```

##           [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 0.0007223375 0.0000000000 0.0000000000 0.0000000000 0.0000000000

```



```

## [2,] 0.0000000000 0.0007137301 0.0000000000 0.0000000000 0.0000000000
## [3,] 0.0000000000 0.0000000000 0.0332416929 0.0000000000 0.0000000000
## [4,] 0.0000000000 0.0000000000 0.0000000000 0.0006785400 0.0000000000
## [5,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0005044308
## [6,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [7,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [8,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [9,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [10,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [11,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [12,] 0.0000000000 0.0000000000 0.0000000000 0.0012999298 0.0000000000
## [13,] 0.0000000000 0.0000000000 0.0000000000 0.0001217056 0.0000000000
## [14,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [15,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [16,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [17,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [18,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0004037673
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## [21,] 0.0085614529 0.0000000000 0.0000000000 0.0000000000 0.0000000000
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## [24,] 0.0104585811 0.0096979933 0.0000000000 0.0000000000 0.0000000000
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## [52,] 0.0339104347 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [53,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [54,] 0.0000000000 0.1414691359 0.0000000000 0.0000000000 0.0000000000
## [55,] 0.0950906128 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [56,] 0.0720317066 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [57,] 0.0834333226 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [58,] 0.0000000000 0.1615627855 0.111739017 0.0000000000 0.0000000000
## [59,] 0.0000000000 0.1117390171 0.480380058 0.0000000000 0.0000000000
## [60,] 0.0000000000 0.0000000000 0.0000000000 0.2207691967 0.361801982
## [61,] 0.0000000000 0.0000000000 0.0000000000 0.3618019819 0.443864167
## [62,] 0.1455133408 0.0000000000 0.0000000000 0.1048177183 0.0000000000
## [63,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [64,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.063954182
## [65,] 0.0625233799 0.1158389822 0.0000000000 0.0000000000 0.0000000000
## [66,] 0.0294734146 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [67,] 0.0480520763 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [68,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [69,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [70,] 0.0000000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [71,] 0.0815480873 0.0000000000 0.0000000000 0.0000000000 0.0000000000
##      [,62]      [,63]      [,64]      [,65]      [,66]      [,67]
## [1,] 0.0000000000 0.00000000 0.0001913152 0.0001613221 0.0000000000 0.0000000000
## [2,] 0.0000000000 0.00000000 0.0601787716 0.0000000000 0.0000000000 0.0000000000
## [3,] 0.0000000000 0.00000000 0.0017559134 0.0014806347 0.0000000000 0.0000000000
## [4,] 0.0004868266 0.00000000 0.0003038839 0.0948692560 0.0000000000 0.0000000000
## [5,] 0.0000000000 0.07733165 0.0000000000 0.0002596163 0.0000000000 0.0000000000
## [6,] 0.0000000000 0.00000000 0.0000000000 0.0965325087 0.0000000000 0.0000000000
## [7,] 0.0000000000 0.00000000 0.1078140661 0.0000000000 0.0000000000 0.0000000000
## [8,] 0.0000000000 0.00000000 0.0005912218 0.1431075186 0.0000000000 0.0000000000
## [9,] 0.0000000000 0.00000000 0.0008562538 0.0007220171 0.0000000000 0.0000000000
## [10,] 0.0000000000 0.00000000 0.0570785031 0.0000000000 0.0000000000 0.0000000000
## [11,] 0.0019657114 0.00000000 0.0000000000 0.1080649644 0.003746759 0.0000000000
## [12,] 0.0804343149 0.00000000 0.0011643475 0.0000000000 0.042346135 0.0000000000
## [13,] 0.0000000000 0.00000000 0.0148108592 0.0349114798 0.016042747 0.028055348
## [14,] 0.0000000000 0.11318632 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [15,] 0.0892395899 0.11334884 0.0000000000 0.0019367543 0.0000000000 0.0000000000
## [16,] 0.0000000000 0.00000000 0.0398596413 0.0000000000 0.007536696 0.004497578
## [17,] 0.0000000000 0.00000000 0.0013231752 0.0000000000 0.004040360 0.002411114
## [18,] 0.0000000000 0.00000000 0.0037723375 0.0000000000 0.0000000000 0.0000000000
## [19,] 0.0000000000 0.00000000 0.0028093245 0.0000000000 0.0000000000 0.0000000000

```

```

## [20,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [21,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.029895589 0.0000000000
## [22,] 0.0000000000 0.00000000 0.0193545073 0.0478405915 0.022551974 0.0000000000
## [23,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.062031332 0.0000000000
## [24,] 0.0000000000 0.00000000 0.0055400296 0.0603022128 0.028426358 0.046345003
## [25,] 0.0000000000 0.15359533 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [26,] 0.0341834128 0.00000000 0.0000000000 0.0390831791 0.018423744 0.0000000000
## [27,] 0.0000000000 0.00000000 0.0000000000 0.1014733166 0.0000000000 0.0000000000
## [28,] 0.0000000000 0.13005410 0.0000000000 0.0000000000 0.031617291 0.0000000000
## [29,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [30,] 0.0000000000 0.06153416 0.0000000000 0.0553899854 0.0000000000 0.0000000000
## [31,] 0.0000000000 0.07705190 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [32,] 0.0000000000 0.17496285 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [33,] 0.0000000000 0.10682683 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [34,] 0.0000000000 0.00000000 0.0303772483 0.0000000000 0.0000000000 0.0000000000
## [35,] 0.0000000000 0.09546734 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [36,] 0.0000000000 0.00000000 0.0000000000 0.0958546028 0.0000000000 0.0000000000
## [37,] 0.2261743098 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [38,] 0.0000000000 0.00000000 0.0000000000 0.0600575916 0.0000000000 0.046156999
## [39,] 0.0000000000 0.00000000 0.0000000000 0.0473603457 0.022325587 0.036398586
## [40,] 0.0000000000 0.00000000 0.0000000000 0.0381208807 0.017970119 0.029297642
## [41,] 0.0000000000 0.00000000 0.0000000000 0.0472097807 0.022254609 0.0000000000
## [42,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [43,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.077719435
## [44,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [45,] 0.0872870535 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [46,] 0.0000000000 0.12635395 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [47,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [48,] 0.0000000000 0.00000000 0.0686388910 0.0000000000 0.0000000000 0.0000000000
## [49,] 0.0000000000 0.00000000 0.0000000000 0.0675696954 0.031852242 0.051930401
## [50,] 0.0000000000 0.09839080 0.0000000000 0.0000000000 0.041750092 0.0000000000
## [51,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [52,] 0.0000000000 0.00000000 0.0000000000 0.0508237146 0.023958210 0.039060343
## [53,] 0.0000000000 0.00000000 0.3007820547 0.0000000000 0.0000000000 0.0000000000
## [54,] 0.0000000000 0.00000000 0.0000000000 0.1246124208 0.030760342 0.050150223
## [55,] 0.0000000000 0.00000000 0.0000000000 0.0846531391 0.039905339 0.065059803
## [56,] 0.0533748046 0.00000000 0.0425589718 0.0969123393 0.028767284 0.046900831
## [57,] 0.1455133408 0.00000000 0.0000000000 0.0625233799 0.029473415 0.048052076
## [58,] 0.0000000000 0.00000000 0.0000000000 0.1158389822 0.0000000000 0.0000000000
## [59,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [60,] 0.1048177183 0.00000000 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [61,] 0.0000000000 0.00000000 0.0639541820 0.0000000000 0.0000000000 0.0000000000
## [62,] 0.2381277382 0.00000000 0.0743213147 0.1988000125 0.064171553 0.0000000000
## [63,] 0.0000000000 0.69029272 0.0000000000 0.0000000000 0.0000000000 0.0000000000
## [64,] 0.0743213147 0.00000000 0.0687548742 0.0849743634 0.040056773 0.0000000000
## [65,] 0.1988000125 0.00000000 0.0849743634 0.1433054954 0.033776984 0.0000000000
## [66,] 0.0641715527 0.00000000 0.0400567725 0.0337769836 0.244629413 0.272408336
## [67,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.272408336 0.238006055
## [68,] 0.0000000000 0.00000000 0.0000000000 0.1790782660 0.041176803 0.067132726
## [69,] 0.0854881331 0.00000000 0.0533628799 0.0449970588 0.231952116 0.209744200
## [70,] 0.0000000000 0.00000000 0.0000000000 0.0000000000 0.068929344 0.112379186
## [71,] 0.0000000000 0.00000000 0.0000000000 0.0934553370 0.087195061 0.201957300
##      [,68]      [,69]      [,70]      [,71]
## [1,] 0.000000000 0.000000000 0.000000000 0.000000000

```



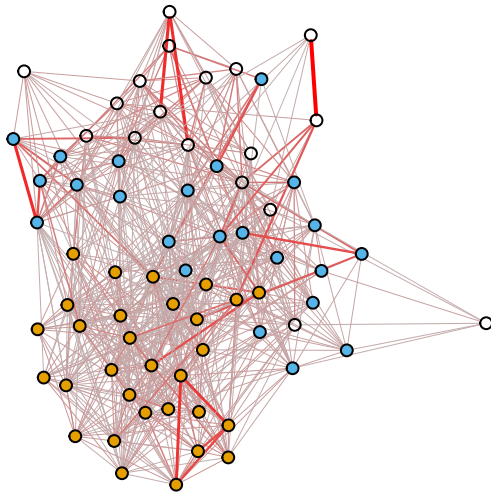
```

## [2,] 0.000000000 0.000000000 0.000000000 0.000000000
## [3,] 0.000000000 0.000000000 0.000000000 0.000000000
## [4,] 0.000000000 0.000000000 0.100160666 0.000000000
## [5,] 0.000000000 0.000000000 0.000000000 0.000000000
## [6,] 0.000000000 0.000000000 0.000000000 0.000000000
## [7,] 0.000000000 0.000000000 0.000000000 0.000000000
## [8,] 0.000000000 0.000000000 0.000000000 0.000000000
## [9,] 0.000000000 0.000000000 0.000000000 0.000000000
## [10,] 0.000000000 0.000000000 0.000000000 0.000000000
## [11,] 0.000000000 0.002113823 0.002111452 0.002670970
## [12,] 0.001196903 0.000000000 0.000000000 0.000000000
## [13,] 0.044639017 0.001796264 0.001794249 0.046657342
## [14,] 0.017566092 0.029438408 0.029405389 0.037197571
## [15,] 0.000000000 0.000000000 0.003952373 0.004999720
## [16,] 0.002537200 0.000000000 0.004247236 0.005372719
## [17,] 0.001360173 0.002279465 0.000000000 0.002880271
## [18,] 0.000000000 0.000000000 0.000000000 0.000000000
## [19,] 0.000000000 0.000000000 0.004834261 0.000000000
## [20,] 0.128344074 0.000000000 0.000000000 0.000000000
## [21,] 0.081187263 0.000000000 0.066956207 0.000000000
## [22,] 0.061244238 0.000000000 0.000000000 0.062397588
## [23,] 0.000000000 0.000000000 0.000000000 0.000000000
## [24,] 0.000000000 0.000000000 0.000000000 0.000000000
## [25,] 0.000000000 0.000000000 0.000000000 0.000000000
## [26,] 0.050033242 0.024543764 0.000000000 0.000000000
## [27,] 0.129903421 0.000000000 0.000000000 0.000000000
## [28,] 0.000000000 0.000000000 0.096953496 0.000000000
## [29,] 0.000000000 0.000000000 0.111212142 0.000000000
## [30,] 0.000000000 0.000000000 0.000000000 0.000000000
## [31,] 0.000000000 0.000000000 0.000000000 0.000000000
## [32,] 0.000000000 0.000000000 0.071896441 0.000000000
## [33,] 0.000000000 0.000000000 0.000000000 0.000000000
## [34,] 0.000000000 0.000000000 0.000000000 0.000000000
## [35,] 0.000000000 0.000000000 0.000000000 0.000000000
## [36,] 0.000000000 0.000000000 0.000000000 0.000000000
## [37,] 0.000000000 0.000000000 0.000000000 0.000000000
## [38,] 0.000000000 0.000000000 0.000000000 0.000000000
## [39,] 0.000000000 0.029741725 0.000000000 0.061771214
## [40,] 0.048801336 0.000000000 0.040247113 0.049720362
## [41,] 0.060436685 0.000000000 0.000000000 0.000000000
## [42,] 0.000000000 0.000000000 0.000000000 0.000000000
## [43,] 0.000000000 0.000000000 0.000000000 0.000000000
## [44,] 0.000000000 0.000000000 0.000000000 0.000000000
## [45,] 0.000000000 0.000000000 0.105364919 0.000000000
## [46,] 0.000000000 0.000000000 0.000000000 0.000000000
## [47,] 0.000000000 0.000000000 0.000000000 0.000000000
## [48,] 0.000000000 0.000000000 0.000000000 0.000000000
## [49,] 0.000000000 0.042432956 0.000000000 0.088129893
## [50,] 0.000000000 0.000000000 0.000000000 0.000000000
## [51,] 0.000000000 0.000000000 0.000000000 0.000000000
## [52,] 0.000000000 0.000000000 0.000000000 0.066288412
## [53,] 0.000000000 0.000000000 0.000000000 0.000000000
## [54,] 0.083535664 0.040978346 0.000000000 0.000000000
## [55,] 0.000000000 0.000000000 0.000000000 0.110411510

```

```
## [56,] 0.000000000 0.000000000 0.000000000 0.079594314
## [57,] 0.000000000 0.000000000 0.000000000 0.081548087
## [58,] 0.000000000 0.000000000 0.000000000 0.000000000
## [59,] 0.000000000 0.000000000 0.000000000 0.000000000
## [60,] 0.000000000 0.000000000 0.000000000 0.000000000
## [61,] 0.000000000 0.000000000 0.000000000 0.000000000
## [62,] 0.000000000 0.085488133 0.000000000 0.000000000
## [63,] 0.000000000 0.000000000 0.000000000 0.000000000
## [64,] 0.000000000 0.053362880 0.000000000 0.000000000
## [65,] 0.179078266 0.044997059 0.000000000 0.093455337
## [66,] 0.041176803 0.231952116 0.068929344 0.087195061
## [67,] 0.067132726 0.209744200 0.112379186 0.201957300
## [68,] 0.223647103 0.054854959 0.000000000 0.113929413
## [69,] 0.054854959 0.183859035 0.091826372 0.307089925
## [70,] 0.000000000 0.091826372 0.308757812 0.000000000
## [71,] 0.113929413 0.307089925 0.000000000 0.482508779
```

```
vis.weighted.graph(attention.matrices[[2]],cl=extract.clusters(cluster.model),threshold=0.002)
```



```
##           [,1]      [,2]      [,3]      [,4]      [,5]      [,6]
## [1,] 0.06766091 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [2,] 0.00000000 0.06452186 0.00000000 0.00000000 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.15834436 0.00000000 0.00000000 0.00000000
## [4,] 0.00000000 0.00000000 0.00000000 0.05781920 0.00000000 0.00000000
## [5,] 0.00000000 0.00000000 0.00000000 0.00000000 0.05632285 0.00000000
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.07004377
## [7,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [9,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [10,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [11,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [12,] 0.00000000 0.00000000 0.00000000 0.02759352 0.00000000 0.00000000
## [13,] 0.00000000 0.00000000 0.00000000 0.01068734 0.00000000 0.00000000
## [14,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [15,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [16,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [17,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04444711 0.00000000
## [19,] 0.01764961 0.03079746 0.08180568 0.02696227 0.00000000 0.03338643
```

```

## [20,] 0.02856401 0.03454131 0.00000000 0.03023992 0.03060867 0.00000000
## [21,] 0.03473884 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [22,] 0.03485043 0.03594319 0.00000000 0.03146722 0.00000000 0.00000000
## [23,] 0.03532267 0.00000000 0.09573139 0.03155204 0.03193679 0.00000000
## [24,] 0.03294519 0.03554131 0.00000000 0.00000000 0.00000000 0.03852908
## [25,] 0.00000000 0.00000000 0.07778016 0.00000000 0.00000000 0.00000000
## [26,] 0.03198013 0.03533060 0.00000000 0.03093092 0.03130810 0.03830066
## [27,] 0.03530732 0.03603695 0.00000000 0.03154930 0.03193402 0.03906637
## [28,] 0.00000000 0.00000000 0.08205633 0.02704489 0.05464289 0.03348873
## [29,] 0.02162772 0.03267211 0.00000000 0.02860348 0.00000000 0.00000000
## [30,] 0.01800528 0.00000000 0.08345425 0.00000000 0.00000000 0.05924274
## [31,] 0.00000000 0.00000000 0.00000000 0.02830483 0.05407013 0.03504887
## [32,] 0.00000000 0.00000000 0.00000000 0.00000000 0.05816565 0.03362812
## [33,] 0.00000000 0.00000000 0.00000000 0.00000000 0.02889912 0.00000000
## [34,] 0.00000000 0.03234619 0.00000000 0.00000000 0.00000000 0.00000000
## [35,] 0.00000000 0.00000000 0.00000000 0.02630182 0.06576300 0.03256861
## [36,] 0.03495154 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [39,] 0.03589457 0.00000000 0.00000000 0.00000000 0.03203955 0.00000000
## [40,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [41,] 0.05520730 0.00000000 0.01047619 0.04514661 0.00000000 0.00000000
## [42,] 0.00000000 0.03276017 0.00000000 0.02868058 0.06867799 0.00000000
## [43,] 0.03318747 0.03559343 0.00000000 0.00000000 0.00000000 0.00000000
## [44,] 0.00000000 0.02583688 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.02837024 0.00000000 0.00000000
## [46,] 0.00000000 0.00000000 0.00000000 0.04735427 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.03319238 0.00000000 0.00000000 0.00000000 0.00000000
## [49,] 0.00000000 0.00000000 0.02175442 0.00000000 0.00000000 0.00000000
## [50,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06845687 0.07526563
## [51,] 0.00000000 0.00000000 0.00000000 0.00000000 0.12543166 0.09748866
## [52,] 0.02537919 0.00000000 0.01316064 0.01711183 0.01412668 0.00000000
## [53,] 0.00000000 0.03204903 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.03620089 0.00000000 0.01562870 0.02116013 0.04956280 0.01896436
## [55,] 0.00000000 0.00000000 0.02192372 0.00000000 0.00000000 0.00000000
## [56,] 0.03063982 0.00000000 0.00000000 0.00000000 0.01705487 0.00000000
## [57,] 0.02792028 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [58,] 0.05799411 0.00000000 0.03784389 0.00000000 0.03129015 0.07929686
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.12526011 0.03574112
## [60,] 0.00000000 0.00000000 0.00000000 0.05002474 0.00000000 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.10023875 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000 0.00000000 0.04331530 0.00000000 0.00000000
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.02540161 0.00000000
## [64,] 0.02589050 0.03509807 0.01946648 0.02156671 0.00000000 0.00000000
## [65,] 0.03547477 0.00000000 0.01806656 0.03174574 0.01974612 0.03930962
## [66,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [67,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [68,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [69,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [70,] 0.00000000 0.00000000 0.00000000 0.03025956 0.00000000 0.00000000
## [71,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
##      [,7]      [,8]      [,9]     [,10]     [,11]     [,12]
## [1,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000

```

```

## [2,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [4,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.02759352
## [5,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [7,] 0.16152604 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [8,] 0.00000000 0.09502492 0.00000000 0.00000000 0.00000000 0.02523110
## [9,] 0.00000000 0.00000000 0.08902676 0.00000000 0.00000000 0.00000000
## [10,] 0.00000000 0.00000000 0.00000000 0.09953585 0.00000000 0.00000000
## [11,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06865797 0.01801632
## [12,] 0.00000000 0.02523110 0.00000000 0.00000000 0.01801632 0.06847327
## [13,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00943780
## [14,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [15,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [16,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [17,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [19,] 0.04947286 0.00000000 0.04249918 0.00000000 0.00000000 0.03345342
## [20,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [21,] 0.00000000 0.00000000 0.04956828 0.00000000 0.03418881 0.00000000
## [22,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [23,] 0.00000000 0.04844651 0.00000000 0.00000000 0.03476340 0.00000000
## [24,] 0.00000000 0.04518571 0.00000000 0.05366491 0.03242357 0.05397414
## [25,] 0.00000000 0.00000000 0.04040787 0.00000000 0.00000000 0.03180724
## [26,] 0.00000000 0.04386209 0.04875474 0.00000000 0.03147379 0.05028025
## [27,] 0.00000000 0.00000000 0.04972946 0.05441328 0.03474829 0.02576623
## [28,] 0.07899094 0.00000000 0.00000000 0.00000000 0.00000000 0.03355592
## [29,] 0.00000000 0.00000000 0.04508613 0.00000000 0.00000000 0.03548975
## [30,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [31,] 0.00000000 0.00000000 0.00000000 0.02636463 0.00000000 0.02521125
## [32,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [33,] 0.08338980 0.00000000 0.00000000 0.05571210 0.00000000 0.00000000
## [34,] 0.00000000 0.00000000 0.00000000 0.04884049 0.00000000 0.03513571
## [35,] 0.07682063 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [36,] 0.00000000 0.04793749 0.00000000 0.00000000 0.00000000 0.02473060
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [39,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06358467 0.01487096
## [40,] 0.00000000 0.00000000 0.00000000 0.00000000 0.03510415 0.00000000
## [41,] 0.00000000 0.04792700 0.00000000 0.00000000 0.03439062 0.01107809
## [42,] 0.00000000 0.00000000 0.04520765 0.00000000 0.07768944 0.10369901
## [43,] 0.00000000 0.04551800 0.02997087 0.00000000 0.07937896 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.03901189 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.04471848 0.00000000 0.00000000 0.04788314
## [46,] 0.04529367 0.00000000 0.00000000 0.00000000 0.05155280 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.04580408 0.05011819 0.13019714 0.03605489
## [49,] 0.00000000 0.04956344 0.00000000 0.00000000 0.03556487 0.02300430
## [50,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.03363996
## [51,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [52,] 0.00000000 0.04886420 0.00000000 0.00000000 0.02616750 0.01391677
## [53,] 0.00000000 0.00000000 0.00000000 0.04839180 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06798588 0.01676268
## [55,] 0.00000000 0.00000000 0.00000000 0.05496814 0.00000000 0.00000000

```

```

## [56,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06712906 0.01664076
## [57,] 0.00000000 0.02858975 0.01674406 0.00000000 0.02878751 0.01610511
## [58,] 0.09028922 0.00000000 0.00000000 0.00000000 0.05979546 0.04001817
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.10864653 0.00000000
## [60,] 0.00000000 0.05438502 0.04371075 0.04782770 0.05446005 0.03440712
## [61,] 0.09587692 0.00000000 0.00000000 0.00000000 0.10912614 0.00000000
## [62,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06623797 0.07387142
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.11037464 0.02651131 0.02106727 0.05299565 0.00000000 0.02058490
## [65,] 0.00000000 0.04995196 0.02127456 0.00000000 0.07242031 0.00000000
## [66,] 0.00000000 0.00000000 0.00000000 0.00000000 0.09123053 0.04009227
## [67,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [68,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.02678577
## [69,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06737891 0.00000000
## [70,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04849748 0.00000000
## [71,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06768502 0.00000000
##      [,13]      [,14]      [,15]      [,16]      [,17]      [,18]
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## [2,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [4,] 0.010687340 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [5,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04444711
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [7,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [9,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [10,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [11,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [12,] 0.009437800 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [13,] 0.032060318 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [14,] 0.00000000 0.08722492 0.00000000 0.00000000 0.00000000 0.00000000
## [15,] 0.00000000 0.00000000 0.05501557 0.00000000 0.00000000 0.00000000
## [16,] 0.00000000 0.00000000 0.00000000 0.06566358 0.00000000 0.00000000
## [17,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06122018 0.00000000
## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.08734819
## [19,] 0.009221897 0.00000000 0.02819327 0.00000000 0.02974406 0.00000000
## [20,] 0.013383268 0.05039978 0.03162055 0.00000000 0.00000000 0.00000000
## [21,] 0.016276401 0.00000000 0.00000000 0.00000000 0.03469154 0.00000000
## [22,] 0.00000000 0.00000000 0.03290389 0.03640377 0.03471380 0.00000000
## [23,] 0.016549947 0.00000000 0.00000000 0.00000000 0.00000000 0.05040576
## [24,] 0.039441168 0.00000000 0.00000000 0.00000000 0.03432566 0.00000000
## [25,] 0.00000000 0.04272578 0.00000000 0.00000000 0.02828041 0.00000000
## [26,] 0.014983847 0.00000000 0.03234310 0.03578333 0.03412217 0.00000000
## [27,] 0.016542751 0.00000000 0.03298971 0.03649873 0.00000000 0.00000000
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## [29,] 0.00000000 0.00000000 0.02990940 0.03309077 0.03155460 0.00000000
## [30,] 0.00000000 0.04584264 0.00000000 0.00000000 0.03034347 0.00000000
## [31,] 0.038325705 0.00000000 0.02959712 0.00000000 0.00000000 0.04521820
## [32,] 0.00000000 0.04526236 0.02839736 0.03141790 0.00000000 0.00000000
## [33,] 0.010040689 0.00000000 0.00000000 0.00000000 0.00000000 0.04561142
## [34,] 0.00000000 0.00000000 0.00000000 0.03276067 0.03123982 0.00000000
## [35,] 0.00000000 0.04383630 0.02750266 0.00000000 0.00000000 0.04201831
## [36,] 0.016376058 0.00000000 0.03292296 0.00000000 0.00000000 0.00000000
## [37,] 0.00000000 0.00000000 0.02792718 0.00000000 0.00000000 0.00000000

```

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## [38,] 0.015016739 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [39,] 0.044535175 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [40,] 0.000000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [41,] 0.016372474 0.00000000 0.01056147 0.00000000 0.00000000 0.00000000
## [42,] 0.010270671 0.04780089 0.00000000 0.03317996 0.03163965 0.00000000
## [43,] 0.015549527 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [45,] 0.000000000 0.00000000 0.00000000 0.00000000 0.07944731 0.00000000
## [46,] 0.000000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [47,] 0.000000000 0.00000000 0.02667408 0.00000000 0.00000000 0.00000000
## [48,] 0.010966301 0.04843153 0.00000000 0.03361771 0.03205708 0.00000000
## [49,] 0.016931504 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [51,] 0.011188591 0.00000000 0.00000000 0.00000000 0.00000000 0.04660966
## [52,] 0.042359021 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [53,] 0.000000000 0.00000000 0.00000000 0.03245971 0.00000000 0.00000000
## [54,] 0.048699930 0.00000000 0.01575593 0.00000000 0.00000000 0.00000000
## [55,] 0.062273748 0.00000000 0.00000000 0.03687091 0.00000000 0.00000000
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## [57,] 0.044757076 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [59,] 0.000000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04611130
## [60,] 0.000000000 0.00000000 0.00000000 0.03208132 0.03059201 0.00000000
## [61,] 0.000000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.000000000 0.00000000 0.03333781 0.00000000 0.00000000 0.00000000
## [63,] 0.000000000 0.04182592 0.02624135 0.00000000 0.00000000 0.00000000
## [64,] 0.040680684 0.00000000 0.00000000 0.03554782 0.02069963 0.02039449
## [65,] 0.052940428 0.00000000 0.01821363 0.00000000 0.00000000 0.00000000
## [66,] 0.018644147 0.00000000 0.00000000 0.05438724 0.04859240 0.00000000
## [67,] 0.092713110 0.00000000 0.00000000 0.04545330 0.04061035 0.00000000
## [68,] 0.068214729 0.02478149 0.00000000 0.03082490 0.02754058 0.00000000
## [69,] 0.066088587 0.03092840 0.00000000 0.00000000 0.03588824 0.00000000
## [70,] 0.048310298 0.04032241 0.04053692 0.04373112 0.00000000 0.00000000
## [71,] 0.084307104 0.03126602 0.03143235 0.04035055 0.03605129 0.00000000
##      [,19]      [,20]      [,21]      [,22]      [,23]      [,24]
## [1,] 0.017649606 0.02856401 0.03473884 0.03485043 0.03532267 0.03294519
## [2,] 0.030797455 0.03454131 0.00000000 0.03594319 0.00000000 0.03554131
## [3,] 0.081805684 0.00000000 0.00000000 0.00000000 0.09573139 0.00000000
## [4,] 0.026962275 0.03023992 0.00000000 0.03146722 0.03155204 0.00000000
## [5,] 0.000000000 0.03060867 0.00000000 0.00000000 0.03193679 0.00000000
## [6,] 0.033386428 0.00000000 0.00000000 0.00000000 0.00000000 0.03852908
## [7,] 0.049472861 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [10,] 0.000000000 0.00000000 0.00000000 0.00000000 0.00000000 0.05366491
## [11,] 0.000000000 0.00000000 0.03418881 0.00000000 0.03476340 0.03242357
## [12,] 0.033453420 0.00000000 0.00000000 0.00000000 0.00000000 0.05397414
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## [16,] 0.000000000 0.00000000 0.00000000 0.03640377 0.00000000 0.00000000
## [17,] 0.029744063 0.00000000 0.03469154 0.03471380 0.00000000 0.03432566
## [18,] 0.000000000 0.00000000 0.00000000 0.00000000 0.05040576 0.00000000
## [19,] 0.096479066 0.02423521 0.01541191 0.07161096 0.00000000 0.01501620

```

```

## [20,] 0.024235213 0.05436268 0.05310956 0.02995615 0.03036208 0.04835992
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## [25,] 0.000000000 0.02304264 0.00000000 0.00000000 0.00000000 0.00000000
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## [61,] 0.000000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.000000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [63,] 0.000000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.020113993 0.00000000 0.00000000 0.02554968 0.00000000 0.02521301
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## [70,] 0.041547086 0.00000000 0.02332493 0.00000000 0.00000000 0.00000000
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##      [,25]      [,26]      [,27]      [,28]      [,29]      [,30]
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```

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## [2,] 0.00000000 0.03533060 0.03603695 0.00000000 0.03267211 0.00000000
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## [9,] 0.04040787 0.04875474 0.04972946 0.00000000 0.04508613 0.00000000
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## [11,] 0.00000000 0.03147379 0.03474829 0.00000000 0.00000000 0.00000000
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## [14,] 0.04272578 0.00000000 0.00000000 0.045074742 0.00000000 0.04584264
## [15,] 0.00000000 0.03234310 0.03298971 0.028279649 0.02990940 0.00000000
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## [18,] 0.00000000 0.00000000 0.00000000 0.043205384 0.00000000 0.00000000
## [19,] 0.00000000 0.01163045 0.00000000 0.074812792 0.08939338 0.02400748
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## [25,] 0.11889358 0.00000000 0.00000000 0.087840132 0.00000000 0.08660956
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## [30,] 0.08660956 0.03940604 0.00000000 0.051039025 0.00000000 0.04898258
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## [39,] 0.00000000 0.01842453 0.00000000 0.00000000 0.00000000 0.01482360
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## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.02271385
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```



```

## [56,] 0.00000000 0.01853474 0.05039138 0.00000000 0.00000000 0.00000000
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## [67,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [68,] 0.00000000 0.01917010 0.05211878 0.00000000 0.00000000 0.00000000
## [69,] 0.00000000 0.01994596 0.00000000 0.00000000 0.00000000 0.00000000
## [70,] 0.00000000 0.00000000 0.00000000 0.071331464 0.04289119 0.00000000
## [71,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
##      [,31]      [,32]      [,33]      [,34]      [,35]      [,36]
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## [2,] 0.00000000 0.00000000 0.00000000 0.03234619 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [4,] 0.02830483 0.00000000 0.00000000 0.00000000 0.02630182 0.00000000
## [5,] 0.05407013 0.05816565 0.02889912 0.00000000 0.06576300 0.00000000
## [6,] 0.03504887 0.03362812 0.00000000 0.00000000 0.03256861 0.00000000
## [7,] 0.00000000 0.00000000 0.08338980 0.00000000 0.07682063 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04793749
## [9,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [10,] 0.02636463 0.00000000 0.05571210 0.04884049 0.00000000 0.00000000
## [11,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [12,] 0.02521125 0.00000000 0.00000000 0.03513571 0.00000000 0.02473060
## [13,] 0.03832570 0.00000000 0.01004069 0.00000000 0.00000000 0.01637606
## [14,] 0.00000000 0.04526236 0.00000000 0.00000000 0.04383630 0.00000000
## [15,] 0.02959712 0.02839736 0.00000000 0.00000000 0.02750266 0.03292296
## [16,] 0.00000000 0.03141790 0.00000000 0.03276067 0.00000000 0.00000000
## [17,] 0.00000000 0.00000000 0.00000000 0.03123982 0.00000000 0.00000000
## [18,] 0.04521820 0.00000000 0.04561142 0.00000000 0.04201831 0.00000000
## [19,] 0.00000000 0.02972892 0.00000000 0.02598124 0.08498864 0.00000000
## [20,] 0.02544198 0.00000000 0.00000000 0.00000000 0.02364156 0.00000000
## [21,] 0.01670360 0.00000000 0.01744262 0.00000000 0.00000000 0.00000000
## [22,] 0.04569636 0.05011837 0.01769558 0.03032228 0.00000000 0.00000000
## [23,] 0.00000000 0.00000000 0.03665048 0.00000000 0.00000000 0.00000000
## [24,] 0.04419297 0.00000000 0.01590099 0.00000000 0.00000000 0.04495615
## [25,] 0.00000000 0.00000000 0.06620751 0.00000000 0.06099192 0.00000000
## [26,] 0.01220958 0.03410479 0.01231575 0.02980549 0.01134556 0.01794048
## [27,] 0.00000000 0.00000000 0.00000000 0.03040137 0.00000000 0.00000000
## [28,] 0.05245126 0.02982001 0.00000000 0.02606085 0.06382513 0.00000000
## [29,] 0.00000000 0.00000000 0.00000000 0.06770208 0.00000000 0.04462884
## [30,] 0.05033385 0.05450930 0.07852723 0.00000000 0.06211456 0.02465183
## [31,] 0.05172230 0.05602207 0.08073422 0.00000000 0.06385054 0.00000000
## [32,] 0.05602207 0.05988825 0.03148063 0.00000000 0.06720604 0.00000000
## [33,] 0.08073422 0.03148063 0.11024682 0.02751213 0.04016575 0.00000000
## [34,] 0.00000000 0.00000000 0.02751213 0.05457556 0.00000000 0.03033985
## [35,] 0.06385054 0.06720604 0.04016575 0.00000000 0.07400326 0.00000000
## [36,] 0.00000000 0.00000000 0.00000000 0.03033985 0.00000000 0.09538791
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000

```

```

## [38,] 0.00000000 0.00000000 0.02543774 0.00000000 0.02343385 0.04373505
## [39,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [40,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [41,] 0.01229203 0.00000000 0.01283586 0.00000000 0.00000000 0.04768351
## [42,] 0.00000000 0.00000000 0.00000000 0.02763703 0.00000000 0.00000000
## [43,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04528675
## [44,] 0.00000000 0.00000000 0.00000000 0.02179642 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.02733798 0.00000000 0.00000000
## [46,] 0.02434861 0.00000000 0.00000000 0.02567972 0.08057326 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.02286274
## [48,] 0.00000000 0.00000000 0.00000000 0.02800165 0.00000000 0.00000000
## [49,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [50,] 0.04172515 0.06992847 0.00000000 0.00000000 0.03814228 0.00000000
## [51,] 0.02665695 0.03216961 0.05632983 0.00000000 0.04104481 0.00000000
## [52,] 0.02887755 0.00000000 0.00000000 0.00000000 0.00000000 0.04861596
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000 0.06121753 0.00000000 0.00000000 0.04939878
## [55,] 0.02911945 0.00000000 0.00000000 0.00000000 0.00000000 0.05068651
## [56,] 0.00000000 0.00000000 0.00000000 0.03053823 0.00000000 0.00000000
## [57,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [58,] 0.02824432 0.03408524 0.05968415 0.00000000 0.00000000 0.00000000
## [59,] 0.02637193 0.03182564 0.05572754 0.00000000 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000 0.00000000 0.02672192 0.08452438 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.02740403 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [63,] 0.02292898 0.19890752 0.04845210 0.00000000 0.03530469 0.00000000
## [64,] 0.00000000 0.00000000 0.00000000 0.02960932 0.00000000 0.00000000
## [65,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04969819
## [66,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [67,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [68,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [69,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [70,] 0.00000000 0.03336454 0.00000000 0.00000000 0.00000000 0.00000000
## [71,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
##      [,37]      [,38]      [,39]      [,40]      [,41]      [,42]
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## [2,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.03276017
## [3,] 0.00000000 0.00000000 0.00000000 0.00000000 0.01047619 0.00000000
## [4,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04514661 0.02868058
## [5,] 0.00000000 0.00000000 0.03203955 0.00000000 0.00000000 0.06867799
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [7,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04792700 0.00000000
## [9,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04520765
## [10,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [11,] 0.00000000 0.00000000 0.06358467 0.03510415 0.03439062 0.07768944
## [12,] 0.00000000 0.00000000 0.01487096 0.00000000 0.01107809 0.10369901
## [13,] 0.00000000 0.01501674 0.04453517 0.00000000 0.01637247 0.01027067
## [14,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04780089
## [15,] 0.02792718 0.00000000 0.00000000 0.00000000 0.01056147 0.00000000
## [16,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.03317996
## [17,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.03163965
## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [19,] 0.11801453 0.00000000 0.00000000 0.00000000 0.00000000 0.11786924

```

```

## [20,] 0.00000000 0.00000000 0.00000000 0.01749633 0.00000000 0.02577972
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## [24,] 0.00000000 0.05722251 0.00000000 0.02017994 0.04425093 0.01597318
## [25,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [26,] 0.00000000 0.01645131 0.01842453 0.03789751 0.03709168 0.01237166
## [27,] 0.00000000 0.00000000 0.00000000 0.07140364 0.02114800 0.03059097
## [28,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.02810954
## [29,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04462688 0.04065308
## [30,] 0.00000000 0.00000000 0.01482360 0.00000000 0.00000000 0.02553748
## [31,] 0.00000000 0.00000000 0.00000000 0.00000000 0.01229203 0.00000000
## [32,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [33,] 0.00000000 0.02543774 0.00000000 0.00000000 0.01283586 0.00000000
## [34,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.02763703
## [35,] 0.00000000 0.02343385 0.00000000 0.00000000 0.00000000 0.00000000
## [36,] 0.00000000 0.04373505 0.00000000 0.00000000 0.04768351 0.00000000
## [37,] 0.23380150 0.00000000 0.00000000 0.00000000 0.00000000 0.12553558
## [38,] 0.00000000 0.06758296 0.00000000 0.05723843 0.05603939 0.02555322
## [39,] 0.00000000 0.00000000 0.05815867 0.05088304 0.04980890 0.09589437
## [40,] 0.00000000 0.05723843 0.05088304 0.04369658 0.04276878 0.01342714
## [41,] 0.00000000 0.05603939 0.04980890 0.04276878 0.04186064 0.01312987
## [42,] 0.12553558 0.02555322 0.09589437 0.01342714 0.01312987 0.14159395
## [43,] 0.00000000 0.00000000 0.00000000 0.06810018 0.06667909 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.00000000 0.05463445 0.07003092
## [46,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [47,] 0.25573751 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.02589035 0.14990646 0.00000000 0.00000000 0.11864629
## [49,] 0.00000000 0.00000000 0.00000000 0.02213503 0.06591816 0.00000000
## [50,] 0.03937094 0.00000000 0.00000000 0.00000000 0.04641180 0.04227906
## [51,] 0.00000000 0.02599447 0.01934586 0.01462716 0.01430332 0.00000000
## [52,] 0.00000000 0.03756266 0.05579041 0.02182275 0.04755408 0.01644469
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000 0.00000000 0.02217415 0.02168322 0.00000000
## [55,] 0.00000000 0.03916246 0.07716715 0.02275219 0.02224846 0.00000000
## [56,] 0.00000000 0.03807091 0.06176253 0.02211803 0.02162834 0.00000000
## [57,] 0.00000000 0.03717611 0.05818950 0.02159818 0.04995919 0.00000000
## [58,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.13954912 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [65,] 0.00000000 0.03839884 0.02950525 0.02230855 0.02181464 0.00000000
## [66,] 0.00000000 0.00000000 0.03223705 0.02437402 0.02383439 0.00000000
## [67,] 0.00000000 0.04034414 0.03100000 0.02343870 0.00000000 0.00000000
## [68,] 0.00000000 0.00000000 0.00000000 0.02287623 0.02236976 0.00000000
## [69,] 0.00000000 0.00000000 0.03148060 0.00000000 0.00000000 0.00000000
## [70,] 0.00000000 0.00000000 0.00000000 0.01755323 0.00000000 0.00000000
## [71,] 0.00000000 0.00000000 0.03098193 0.02342504 0.00000000 0.00000000
##      [,43]      [,44]      [,45]      [,46]      [,47]      [,48]
## [1,] 0.03318747 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000

```

```

## [2,] 0.03559343 0.02583688 0.00000000 0.00000000 0.00000000 0.03319238
## [3,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [4,] 0.00000000 0.00000000 0.02837024 0.04735427 0.00000000 0.00000000
## [5,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [8,] 0.04551800 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [9,] 0.02997087 0.00000000 0.04471848 0.00000000 0.00000000 0.04580408
## [10,] 0.00000000 0.03901189 0.00000000 0.00000000 0.00000000 0.05011819
## [11,] 0.07937896 0.00000000 0.00000000 0.05155280 0.00000000 0.13019714
## [12,] 0.00000000 0.00000000 0.04788314 0.00000000 0.00000000 0.03605489
## [13,] 0.01554953 0.00000000 0.00000000 0.00000000 0.00000000 0.01096630
## [14,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04843153
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## [20,] 0.02852673 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [21,] 0.02701253 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [22,] 0.00000000 0.00000000 0.00000000 0.00000000 0.01448636 0.00000000
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## [26,] 0.01703499 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [28,] 0.00000000 0.00000000 0.07473649 0.07041863 0.00000000 0.00000000
## [29,] 0.00000000 0.00000000 0.04021320 0.00000000 0.00000000 0.04118942
## [30,] 0.00000000 0.00000000 0.00000000 0.02372887 0.02271385 0.00000000
## [31,] 0.00000000 0.00000000 0.00000000 0.02434861 0.00000000 0.00000000
## [32,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [33,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [34,] 0.00000000 0.02179642 0.02733798 0.02567972 0.00000000 0.02800165
## [35,] 0.00000000 0.00000000 0.00000000 0.08057326 0.00000000 0.00000000
## [36,] 0.04528675 0.00000000 0.00000000 0.00000000 0.02286274 0.00000000
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.25573751 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.02589035
## [39,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.14990646
## [40,] 0.06810018 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [41,] 0.06667909 0.00000000 0.05463445 0.00000000 0.00000000 0.00000000
## [42,] 0.00000000 0.00000000 0.07003092 0.00000000 0.00000000 0.11864629
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## [44,] 0.00000000 1.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [48,] 0.03134724 0.00000000 0.05042614 0.04759894 0.00000000 0.24042325
## [49,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [50,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [51,] 0.03198266 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [52,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [55,] 0.09327306 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000

```

```

## [56,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [57,] 0.04722496 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [58,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000 0.04812158 0.09153726 0.00000000 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000 0.05532530 0.00000000 0.00000000 0.00000000
## [63,] 0.00000000 0.00000000 0.00000000 0.04110688 0.00000000 0.00000000
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## [65,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [66,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [67,] 0.05124932 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [68,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [69,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [70,] 0.00000000 0.00000000 0.05250953 0.00000000 0.00000000 0.00000000
## [71,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
##      [,49]      [,50]      [,51]      [,52]      [,53]      [,54]
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## [9,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [25,] 0.00000000 0.06287210 0.00000000 0.00000000 0.00000000 0.00000000
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## [28,] 0.00000000 0.06644063 0.00000000 0.00000000 0.00000000 0.00000000
## [29,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [30,] 0.00000000 0.02414136 0.02597845 0.00000000 0.00000000 0.00000000
## [31,] 0.00000000 0.04172515 0.02665695 0.02887755 0.00000000 0.00000000
## [32,] 0.00000000 0.06992847 0.03216961 0.00000000 0.00000000 0.00000000
## [33,] 0.00000000 0.00000000 0.05632983 0.00000000 0.00000000 0.06121753
## [34,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [35,] 0.00000000 0.03814228 0.04104481 0.00000000 0.00000000 0.00000000
## [36,] 0.00000000 0.00000000 0.00000000 0.04861596 0.00000000 0.04939878
## [37,] 0.00000000 0.03937094 0.00000000 0.00000000 0.00000000 0.00000000

```

```

## [38,] 0.00000000 0.00000000 0.02599447 0.03756266 0.00000000 0.00000000
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## [42,] 0.00000000 0.04227906 0.00000000 0.01644469 0.00000000 0.00000000
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## [45,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [46,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [63,] 0.00000000 0.03699430 0.00000000 0.00000000 0.00000000 0.00000000
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## [65,] 0.04614378 0.00000000 0.00000000 0.02732207 0.00000000 0.07174630
## [66,] 0.05041608 0.04763367 0.00000000 0.02985172 0.00000000 0.03691401
## [67,] 0.04848143 0.00000000 0.00000000 0.02870621 0.00000000 0.03549749
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## [69,] 0.04923305 0.00000000 0.00000000 0.00000000 0.00000000 0.03604781
## [70,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
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##      [,55]      [,56]      [,57]      [,58]      [,59]      [,60]
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## [3,] 0.02192372 0.00000000 0.00000000 0.03784389 0.00000000 0.00000000
## [4,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.05002474
## [5,] 0.00000000 0.01705487 0.00000000 0.03129015 0.12526011 0.00000000
## [6,] 0.00000000 0.00000000 0.00000000 0.07929686 0.03574112 0.00000000
## [7,] 0.00000000 0.00000000 0.00000000 0.09028922 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.02858975 0.00000000 0.00000000 0.05438502
## [9,] 0.00000000 0.00000000 0.01674406 0.00000000 0.00000000 0.04371075
## [10,] 0.05496814 0.00000000 0.00000000 0.00000000 0.00000000 0.04782770
## [11,] 0.00000000 0.06712906 0.02878751 0.05979546 0.10864653 0.05446005
## [12,] 0.00000000 0.01664076 0.01610511 0.04001817 0.00000000 0.03440712
## [13,] 0.06227375 0.04790504 0.04475708 0.01494096 0.00000000 0.00000000
## [14,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [15,] 0.00000000 0.01586474 0.00000000 0.00000000 0.00000000 0.00000000
## [16,] 0.03687091 0.00000000 0.00000000 0.00000000 0.00000000 0.03208132
## [17,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.03059201
## [18,] 0.00000000 0.00000000 0.00000000 0.04938516 0.04611130 0.00000000
## [19,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.09626989

```

```

## [20,] 0.03192812 0.03103820 0.00000000 0.00000000 0.00000000 0.00000000
## [21,] 0.03023337 0.02939069 0.02869991 0.00000000 0.00000000 0.00000000
## [22,] 0.03067184 0.02981694 0.00000000 0.00000000 0.00000000 0.00000000
## [23,] 0.06352645 0.06175582 0.00000000 0.00000000 0.00000000 0.00000000
## [24,] 0.02606184 0.02533544 0.02473997 0.00000000 0.00000000 0.00000000
## [25,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [26,] 0.01906616 0.01853474 0.00000000 0.00000000 0.00000000 0.01196202
## [27,] 0.05183618 0.05039138 0.02913913 0.00000000 0.00000000 0.00000000
## [28,] 0.00000000 0.00000000 0.00000000 0.03029770 0.00000000 0.00000000
## [29,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [30,] 0.00000000 0.00000000 0.00000000 0.02752542 0.12065227 0.00000000
## [31,] 0.02911945 0.00000000 0.00000000 0.02824432 0.02637193 0.00000000
## [32,] 0.00000000 0.00000000 0.00000000 0.03408524 0.03182564 0.00000000
## [33,] 0.00000000 0.00000000 0.00000000 0.05968415 0.05572754 0.00000000
## [34,] 0.00000000 0.03053823 0.00000000 0.00000000 0.00000000 0.02672192
## [35,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.08452438
## [36,] 0.05068651 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.03916246 0.03807091 0.03717611 0.00000000 0.00000000 0.00000000
## [39,] 0.07716715 0.06176253 0.05818950 0.00000000 0.00000000 0.00000000
## [40,] 0.02275219 0.02211803 0.02159818 0.00000000 0.00000000 0.00000000
## [41,] 0.02224846 0.02162834 0.04995919 0.00000000 0.00000000 0.00000000
## [42,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [43,] 0.09327306 0.00000000 0.04722496 0.00000000 0.00000000 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04812158
## [46,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.09153726
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [49,] 0.04706142 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [50,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [51,] 0.00000000 0.02162771 0.01970807 0.14886749 0.20020801 0.05048543
## [52,] 0.02786540 0.02708873 0.02645205 0.00000000 0.00000000 0.00000000
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.03445777 0.06628403 0.00000000 0.09163960 0.00000000 0.00000000
## [55,] 0.09742903 0.08099809 0.07689910 0.00000000 0.00000000 0.00000000
## [56,] 0.08099809 0.06540741 0.06173603 0.00000000 0.00000000 0.00000000
## [57,] 0.07689910 0.06173603 0.05820110 0.00000000 0.00000000 0.00000000
## [58,] 0.00000000 0.00000000 0.00000000 0.10933049 0.04186054 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.04186054 0.19928072 0.00000000
## [60,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.09597035
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.14536196
## [62,] 0.00000000 0.03370043 0.09766749 0.00000000 0.00000000 0.05516848
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.00000000 0.02763448 0.00000000 0.00000000 0.00000000 0.00000000
## [65,] 0.04776464 0.07084975 0.03005768 0.06243377 0.00000000 0.00000000
## [66,] 0.05218701 0.03603942 0.03284062 0.00000000 0.00000000 0.00000000
## [67,] 0.05018441 0.03465645 0.03158041 0.00000000 0.00000000 0.00000000
## [68,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [69,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [70,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [71,] 0.05015516 0.03463626 0.03156200 0.00000000 0.00000000 0.00000000
##      [,61]      [,62]      [,63]      [,64]      [,65]      [,66]
## [1,] 0.00000000 0.00000000 0.00000000 0.02589050 0.03547477 0.00000000

```

```

## [2,] 0.00000000 0.00000000 0.00000000 0.03509807 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.00000000 0.01946648 0.01806656 0.00000000
## [4,] 0.10023875 0.04331530 0.00000000 0.02156671 0.03174574 0.00000000
## [5,] 0.00000000 0.00000000 0.02540161 0.00000000 0.01974612 0.00000000
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.03930962 0.00000000
## [7,] 0.09587692 0.00000000 0.00000000 0.11037464 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.02651131 0.04995196 0.00000000
## [9,] 0.00000000 0.00000000 0.00000000 0.02106727 0.02127456 0.00000000
## [10,] 0.00000000 0.00000000 0.00000000 0.05299565 0.00000000 0.00000000
## [11,] 0.10912614 0.06623797 0.00000000 0.00000000 0.07242031 0.09123053
## [12,] 0.00000000 0.07387142 0.00000000 0.02058490 0.00000000 0.04009227
## [13,] 0.00000000 0.00000000 0.00000000 0.04068068 0.05294043 0.01864415
## [14,] 0.00000000 0.00000000 0.04182592 0.00000000 0.00000000 0.00000000
## [15,] 0.00000000 0.03333781 0.02624135 0.00000000 0.01821363 0.00000000
## [16,] 0.00000000 0.00000000 0.00000000 0.03554782 0.00000000 0.05438724
## [17,] 0.00000000 0.00000000 0.00000000 0.02069963 0.00000000 0.04859240
## [18,] 0.00000000 0.00000000 0.00000000 0.02039449 0.00000000 0.00000000
## [19,] 0.00000000 0.00000000 0.00000000 0.02011399 0.00000000 0.00000000
## [20,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [21,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.03238848
## [22,] 0.00000000 0.00000000 0.00000000 0.02554968 0.03007377 0.03285820
## [23,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.06805478
## [24,] 0.00000000 0.00000000 0.00000000 0.02521301 0.02555367 0.02791960
## [25,] 0.00000000 0.00000000 0.05819476 0.00000000 0.00000000 0.00000000
## [26,] 0.00000000 0.01909963 0.00000000 0.00000000 0.01869439 0.02042525
## [27,] 0.00000000 0.00000000 0.00000000 0.00000000 0.05082544 0.00000000
## [28,] 0.00000000 0.00000000 0.19512299 0.00000000 0.00000000 0.03166959
## [29,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [30,] 0.00000000 0.00000000 0.02234537 0.00000000 0.02826673 0.00000000
## [31,] 0.00000000 0.00000000 0.02292898 0.00000000 0.00000000 0.00000000
## [32,] 0.00000000 0.00000000 0.19890752 0.00000000 0.00000000 0.00000000
## [33,] 0.00000000 0.00000000 0.04845210 0.00000000 0.00000000 0.00000000
## [34,] 0.02740403 0.00000000 0.00000000 0.02960932 0.00000000 0.00000000
## [35,] 0.00000000 0.00000000 0.03530469 0.00000000 0.00000000 0.00000000
## [36,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04969819 0.00000000
## [37,] 0.00000000 0.13954912 0.00000000 0.00000000 0.00000000 0.00000000
## [38,] 0.00000000 0.00000000 0.00000000 0.00000000 0.03839884 0.00000000
## [39,] 0.00000000 0.00000000 0.00000000 0.00000000 0.02950525 0.03223705
## [40,] 0.00000000 0.00000000 0.00000000 0.00000000 0.02230855 0.02437402
## [41,] 0.00000000 0.00000000 0.00000000 0.00000000 0.02181464 0.02383439
## [42,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [43,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.05532530 0.00000000 0.00000000 0.00000000 0.00000000
## [46,] 0.00000000 0.00000000 0.04110688 0.00000000 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.00000000 0.02167813 0.00000000 0.00000000
## [49,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04614378 0.05041608
## [50,] 0.00000000 0.00000000 0.03699430 0.00000000 0.00000000 0.04763367
## [51,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [52,] 0.00000000 0.00000000 0.00000000 0.00000000 0.02732207 0.02985172
## [53,] 0.00000000 0.00000000 0.00000000 0.15239878 0.00000000 0.00000000
## [54,] 0.00000000 0.00000000 0.00000000 0.00000000 0.07174630 0.03691401
## [55,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04776464 0.05218701

```



```

## [56,] 0.00000000 0.03370043 0.00000000 0.02763448 0.07084975 0.03603942
## [57,] 0.00000000 0.09766749 0.00000000 0.00000000 0.03005768 0.03284062
## [58,] 0.00000000 0.00000000 0.00000000 0.00000000 0.06243377 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [60,] 0.14536196 0.05516848 0.00000000 0.00000000 0.00000000 0.00000000
## [61,] 0.19721259 0.00000000 0.00000000 0.02121548 0.00000000 0.00000000
## [62,] 0.00000000 0.14131942 0.00000000 0.02847670 0.10817888 0.07556388
## [63,] 0.00000000 0.00000000 0.31647217 0.00000000 0.00000000 0.00000000
## [64,] 0.02121548 0.02847670 0.00000000 0.04735913 0.02787252 0.03045314
## [65,] 0.00000000 0.10817888 0.00000000 0.02787252 0.07638099 0.04172643
## [66,] 0.00000000 0.07556388 0.00000000 0.03045314 0.04172643 0.20815048
## [67,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.18706077
## [68,] 0.00000000 0.00000000 0.00000000 0.00000000 0.09315018 0.05898642
## [69,] 0.00000000 0.07379075 0.00000000 0.02973855 0.04074730 0.17849854
## [70,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000 0.04979212
## [71,] 0.00000000 0.00000000 0.00000000 0.00000000 0.04010185 0.07721467
##      [,67]      [,68]      [,69]      [,70]      [,71]
## [1,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [2,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [3,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [4,] 0.00000000 0.00000000 0.00000000 0.03025956 0.00000000
## [5,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [6,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [7,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [8,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [9,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [10,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [11,] 0.00000000 0.00000000 0.06737891 0.04849748 0.06768502
## [12,] 0.00000000 0.02678577 0.00000000 0.00000000 0.00000000
## [13,] 0.09271311 0.06821473 0.06608859 0.04831030 0.08430710
## [14,] 0.00000000 0.02478149 0.03092840 0.04032241 0.03126602
## [15,] 0.00000000 0.00000000 0.00000000 0.04053692 0.03143235
## [16,] 0.04545330 0.03082490 0.00000000 0.04373112 0.04035055
## [17,] 0.04061035 0.02754058 0.03588824 0.00000000 0.03605129
## [18,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [19,] 0.00000000 0.00000000 0.00000000 0.04154709 0.00000000
## [20,] 0.00000000 0.03210218 0.00000000 0.00000000 0.00000000
## [21,] 0.00000000 0.03039820 0.00000000 0.02332493 0.00000000
## [22,] 0.00000000 0.03083905 0.00000000 0.00000000 0.03157891
## [23,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [24,] 0.02684822 0.00000000 0.00000000 0.00000000 0.00000000
## [25,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [26,] 0.00000000 0.01917010 0.01994596 0.00000000 0.00000000
## [27,] 0.00000000 0.05211878 0.00000000 0.00000000 0.00000000
## [28,] 0.00000000 0.00000000 0.00000000 0.07133146 0.00000000
## [29,] 0.00000000 0.00000000 0.00000000 0.04289119 0.00000000
## [30,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [31,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [32,] 0.00000000 0.00000000 0.00000000 0.03336454 0.00000000
## [33,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [34,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [35,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [36,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [37,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000

```

```
## [38,] 0.04034414 0.00000000 0.00000000 0.00000000 0.00000000
## [39,] 0.03100000 0.00000000 0.03148060 0.00000000 0.03098193
## [40,] 0.02343870 0.02287623 0.00000000 0.01755323 0.02342504
## [41,] 0.00000000 0.02236976 0.00000000 0.00000000 0.00000000
## [42,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [43,] 0.05124932 0.00000000 0.00000000 0.00000000 0.00000000
## [44,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [45,] 0.00000000 0.00000000 0.00000000 0.05250953 0.00000000
## [46,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [47,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [48,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [49,] 0.04848143 0.00000000 0.04923305 0.00000000 0.04845318
## [50,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [51,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [52,] 0.02870621 0.00000000 0.00000000 0.00000000 0.02868948
## [53,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [54,] 0.03549749 0.03464562 0.03604781 0.00000000 0.00000000
## [55,] 0.05018441 0.00000000 0.00000000 0.00000000 0.05015516
## [56,] 0.03465645 0.00000000 0.00000000 0.00000000 0.03463626
## [57,] 0.03158041 0.00000000 0.00000000 0.00000000 0.03156200
## [58,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [59,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [60,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [61,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [62,] 0.00000000 0.00000000 0.07379075 0.00000000 0.00000000
## [63,] 0.00000000 0.00000000 0.00000000 0.00000000 0.00000000
## [64,] 0.00000000 0.00000000 0.02973855 0.00000000 0.00000000
## [65,] 0.00000000 0.09315018 0.04074730 0.00000000 0.04010185
## [66,] 0.18706077 0.05898642 0.17849854 0.04979212 0.07721467
## [67,] 0.16728313 0.05672290 0.15885413 0.04940398 0.08359282
## [68,] 0.05672290 0.11072335 0.05760229 0.00000000 0.05668984
## [69,] 0.15885413 0.05760229 0.15012357 0.04955622 0.14927557
## [70,] 0.04940398 0.00000000 0.04955622 0.09325596 0.00000000
## [71,] 0.08359282 0.05668984 0.14927557 0.00000000 0.14841679
```

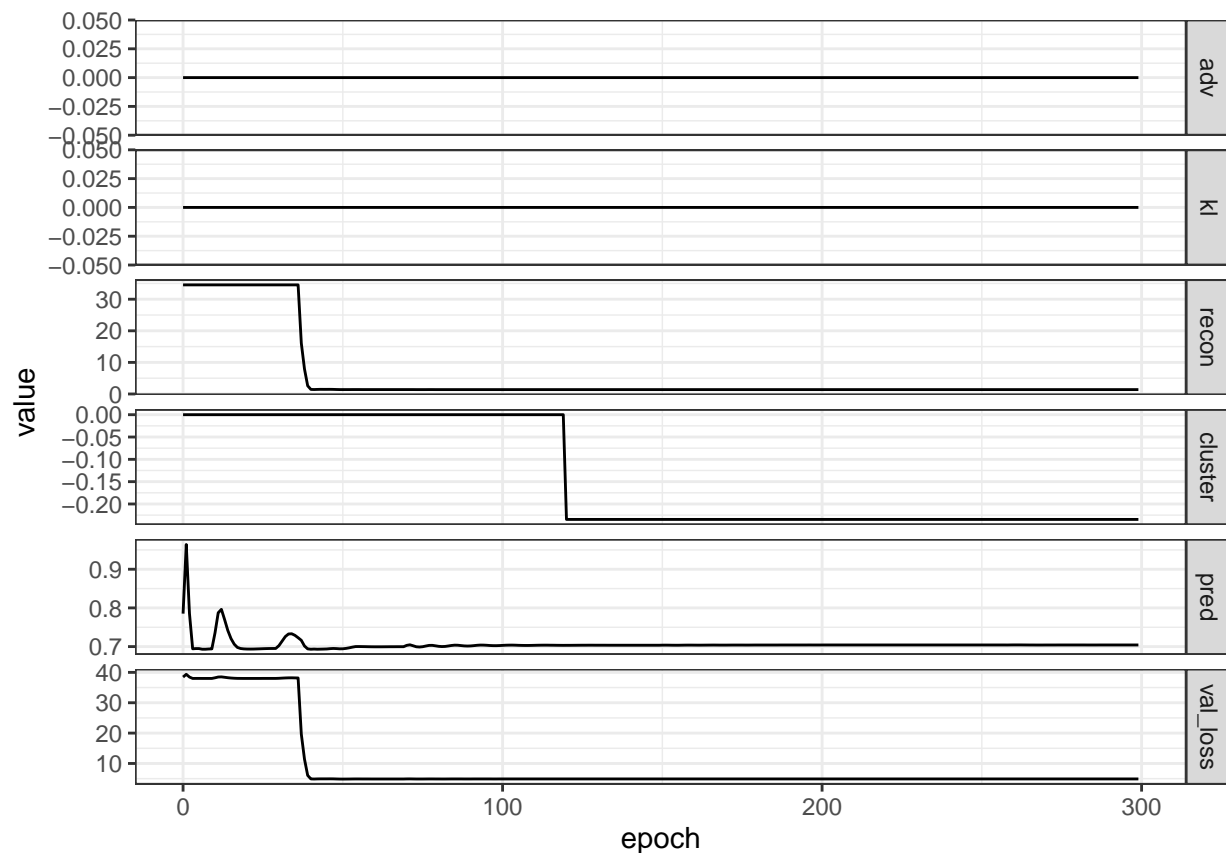
```
net.list.2<-net.list
net.list.2$X<-net.list.2$X[,c("seniority","age","practice2","gender2")]
net.list.2$A<-(net.list.2$A+t(net.list.2$A))/2
diag(net.list.2$A)<-0
parameters.6<-update.parameters(parameters,list(ae_type="GAE",
                                                  K=2L,
                                                  lambda_kl=0,
                                                  lambda_recon=0.,
                                                  lambda_cluster=0.,
                                                  epoch_cluster=120L,
                                                  n_layers=3L,
                                                  lambda_pred=5.,
                                                  prediction_column="practice2",
                                                  model_save_loc="prediction.model.2.pkl"))

prediction.model<-classify.model.fit(parameters.6, net.list.2)
plot.diagnostics(prediction.model)
```

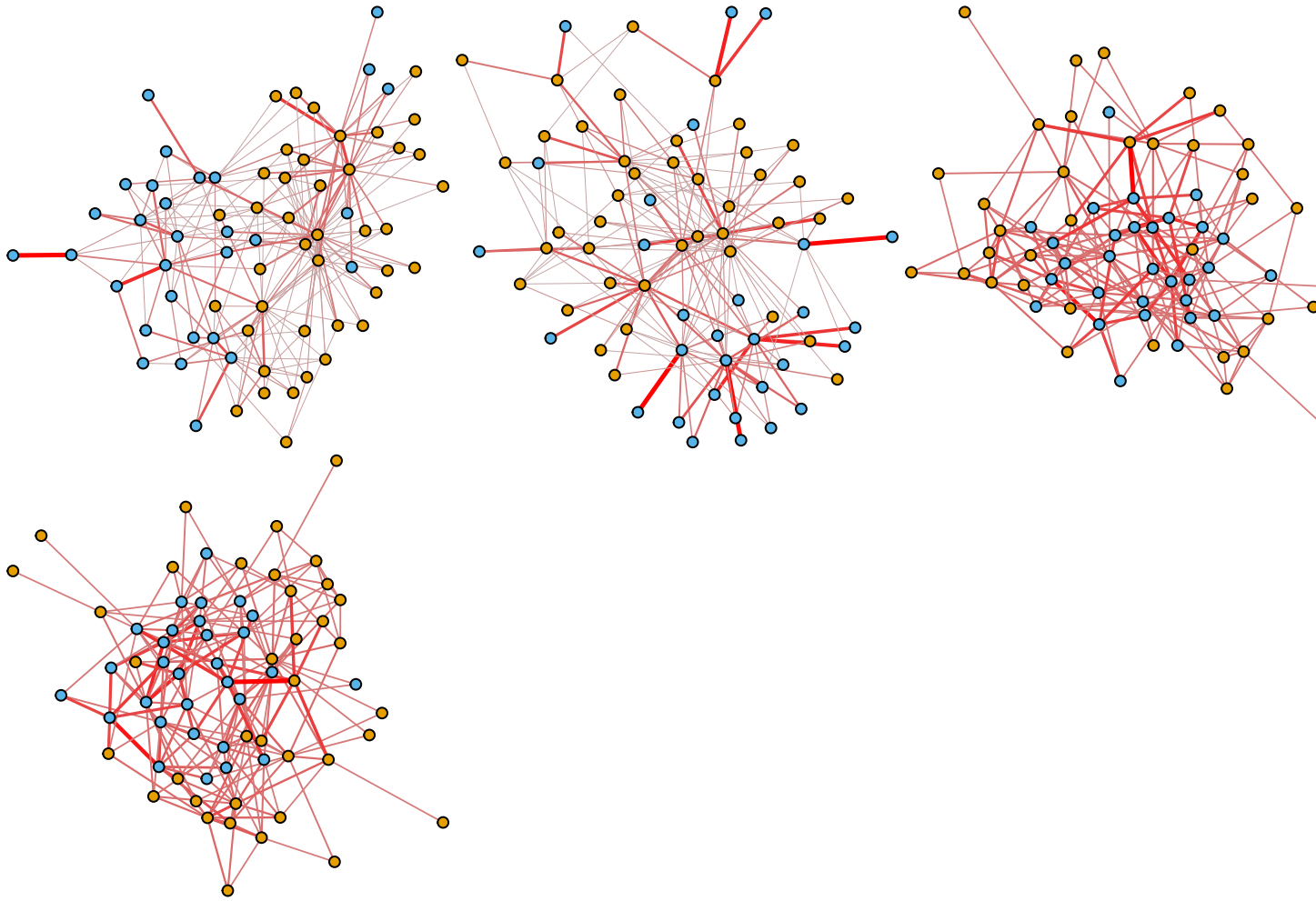
```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
```

```
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```

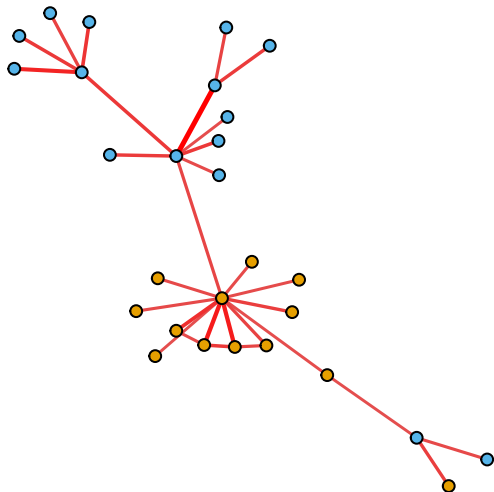
```
## Warning in melt(loss.log, id.vars = "epoch"): The melt generic in data.table
## has been passed a data.frame and will attempt to redirect to the relevant
## reshape2 method; please note that reshape2 is deprecated, and this redirection
## is now deprecated as well. To continue using melt methods from reshape2 while
## both libraries are attached, e.g. melt.list, you can prepend the namespace
## like reshape2::melt(loss.log). In the next version, this warning will become an
## error.
```



```
summary(prediction.model)
attn.matrices<-visualize.attention(prediction.model,plot=F)
torch<-import("torch")
for (i in 1:4){
  vis.weighted.graph(attn.matrices[[i]],cl=X$practice,threshold=0.05,weight.scaling.factor = 2.5)
}
```



```
vis.weighted.graph(attn.matrices[[2]]**attn.matrices[[3]],cl=X$practice,threshold=0.06,weight.scaling.
```



```
##           [,1]      [,2]      [,3]      [,4]      [,5]
## [1,] 2.083560e-02 1.230938e-02 8.135385e-03 1.414006e-02 1.104666e-02
## [2,] 2.006652e-02 2.541350e-02 6.287665e-05 1.868957e-02 6.428951e-03
## [3,] 1.138222e-02 1.509119e-04 2.869306e-02 9.789259e-03 1.059245e-02
## [4,] 1.774634e-02 1.429812e-02 8.813208e-03 2.443350e-02 9.997298e-03
```

```

## [5,] 2.007543e-02 7.091628e-03 1.384930e-02 1.450272e-02 3.140690e-02
## [6,] 1.926708e-02 6.488201e-03 1.914196e-02 1.697429e-02 2.419867e-02
## [7,] 1.617786e-02 1.564130e-03 2.085235e-02 6.162762e-03 2.041920e-02
## [8,] 1.389594e-02 7.439011e-04 2.205567e-02 9.339480e-03 8.968072e-03
## [9,] 1.985935e-02 5.776391e-03 1.230299e-02 1.260689e-02 1.309889e-02
## [10,] 9.954975e-03 1.263412e-02 1.268007e-02 9.553183e-03 1.036024e-02
## [11,] 1.074310e-02 3.083334e-03 1.011874e-02 6.439678e-02 2.222783e-02
## [12,] 5.113777e-03 1.731459e-03 4.886839e-03 3.745351e-03 3.865005e-03
## [13,] 2.639012e-02 1.075749e-02 2.234376e-02 1.741983e-02 2.411151e-02
## [14,] 1.125622e-02 2.264189e-02 3.181613e-02 3.492162e-02 8.510586e-02
## [15,] 2.530299e-02 2.228409e-02 1.051078e-02 2.745503e-02 2.442198e-02
## [16,] 1.962711e-02 1.149566e-01 1.361781e-02 3.814579e-02 1.875770e-02
## [17,] 4.850764e-02 1.030857e-01 5.108547e-02 7.619239e-02 1.273764e-02
## [18,] 1.029264e-02 9.106124e-04 1.327326e-02 3.219214e-03 2.630416e-02
## [19,] 6.762671e-03 7.932582e-03 1.985730e-04 7.177168e-03 1.344478e-03
## [20,] 1.603431e-02 1.716846e-02 9.131663e-03 1.541277e-02 1.306134e-02
## [21,] 5.901252e-03 3.337151e-03 4.299565e-03 3.810066e-03 4.280031e-03
## [22,] 3.647120e-02 4.618988e-02 3.396118e-02 3.608781e-02 4.851200e-02
## [23,] 9.043131e-03 6.098970e-03 6.110410e-03 8.913626e-03 8.932890e-03
## [24,] 5.792505e-03 2.031098e-03 4.089548e-03 4.350383e-03 4.344126e-03
## [25,] 1.154489e-03 1.376109e-03 2.874098e-04 1.222243e-03 1.325983e-03
## [26,] 5.538811e-03 4.331832e-03 3.760991e-03 5.093639e-03 4.154949e-03
## [27,] 1.575712e-02 1.451605e-02 7.792942e-03 1.169422e-02 1.137359e-02
## [28,] 2.933022e-03 3.524938e-03 3.048560e-04 3.501805e-03 6.882916e-04
## [29,] 2.559923e-03 2.856699e-03 2.936789e-04 2.439166e-03 2.246912e-03
## [30,] 7.364948e-03 5.502133e-03 3.400976e-03 8.150444e-03 6.071251e-03
## [31,] 1.263993e-02 1.248604e-02 5.041978e-03 1.381817e-02 6.930769e-03
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## [16,] 3.036998e-02 0.0327593837 1.860473e-02 5.168277e-02 4.605125e-02
## [17,] 5.803371e-02 0.0823817775 3.544773e-02 7.159923e-02 1.227932e-01
## [18,] 3.711892e-03 0.0047564462 7.141118e-04 0.000000e+00 2.224200e-04
## [19,] 7.146705e-03 0.0120677531 3.054099e-03 2.737325e-02 1.307465e-02
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## [28,] 4.557999e-03 0.0163945884 7.276489e-04 2.350861e-02 7.259491e-03
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## [30,] 5.350932e-03 0.0162838080 1.332000e-03 1.547528e-02 1.144197e-02
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## [32,] 5.194597e-03 0.0165878010 2.394223e-04 1.731632e-02 1.265282e-04
## [33,] 1.496029e-02 0.0037869082 5.067086e-03 1.082956e-03 8.229308e-04
## [34,] 4.849531e-03 0.0150525011 1.127288e-03 3.287738e-02 1.088593e-02
## [35,] 3.166379e-03 0.0205134208 2.035827e-03 6.789247e-03 1.787592e-03
## [36,] 1.619416e-02 0.0049266307 6.937748e-03 1.003289e-02 1.019232e-03
## [37,] 1.748239e-02 0.0003365074 1.910441e-05 4.524012e-02 6.240296e-04
## [38,] 1.127957e-02 0.0057233367 1.619832e-02 0.000000e+00 3.597083e-04
## [39,] 1.247309e-02 0.0080310499 1.135976e-02 0.000000e+00 2.231883e-03
## [40,] 4.158549e-02 0.0177834392 2.804176e-02 0.000000e+00 5.238599e-03
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## [42,] 3.538187e-03 0.0211647034 4.273853e-03 2.236964e-02 7.598856e-03
## [43,] 9.890652e-03 0.0085067046 2.227467e-02 2.269074e-05 4.839059e-04
## [44,] 1.879418e-03 0.0183259468 1.653344e-07 4.770397e-02 1.393869e-02
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## [46,] 1.297254e-02 0.0153148629 1.448018e-02 7.199772e-05 3.962777e-03
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## [4,] 0.0111844172 7.455186e-03 1.873012e-04 0.0147996260 1.709822e-02
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## [22,] 0.0489069457 4.687202e-02 6.168224e-02 0.0623733458 3.843647e-02
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## [40,] 0.0393475327 5.008082e-02 0.03377725 3.542720e-02 1.320322e-02

```

```

## [41,] 0.0208069965 2.027892e-02 0.02032059 1.864922e-02 6.674411e-03
## [42,] 0.0127142908 1.494700e-02 0.02422886 1.765827e-02 1.694758e-02
## [43,] 0.0157668893 1.758391e-02 0.01869547 1.137110e-02 1.652713e-02
## [44,] 0.0180929260 2.186508e-02 0.02241318 1.391923e-02 1.258846e-02
## [45,] 0.0194028270 2.277108e-02 0.02403840 2.497500e-02 1.900302e-04
## [46,] 0.0120686207 0.000000e+00 0.00000000 1.641215e-02 1.861634e-02
## [47,] 0.0120999992 0.000000e+00 0.01551509 0.000000e+00 6.993189e-03
## [48,] 0.0130592600 1.546370e-02 0.02533415 2.147577e-02 1.821625e-02
## [49,] 0.0330743935 2.888984e-02 0.03299144 2.937190e-02 2.174984e-02
## [50,] 0.0032028207 3.382204e-03 0.02730472 2.821346e-02 2.831754e-02
## [51,] 0.0174175980 1.492592e-02 0.01288590 7.719040e-03 5.865897e-03
## [52,] 0.0261788801 2.638789e-02 0.02082459 2.237812e-02 1.274396e-02
## [53,] 0.0208770070 2.503815e-02 0.02563294 5.622248e-05 2.718519e-02
## [54,] 0.0222305763 2.255599e-02 0.02517078 2.291871e-02 1.447782e-02
## [55,] 0.0279103251 2.867472e-02 0.02542637 1.704105e-02 1.303249e-02
## [56,] 0.0267124061 2.198566e-02 0.02390574 1.936761e-02 1.250277e-02
## [57,] 0.0279337438 3.083624e-02 0.02468149 2.356375e-02 1.348585e-02
## [58,] 0.0144951369 6.459802e-03 0.01704391 1.962390e-02 7.151790e-03
## [59,] 0.0070413447 0.000000e+00 0.00000000 9.668363e-03 1.100892e-02
## [60,] 0.0198219745 2.310028e-02 0.02396689 1.553560e-02 1.117662e-02
## [61,] 0.0149246275 0.000000e+00 0.00000000 2.048152e-02 2.166804e-02
## [62,] 0.0188066147 1.923258e-02 0.02014143 2.187020e-02 2.122291e-02
## [63,] 0.0000418324 0.000000e+00 0.02427003 2.555788e-02 2.980362e-02
## [64,] 0.0198615407 1.992771e-02 0.02408097 1.824947e-02 1.489368e-02
## [65,] 0.0424737019 4.317294e-02 0.03284970 3.914880e-02 2.229410e-02
## [66,] 0.0510657926 3.894580e-02 0.03485843 3.702156e-02 1.915974e-02
## [67,] 0.0527351123 7.938853e-02 0.03993917 4.462985e-02 2.476193e-02
## [68,] 0.1196256601 9.434595e-02 0.18819768 1.083709e-01 8.777991e-02
## [69,] 0.0888473270 7.128952e-02 0.06846892 1.280215e-01 4.974344e-02
## [70,] 0.0150719248 1.766840e-02 0.02524384 2.070601e-02 2.819441e-02
## [71,] 0.0708135577 7.488312e-02 0.05928643 6.414878e-02 5.115147e-02
##      [,71]
## [1,] 0.016017961
## [2,] 0.014389166
## [3,] 0.019403870
## [4,] 0.015352582
## [5,] 0.012821838
## [6,] 0.010973807
## [7,] 0.000000000
## [8,] 0.020864746
## [9,] 0.014772736
## [10,] 0.010033944
## [11,] 0.024966171
## [12,] 0.023231329
## [13,] 0.030633970
## [14,] 0.040056200
## [15,] 0.024237939
## [16,] 0.040052544
## [17,] 0.045929930
## [18,] 0.000000000
## [19,] 0.020322010
## [20,] 0.027958155
## [21,] 0.024777411
## [22,] 0.050693387

```

```

## [23,] 0.014487224
## [24,] 0.020272348
## [25,] 0.024775332
## [26,] 0.024133560
## [27,] 0.028273260
## [28,] 0.024226665
## [29,] 0.021011847
## [30,] 0.023373822
## [31,] 0.016969220
## [32,] 0.025134416
## [33,] 0.016068021
## [34,] 0.022043691
## [35,] 0.024592793
## [36,] 0.018210220
## [37,] 0.022708940
## [38,] 0.021687116
## [39,] 0.028221463
## [40,] 0.039604492
## [41,] 0.023974320
## [42,] 0.023228276
## [43,] 0.018151260
## [44,] 0.024304105
## [45,] 0.022740674
## [46,] 0.014871508
## [47,] 0.021463530
## [48,] 0.025578323
## [49,] 0.035660611
## [50,] 0.026121349
## [51,] 0.020380114
## [52,] 0.026637075
## [53,] 0.024996061
## [54,] 0.027005628
## [55,] 0.028095823
## [56,] 0.026942858
## [57,] 0.028853931
## [58,] 0.015558522
## [59,] 0.008760777
## [60,] 0.023601411
## [61,] 0.017878471
## [62,] 0.024379667
## [63,] 0.027541491
## [64,] 0.023895185
## [65,] 0.045022688
## [66,] 0.039800373
## [67,] 0.056029787
## [68,] 0.116288467
## [69,] 0.080107565
## [70,] 0.025721645
## [71,] 0.103074228

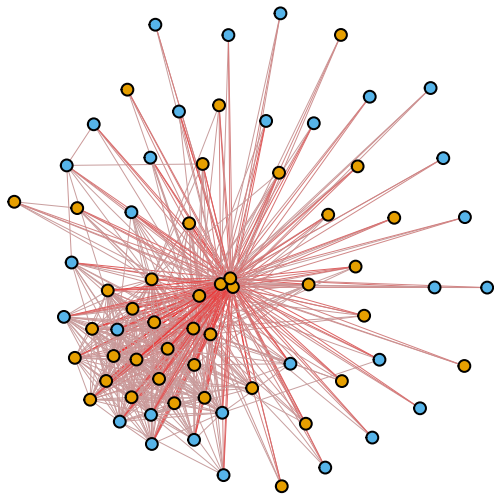
```

```

vis.weighted.graph(attn.matrices[[1]]%*%attn.matrices[[2]]%*%attn.matrices[[3]]%*%attn.matrices[[4]],cl

```





##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]
##	[1,]	0.013515299	0.007605768	0.011883724	0.012218421	0.012543152	0.011475078
##	[2,]	0.002952262	0.005864266	0.002837661	0.003836833	0.002931850	0.002781164
##	[3,]	0.013794765	0.008025379	0.012461607	0.012619781	0.013015870	0.011999324
##	[4,]	0.009109553	0.006524649	0.008089478	0.009000899	0.008413595	0.007787742
##	[5,]	0.008447300	0.005266598	0.007893347	0.008294668	0.009336362	0.008411933
##	[6,]	0.010150660	0.005952052	0.009408254	0.009844230	0.011047707	0.010285536
##	[7,]	0.005928104	0.003554784	0.005911111	0.008040281	0.007467745	0.006536993
##	[8,]	0.013612128	0.009010003	0.011904213	0.012373361	0.011876008	0.011029508
##	[9,]	0.012530341	0.009892016	0.011042230	0.011944760	0.011221527	0.010859561
##	[10,]	0.004107415	0.007570885	0.003792726	0.004810378	0.003271112	0.003243921
##	[11,]	0.011012392	0.007794625	0.009298362	0.010670622	0.009865325	0.008503686
##	[12,]	0.013656984	0.011408584	0.011235938	0.012904092	0.011171877	0.009504163
##	[13,]	0.016037428	0.012037248	0.013157160	0.014867055	0.013361670	0.011344630
##	[14,]	0.015997688	0.013535760	0.012989890	0.015500064	0.013488059	0.011062356
##	[15,]	0.012205583	0.008672357	0.010338981	0.011779671	0.011167216	0.009599710
##	[16,]	0.017013398	0.014977338	0.013523511	0.016155264	0.013483730	0.011173231
##	[17,]	0.018590618	0.016005253	0.014714860	0.017621280	0.014582039	0.012105338
##	[18,]	0.004456132	0.002614728	0.004571774	0.004933944	0.006540511	0.005706684
##	[19,]	0.003063902	0.005740150	0.002927370	0.004159675	0.002943385	0.002824340
##	[20,]	0.023816927	0.020457021	0.018901664	0.022048757	0.018793862	0.015834107
##	[21,]	0.018853413	0.015102293	0.015052264	0.017137482	0.014759832	0.012229267
##	[22,]	0.018952832	0.014330611	0.015470020	0.017521148	0.015756387	0.013463138
##	[23,]	0.008065800	0.005241754	0.006861785	0.006813171	0.006705871	0.005161190
##	[24,]	0.012813556	0.009001976	0.010920080	0.011547535	0.011226142	0.010133185
##	[25,]	0.002148774	0.003032844	0.003013672	0.003644215	0.004913137	0.004029625
##	[26,]	0.016843522	0.013246898	0.014005267	0.015765380	0.014040134	0.012347817
##	[27,]	0.023084353	0.017873104	0.018792466	0.021107095	0.018894666	0.016604863
##	[28,]	0.004023869	0.004649579	0.004465831	0.005413045	0.005996813	0.005170443
##	[29,]	0.004446709	0.005943332	0.003985796	0.005153097	0.004087892	0.003678604
##	[30,]	0.010640319	0.007669574	0.010045831	0.010942658	0.012189831	0.011152593
##	[31,]	0.008145394	0.006015702	0.007696170	0.008599720	0.010096333	0.008500351
##	[32,]	0.006567942	0.005815127	0.006767272	0.007920305	0.009554219	0.008311532
##	[33,]	0.006256065	0.004386070	0.006026492	0.006703789	0.008166600	0.007163363
##	[34,]	0.009613761	0.017441720	0.008169737	0.012470502	0.007444728	0.007617021
##	[35,]	0.006186668	0.007147062	0.006545885	0.007712995	0.008803215	0.007713592
##	[36,]	0.014778866	0.009213809	0.013030688	0.013378875	0.013594314	0.012567806
##	[37,]	0.003491497	0.003663386	0.003579849	0.004325211	0.004256553	0.003624409

```

## [38,] 0.011540406 0.007620991 0.009885836 0.010247585 0.010211076 0.009151195
## [39,] 0.016154671 0.011788292 0.013319338 0.014960469 0.013731796 0.011644202
## [40,] 0.021711645 0.016485141 0.017583985 0.019954910 0.017927451 0.015115804
## [41,] 0.033122182 0.025853352 0.027369460 0.030432375 0.027661362 0.023961299
## [42,] 0.022096589 0.025031805 0.018852082 0.024111168 0.020828774 0.018615340
## [43,] 0.007620181 0.005909440 0.005925371 0.006357308 0.005819901 0.004790665
## [44,] 0.003659765 0.007399283 0.003174703 0.004303536 0.002472016 0.002779720
## [45,] 0.005595176 0.008371122 0.005093841 0.007026403 0.004751486 0.004547555
## [46,] 0.003380406 0.006262032 0.003710456 0.005034918 0.004605434 0.004282647
## [47,] 0.008326335 0.007872142 0.007033043 0.008245815 0.008267179 0.007558422
## [48,] 0.014653314 0.018850397 0.012606471 0.016721309 0.012899343 0.011896608
## [49,] 0.018414336 0.012566656 0.015268700 0.016889023 0.015474142 0.013139467
## [50,] 0.012075958 0.012954730 0.012181737 0.014849042 0.017620852 0.015045442
## [51,] 0.028797444 0.020909458 0.025953597 0.028111666 0.031708332 0.027221382
## [52,] 0.036765502 0.024436074 0.030378422 0.032541231 0.030219352 0.025346043
## [53,] 0.004521698 0.012070337 0.003924206 0.006692334 0.003849363 0.003770891
## [54,] 0.046034751 0.032761229 0.038585035 0.042794305 0.040250184 0.035117861
## [55,] 0.025710984 0.018205469 0.020521281 0.022985154 0.021208915 0.017849745
## [56,] 0.017352323 0.012176982 0.014135404 0.015881061 0.014653755 0.012448503
## [57,] 0.025240394 0.017151760 0.020254683 0.022470722 0.020473862 0.017252496
## [58,] 0.018243319 0.010782365 0.017430850 0.017924760 0.021405863 0.019836924
## [59,] 0.015622062 0.009570264 0.015648852 0.016687879 0.022237486 0.019812328
## [60,] 0.023957052 0.025547021 0.019760802 0.029163256 0.019510615 0.017863442
## [61,] 0.008156626 0.010998366 0.007511269 0.011679309 0.007966447 0.007696042
## [62,] 0.022630695 0.018716204 0.019241692 0.023110425 0.019616115 0.018441265
## [63,] 0.014956081 0.016835886 0.016847885 0.021121399 0.024596318 0.021103491
## [64,] 0.016630417 0.015109826 0.014611255 0.017472979 0.015507577 0.014594769
## [65,] 0.074742142 0.054035194 0.062469008 0.069402853 0.062965298 0.054634721
## [66,] 0.018835029 0.014240827 0.015395971 0.017652467 0.015606601 0.013214758
## [67,] 0.027996678 0.022532965 0.022425109 0.026498078 0.022201388 0.018288570
## [68,] 0.096876231 0.087552349 0.077358348 0.100669054 0.086360165 0.075809323
## [69,] 0.023845168 0.018408546 0.019769288 0.023126696 0.020136160 0.017266889
## [70,] 0.021772895 0.023927131 0.018673645 0.024382715 0.019702358 0.017771248
## [71,] 0.113717319 0.096467154 0.094742332 0.117064359 0.100671138 0.086985616
##      [,7]      [,8]      [,9]     [,10]     [,11]     [,12]
## [1,] 0.007056714 0.0118250693 0.009595062 0.006536612 0.015306848 0.014095874
## [2,] 0.001914119 0.0020642384 0.004464330 0.005088674 0.004179874 0.004941637
## [3,] 0.007472302 0.0120879288 0.009684929 0.007206096 0.015586860 0.014466227
## [4,] 0.004747835 0.0079100019 0.007256841 0.005569533 0.011156319 0.010265149
## [5,] 0.005275598 0.0069760092 0.006234357 0.004485636 0.010286697 0.009377512
## [6,] 0.006593473 0.0084353473 0.007310890 0.005179702 0.012097044 0.010864078
## [7,] 0.009237357 0.0048994569 0.004328831 0.003770111 0.010322384 0.007101270
## [8,] 0.006324224 0.0123171619 0.010760645 0.007786279 0.015334538 0.014657649
## [9,] 0.006442676 0.0110095953 0.011159705 0.008510646 0.014127156 0.014048532
## [10,] 0.002621382 0.0033516059 0.005295765 0.007579330 0.005207365 0.006254288
## [11,] 0.005021846 0.0095056701 0.008254133 0.006702363 0.014516481 0.012545863
## [12,] 0.005336344 0.0112650439 0.011283296 0.009480901 0.016716242 0.017390417
## [13,] 0.006016567 0.0135593970 0.012292042 0.010085996 0.019852125 0.019022658
## [14,] 0.005486826 0.0130478874 0.013052697 0.010979444 0.020788626 0.020357418
## [15,] 0.004926914 0.0102058021 0.008989437 0.007100951 0.015582915 0.013828130
## [16,] 0.005547240 0.0140877266 0.013939213 0.012573635 0.021723543 0.021386555
## [17,] 0.006042512 0.0154040779 0.015226667 0.013249183 0.023754092 0.023327787
## [18,] 0.004759049 0.0033198937 0.002935239 0.002588949 0.006553555 0.005273849
## [19,] 0.002179962 0.0023005332 0.004303394 0.005112430 0.004649048 0.005127043

```

```

## [20,] 0.007963182 0.0194080664 0.019813965 0.016911258 0.028515333 0.030576143
## [21,] 0.006097285 0.0158474330 0.015080237 0.012560450 0.022748704 0.023637990
## [22,] 0.006805129 0.0158235473 0.014421098 0.011900912 0.023092769 0.022389673
## [23,] 0.002805449 0.0072955589 0.004955503 0.005227955 0.009381353 0.008719410
## [24,] 0.005599384 0.0113990680 0.010012043 0.007933738 0.014655661 0.013931413
## [25,] 0.002486887 0.0009089607 0.003056452 0.001944521 0.003744019 0.004253177
## [26,] 0.006663112 0.0141365473 0.013569626 0.011095503 0.020025334 0.020452821
## [27,] 0.008608522 0.0194111943 0.018750377 0.014811439 0.026868883 0.027789445
## [28,] 0.004191409 0.0026523296 0.004234954 0.003856834 0.006080677 0.006194582
## [29,] 0.002265433 0.0033709141 0.004862681 0.004968961 0.006097614 0.006378946
## [30,] 0.007428459 0.0082919455 0.008164309 0.006416608 0.012644247 0.012090290
## [31,] 0.006127120 0.0062299337 0.005926047 0.005446569 0.010823984 0.009650536
## [32,] 0.006355997 0.0045329281 0.005414677 0.004989161 0.009385542 0.008744908
## [33,] 0.005157316 0.0044672566 0.004389161 0.003876265 0.008322129 0.007292526
## [34,] 0.006914101 0.0073828882 0.013042136 0.015742489 0.013483988 0.014472825
## [35,] 0.005458180 0.0040915001 0.006350921 0.006041504 0.008464773 0.009036977
## [36,] 0.006955030 0.0127111803 0.010439443 0.008008622 0.016236080 0.015440576
## [37,] 0.002071312 0.0024645996 0.003257731 0.002774861 0.005107183 0.005289500
## [38,] 0.005003476 0.0102430986 0.008765783 0.006630758 0.013181029 0.012426504
## [39,] 0.006154485 0.0139891602 0.012167024 0.010094831 0.020302655 0.018254340
## [40,] 0.007715212 0.0184142037 0.016668866 0.013880346 0.026800978 0.025546859
## [41,] 0.013343434 0.0277520115 0.025842549 0.022022272 0.038860993 0.038983841
## [42,] 0.012573155 0.0164822336 0.021073290 0.021023205 0.026279851 0.028616830
## [43,] 0.002277471 0.0067865860 0.005831514 0.005347093 0.009169661 0.008550814
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## [45,] 0.003395023 0.0044166149 0.006907341 0.007246442 0.008184658 0.008647916
## [46,] 0.003323916 0.0020880861 0.005069902 0.005334039 0.005088699 0.005972899
## [47,] 0.004660191 0.0049225251 0.004651310 0.006104412 0.007113630 0.008761000
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## [51,] 0.019454726 0.0227616653 0.020541687 0.019070611 0.036253658 0.033143151
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## [55,] 0.009205078 0.0220511552 0.018292173 0.015676694 0.030841420 0.027667602
## [56,] 0.006519598 0.0148789553 0.012468895 0.010411685 0.021379357 0.019169787
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## [70,] 0.028354127 0.029737151 0.025901955 0.016804747 0.012003024 0.019667149
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##      [,61]      [,62]      [,63]      [,64]      [,65]      [,66]
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## [2,] 0.0022641369 0.002799493 0.003383172 0.003585840 0.003718333 0.004973371
## [3,] 0.0058247199 0.010045905 0.007145953 0.011514667 0.016848601 0.015862228
## [4,] 0.0042924133 0.007280830 0.004945718 0.008000344 0.011234223 0.011434823
## [5,] 0.0036381218 0.006232702 0.006261672 0.007113938 0.010417615 0.010205694
## [6,] 0.0045866477 0.007336471 0.006758252 0.008497303 0.012174330 0.011590496
## [7,] 0.0063304499 0.004794513 0.005050770 0.006778980 0.007440145 0.006984777
## [8,] 0.0057825552 0.010335943 0.006361633 0.011215752 0.016276886 0.015670501
## [9,] 0.0058982861 0.009692921 0.006716289 0.010632283 0.014477412 0.014187063
## [10,] 0.0036290616 0.003856226 0.002947508 0.005354328 0.005200718 0.006157665
## [11,] 0.0048946455 0.009398957 0.005595506 0.010000861 0.014737092 0.015386541
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## [15,] 0.0045938535 0.010360479 0.006932875 0.010718632 0.016378120 0.017272437
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## [17,] 0.0080914653 0.016518306 0.009518440 0.017661757 0.026505260 0.028302284
## [18,] 0.0028249084 0.003192206 0.004746566 0.004271720 0.005841578 0.005718110
## [19,] 0.0026565604 0.003244977 0.003106755 0.003902268 0.004095974 0.005486307

```

```

## [20,] 0.0104943144 0.019972440 0.013208972 0.022263978 0.033615729 0.034694242
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## [24,] 0.0052093064 0.009739457 0.006221398 0.010991292 0.015839670 0.015496505
## [25,] 0.0006941578 0.002068662 0.007104747 0.002211262 0.003179724 0.004440595
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## [27,] 0.0098091788 0.018632253 0.012018197 0.020538751 0.030784899 0.030924328
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## [34,] 0.0087907117 0.009701962 0.006662629 0.012159533 0.011227886 0.014155659
## [35,] 0.0040568147 0.005555219 0.009328960 0.006993735 0.008457685 0.009329228
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## [37,] 0.0016553019 0.003740298 0.004528664 0.003662879 0.005337418 0.006483196
## [38,] 0.0045284959 0.008701970 0.005639535 0.009702332 0.014348546 0.013957467
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## [41,] 0.0147700655 0.026985428 0.017750873 0.030383320 0.044341118 0.044496252
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## [56,] 0.0069262601 0.014443994 0.008019155 0.015549828 0.023226832 0.023866862
## [57,] 0.0102914914 0.021085951 0.010551185 0.023020000 0.034844543 0.034941802
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## [59,] 0.0123953620 0.011632073 0.015130419 0.016524026 0.021047708 0.018082883
## [60,] 0.0207396778 0.023522936 0.013789388 0.030441816 0.031724662 0.033970338
## [61,] 0.0111227054 0.008589056 0.005280026 0.011892496 0.010236161 0.011499764
## [62,] 0.0122764940 0.021609176 0.012603367 0.021416336 0.028738501 0.028898860
## [63,] 0.0085613962 0.014577190 0.030734629 0.016164826 0.020472914 0.023741151
## [64,] 0.0095443284 0.014126721 0.008972750 0.016658566 0.020588220 0.020933092
## [65,] 0.0372173177 0.065296930 0.038963331 0.073338804 0.106431686 0.101587954
## [66,] 0.0079026611 0.016110929 0.009683422 0.017438018 0.026056052 0.027186870
## [67,] 0.0124147636 0.024827091 0.013898261 0.028049663 0.040059515 0.042439588
## [68,] 0.0487174546 0.085389848 0.065506521 0.107288295 0.128641635 0.134424352
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##      [,67]      [,68]      [,69]      [,70]      [,71]
## [1,] 0.012794063 0.012665673 0.012508703 0.009134182 0.012598105

```

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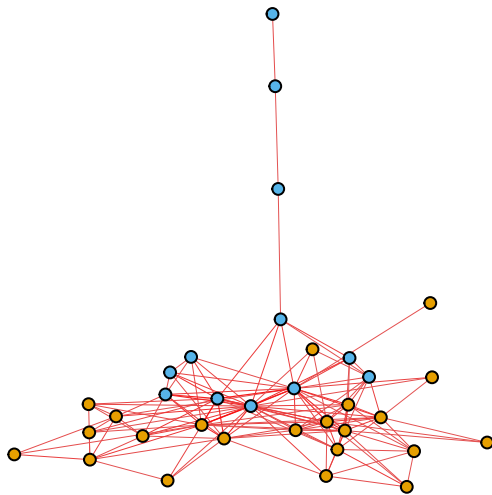
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## [4,] 0.009392953 0.009532660 0.009814257 0.007145340 0.009210966
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## [49,] 0.022222467 0.021682995 0.021506731 0.015719281 0.022192291
## [50,] 0.014288095 0.016745799 0.016713960 0.015354821 0.015098912
## [51,] 0.032108205 0.030249281 0.030843795 0.024395627 0.031408962
## [52,] 0.044352103 0.042023016 0.041607382 0.030582456 0.043891219
## [53,] 0.007353182 0.007443591 0.008128392 0.007010799 0.007158706
## [54,] 0.052520985 0.051063624 0.050563232 0.039966328 0.053397924
## [55,] 0.030219863 0.029218203 0.028123513 0.021080869 0.029657414

```



```
## [56,] 0.020746748 0.020254279 0.020191647 0.014657025 0.020621769
## [57,] 0.031050875 0.029352066 0.029391686 0.021171370 0.030581561
## [58,] 0.016052922 0.016678642 0.016852626 0.013150967 0.016131303
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## [62,] 0.023227405 0.024000376 0.025183468 0.019569470 0.023811456
## [63,] 0.018544397 0.021331603 0.022536133 0.021491833 0.019922113
## [64,] 0.016796224 0.017264118 0.017727939 0.013824315 0.016642601
## [65,] 0.088337410 0.083703059 0.086194916 0.064736242 0.089000216
## [66,] 0.024126157 0.023127737 0.023506487 0.017609119 0.023891495
## [67,] 0.038809677 0.036106396 0.036808562 0.028015061 0.038116576
## [68,] 0.114709710 0.124134339 0.114739050 0.098969013 0.118248858
## [69,] 0.030916339 0.030009210 0.030978336 0.023257261 0.030835641
## [70,] 0.030771863 0.032057586 0.032485453 0.028040742 0.032101642
## [71,] 0.138649316 0.137375236 0.135564891 0.115475126 0.143292691
```

```
vis.weighted.graph(abs(stdinf),weight.scaling.factor = 0.7,cl=X$practice,threshold=1.96)
```



```
##           [,1]      [,2]      [,3]      [,4]      [,5]      [,6]
## [1,] 0.000000000 0.07201250 0.01240510 0.40744382 0.411453372 0.398142882
## [2,] 0.072012500 0.000000000 0.30607125 0.08851335 0.675466974 0.265825657
## [3,] 0.012405100 0.30607125 0.000000000 0.10717705 0.064472666 0.169780878
## [4,] 0.407443819 0.08851335 0.10717705 0.000000000 0.234802390 0.116340338
## [5,] 0.411453372 0.67546697 0.06447267 0.23480239 0.000000000 0.892597055
## [6,] 0.398142882 0.26582566 0.16978088 0.11634034 0.892597055 0.000000000
## [7,] 0.488858876 0.37394088 0.32633865 0.56216841 0.575988137 0.884743035
## [8,] 0.381364860 0.04982264 0.12206488 0.21838588 0.604073636 0.544043882
## [9,] 0.046901565 0.57588112 0.11930121 0.11392378 0.559630993 0.259827549
## [10,] 0.317747018 0.62918476 0.07072153 0.09471917 0.223935148 0.026359211
## [11,] 0.061387193 0.60524372 0.27805379 0.57789508 0.782206853 0.939190745
## [12,] 0.359981669 0.17093785 0.28661333 0.66437949 0.765907640 0.617011193
## [13,] 0.038849797 0.70069360 0.28469667 0.03451303 0.785574726 0.971567982
## [14,] 0.780030799 0.02510344 0.03314376 0.06469898 0.538853698 0.626089713
## [15,] 0.356407084 0.03625468 0.16600081 0.04113784 0.150851881 0.298013335
## [16,] 0.601927795 0.61082171 0.32559237 0.13488323 0.660851721 0.359271782
## [17,] 0.600107910 0.59522578 0.26142528 0.15079718 0.836173674 0.304945360
## [18,] 0.540947586 0.23799791 0.30283413 0.09736391 2.096367706 1.075789629
## [19,] 0.055592351 1.58636349 0.46726531 1.15184671 0.569659300 1.032173227
```

```

## [20,] 0.711009377 1.03946752 0.32504581 0.57994587 0.628968279 0.148490576
## [21,] 1.019241524 0.28606804 0.34347539 0.73299039 0.852890548 0.859745286
## [22,] 0.484079592 0.64592740 0.11504150 0.33963334 0.278455170 0.147426072
## [23,] 0.931480741 0.46867846 0.94717379 0.51079900 0.896123340 0.432391393
## [24,] 0.848881226 0.77923269 0.45401363 0.87662773 1.087166704 0.002491821
## [25,] 0.739824778 0.01274044 1.03010803 0.07436708 0.548614828 0.671187717
## [26,] 0.416022199 0.43374017 0.66073764 0.10655983 0.027774329 0.115934540
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## [28,] 1.370647622 0.02784513 0.67375968 1.02254366 1.318618464 1.767388513
## [29,] 0.416919837 1.63042863 0.37496238 1.14165899 0.677150676 0.308303757
## [30,] 0.113308081 0.31372981 0.90691880 0.28352768 0.961927863 2.079332213
## [31,] 0.792035618 0.64322367 0.07968035 0.60142882 1.820682827 1.801642353
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## [45,] 0.755811960 0.56746613 0.11968865 1.42258446 0.514628184 0.108188591
## [46,] 0.810537224 0.30751067 0.04264051 1.32636317 0.301535269 0.684231900
## [47,] 0.040567796 0.13053755 0.30354431 0.04931565 0.372603830 0.439059681
## [48,] 0.512463517 1.53339566 0.40695893 0.10479941 0.814990143 0.519294717
## [49,] 0.071994194 0.70760772 0.87328678 0.72351053 0.784603560 0.871611302
## [50,] 0.918925488 0.43532066 0.10912365 0.10105461 1.908449123 1.915769792
## [51,] 0.322470831 0.98798466 0.01681546 0.65414105 1.645144273 1.382488418
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## [16,] 0.2221197 0.695913448 0.7219063 0.663196418 0.40731834 1.026162603
## [17,] 1.0622785 1.044636699 1.0257507 0.663471261 0.42543099 1.195798833
## [18,] 1.3344781 1.171098709 1.3600260 2.094330833 2.33941199 0.263682614
## [19,] 2.1964327 2.027103560 2.0725162 0.196894981 0.07289520 1.524491144

```

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## [22,] 0.3407764 0.298929578 0.8122889 0.241324420 0.05230019 0.417545539
## [23,] 1.1690600 1.130284658 0.3780505 0.008559056 0.08477725 0.541868319
## [24,] 1.2004551 0.904642219 1.4211940 0.941625424 0.79660821 0.807755624
## [25,] 1.5392621 1.562294611 1.5493560 0.601633489 0.72626925 0.479612471
## [26,] 0.4687537 0.348104747 0.2641124 0.868905204 0.69838235 0.191852082
## [27,] 1.1787426 1.113405706 1.3489683 1.001134101 0.84676541 0.515722276
## [28,] 2.6617178 2.580412899 2.8755758 1.588231548 0.95058372 0.537757394
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## [54,] 1.3943451 1.386147247 0.5909154 0.788406479 0.14346498 0.946059146
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## [64,] 0.7609150 0.197460737 0.4447569 0.531893106 0.55030922 0.474802238
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##      [,61]      [,62]      [,63]      [,64]      [,65]      [,66]
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## [9,] 0.44518148 0.1876879188 0.20946060 1.01808437 0.18354588 0.60731014
## [10,] 0.59287162 0.0298390790 0.26466618 1.23534333 0.71884369 0.68165786
## [11,] 0.92496056 1.0196480880 1.51900687 0.47214029 1.28379657 1.56163436
## [12,] 0.20638924 0.8891491880 0.72499183 0.59813907 0.42970540 0.53799186
## [13,] 0.41610556 0.3490559437 1.58485260 0.04045909 1.11861246 1.34199273
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## [23,] 0.01576976 0.1310452647 0.36895636 0.33829202 0.20097516 0.79053102
## [24,] 0.25357148 0.4194530516 1.38098346 0.50334517 0.67852026 0.70405224
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```

```

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## [6,] 1.1566276369 0.761316726 0.62973978 0.15208828 1.046423631
## [7,] 1.7106324452 1.219335185 0.49826877 0.30187924 1.471438918
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```



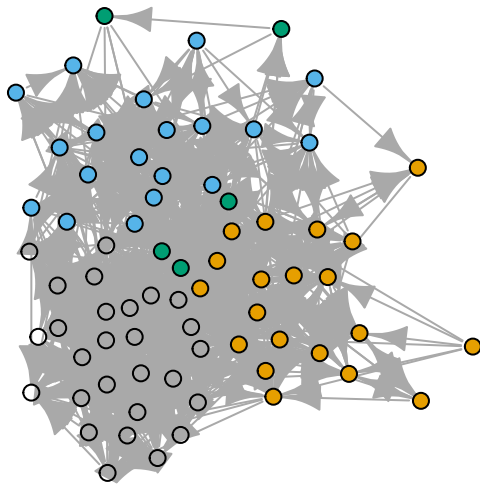
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## [51,] 0.3354687274 0.654544551 0.52839965 0.58419487 0.409031780
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## [64,] 0.3521834816 0.296367537 0.79465288 0.16002331 0.350789976
## [65,] 0.9994849980 1.213407693 1.25020907 0.76782068 1.670708591
## [66,] 2.3713732991 1.708463995 1.72473791 0.60339551 2.124571609
## [67,] 0.0000000000 1.915986881 1.84431109 0.79824022 2.464558651
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## [69,] 1.8443110935 1.569739369 0.00000000 1.02481441 1.818114504
## [70,] 0.7982402176 0.060866078 1.02481441 0.00000000 0.052836668
## [71,] 2.4645586515 1.824982371 1.81811450 0.05283667 0.000000000
```

```
#torch$argmax(prediction.model$results$y,dim=1L)$numpy()
```

## Louvain Modularity / LatentNet Clustering

```
sklearn<-import("sklearn")

# Louvain
cl.louvain<-run.louvain(net)
```



```
cl.gnn<-extract.clusters(cluster.model)

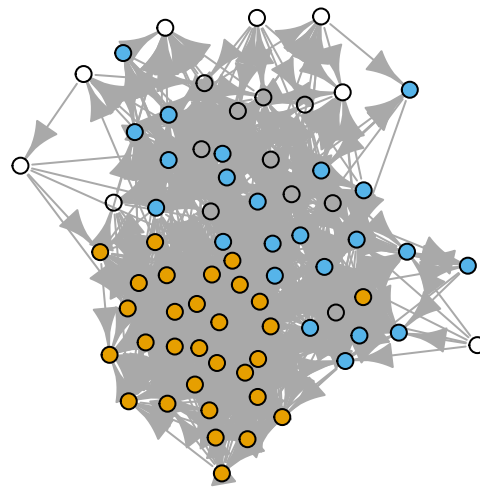
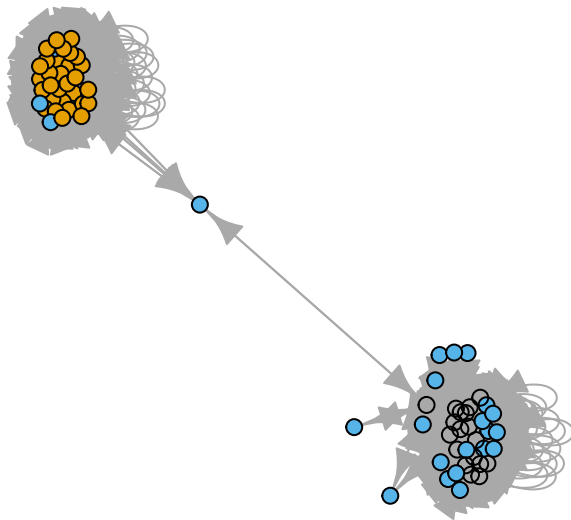
sklearn$metrics$normalized_mutual_info_score(cl.gnn,cl.louvain)

## [1] 0.5366622

plot(cluster.model)
```

**Predicted Network**

**Original Network**



```
# LatentNet
latent.cluster.fit<-ergm.network(net~rreceiver+rsender+bilinear(d=2,G=3),cluster.model, distance.metric)

## Warning in InitErgmm.bilinear(model = list(formula = net ~ rreceiver + rsender
## + : For a bilinear (inner-product) latent position effect, two actors being
## closer in a clustering sense does not necessarily mean a higher expected value
## of their relationship. Thus, clustering might not be interpretable.

summary(latent.cluster.fit)

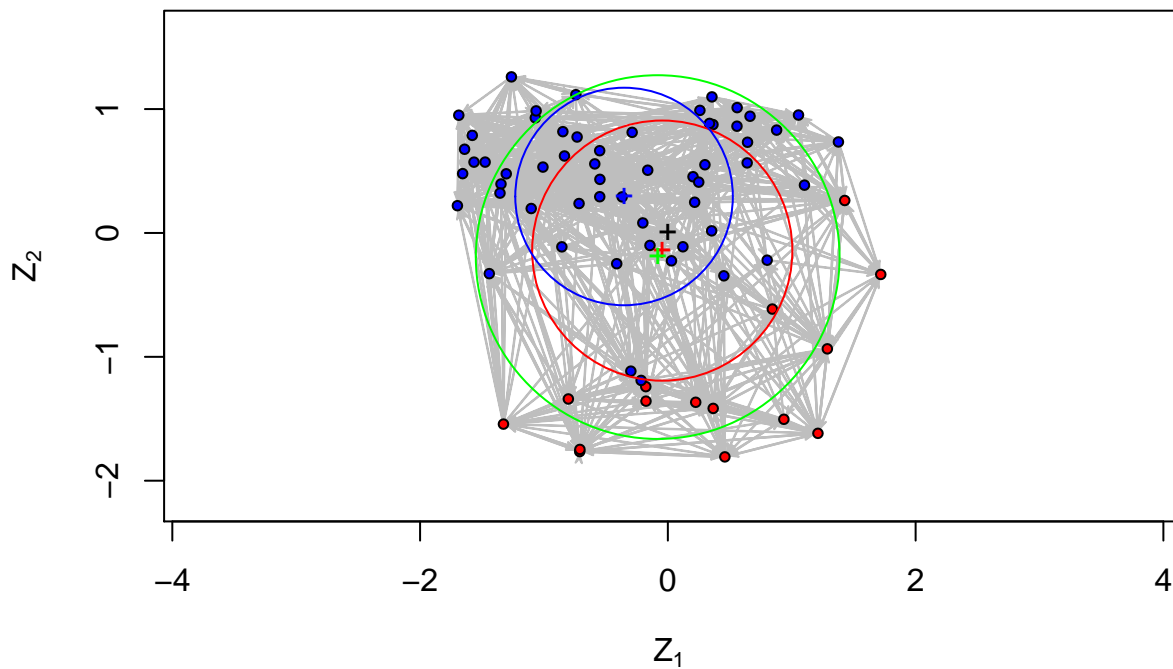
## NOTE: It is not certain whether it is appropriate to use latentnet's BIC to select latent space dimen
##
```

```
## =====
## Summary of model fit
## =====
##
## Formula: net ~ rreceiver + rsender + bilinear(d = 2, G = 3)
## <environment: 0x7fc8796d7908>
## Attribute: edges
## Model: Bernoulli
## MCMC sample of size 4000, draws are 10 iterations apart, after burnin of 10000 iterations.
## Covariate coefficients posterior means:
## Estimate 2.5% 97.5% 2*min(Pr(>0),Pr(<0))
## (Intercept) -2.4154 -2.7558 -2.0803 < 2.2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Sender effect variance: 0.7929105.
## Receiver effect variance: 0.8418661.
## Overall BIC: 3772.851
## Likelihood BIC: 3095.247
## Latent space/clustering BIC: 366.5042
## Sender effect BIC: 155.5628
## Receiver effect BIC: 155.5371
##
## Covariate coefficients MKL:
## Estimate
## (Intercept) -2.183117
```

```
plot(latent.cluster.fit)
```

### MKL Latent Positions of latent.cluster.fit

net ~ rreceiver + rsender + bilinear(d = 2, G = 3)



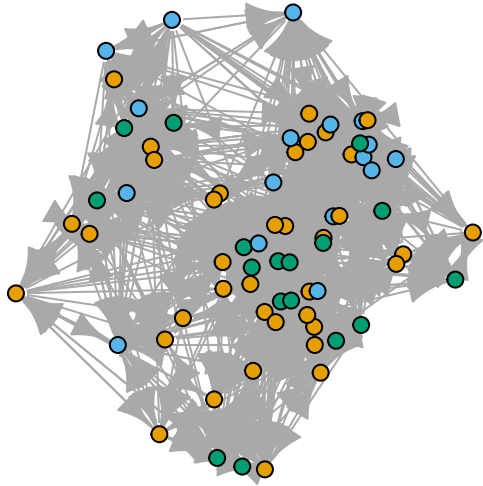
```
cl.latent.net<-latent.cluster.fit$mcmc.mle$Z.K
sklearn$metrics$normalized_mutual_info_score(cl.gnn,cl.latent.net)
```

```
## [1] 0.03298152
```

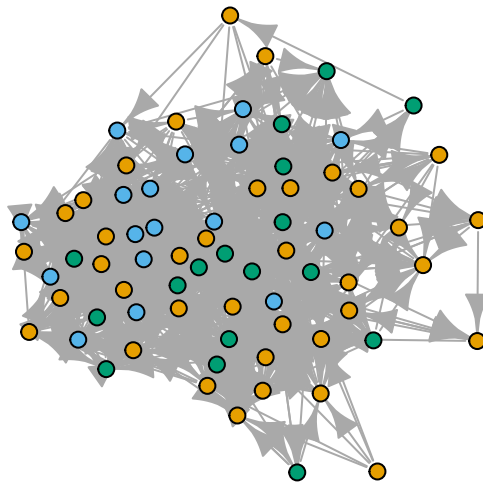
```
sklearn$metrics$normalized_mutual_info_score(cl.louvain,cl.latent.net)
```

```
## [1] 0.05721446
```

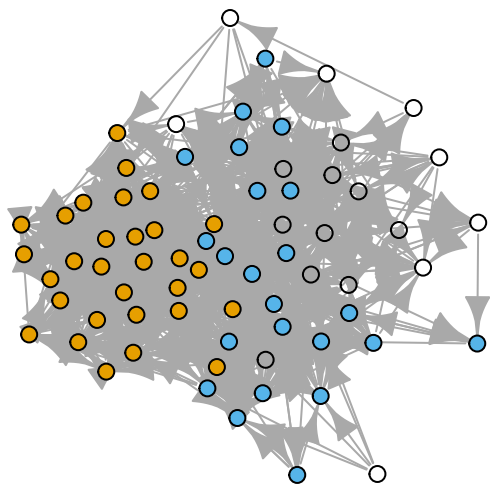
```
lo<-make.layout(latent.cluster.fit$mcmc.mle$Z)
plot.net(net,cl.latent.net,layout=lo)
```



```
set.seed(42)
plot.net(net,group=cl.latent.net)
```



```
set.seed(42)
plot.net(net,group=cl.gnn)
```



```
set.seed(42)  
plot.net(net,group=cl.louvain)
```

