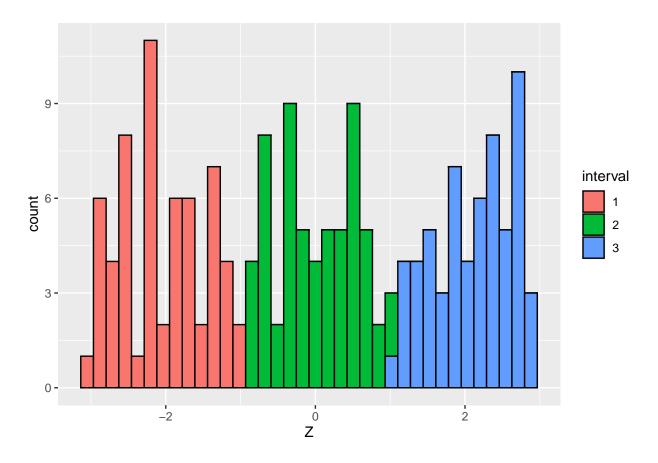
```
library(covdepGE)
library(ggplot2)
```

Warning: package 'ggplot2' was built under R version 4.1.3

```
# get the data
set.seed(12)
data <- generateData()
X <- data$X
Z <- data$X
Z <- data$Z
interval <- data$interval
prec <- data$true_precision

# get overall and within interval sample sizes
n <- nrow(X)
n1 <- sum(interval == 1)
n2 <- sum(interval == 2)
n3 <- sum(interval == 3)

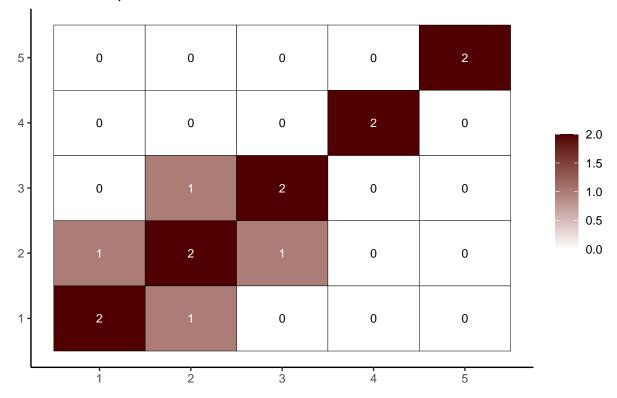
# visualize the distribution of the extraneous covariate
ggplot(data.frame(Z = Z, interval = as.factor(interval))) +
    geom_histogram(aes(Z, fill = interval), color = "black", bins = n %/% 5)</pre>
```



```
# visualize the true precision matrices in each of the intervals

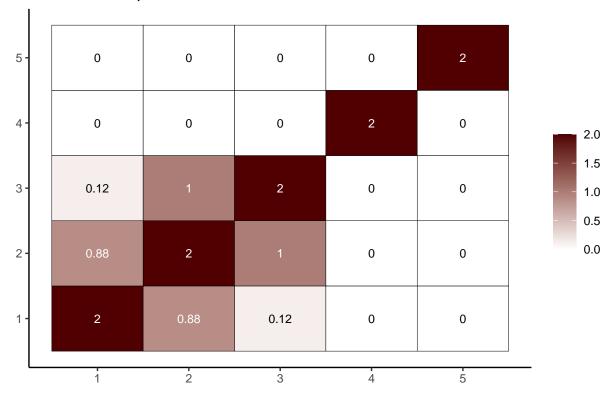
# interval 1
matViz(prec[[1]], incl_val = TRUE) +
ggtitle(paste0("True precision matrix, interval 1, observations 1,...,", n1))
```

True precision matrix, interval 1, observations 1,...,60



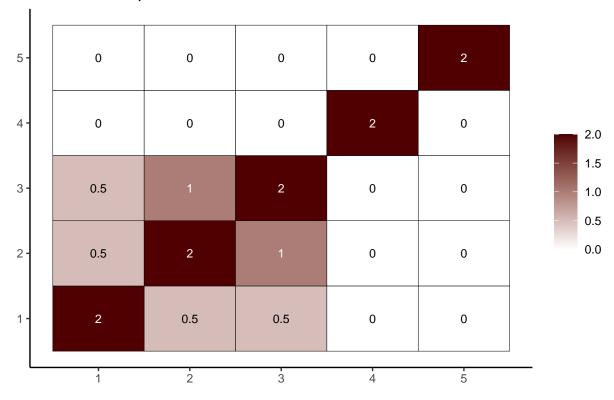
[[1]]

True precision matrix, interval 2, observation 65



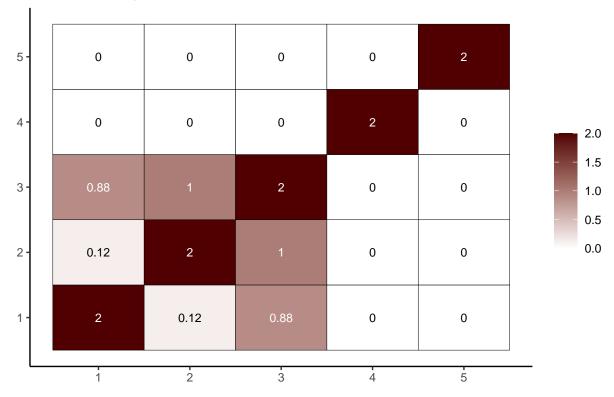
[[2]]

True precision matrix, interval 2, observation 90

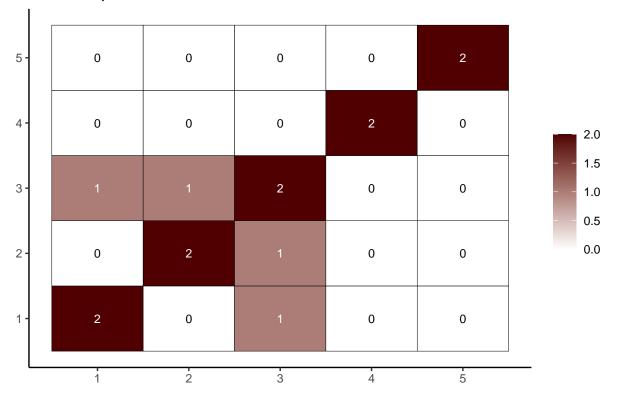


[[3]]

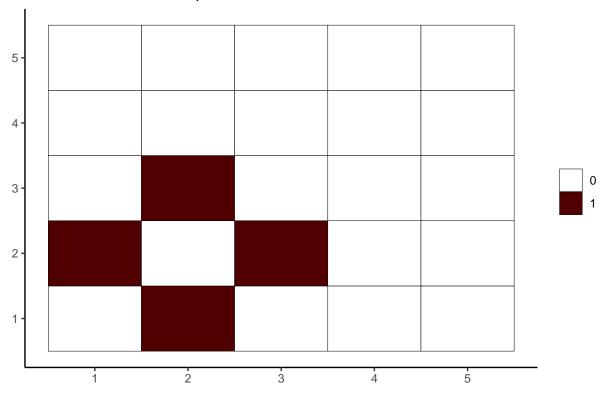
True precision matrix, interval 2, observation 115



True precision matrix, interval 3, observations 121,...,180

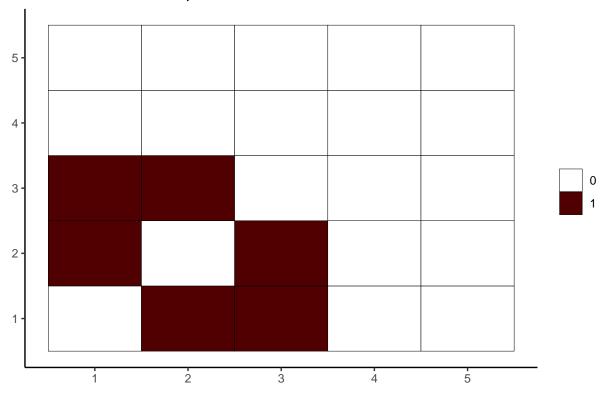


Graph 1, observations 1,...,39



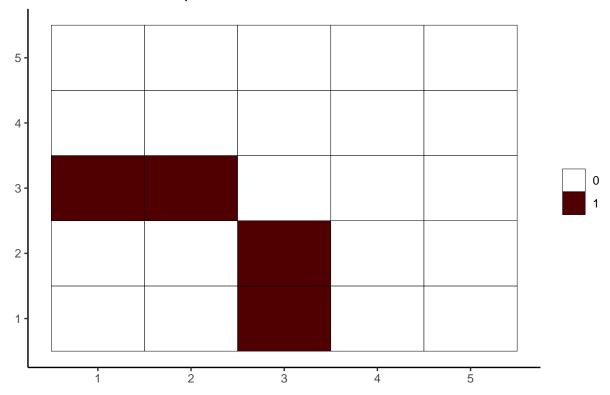
[[2]]

Graph 2, observations 40,...,110



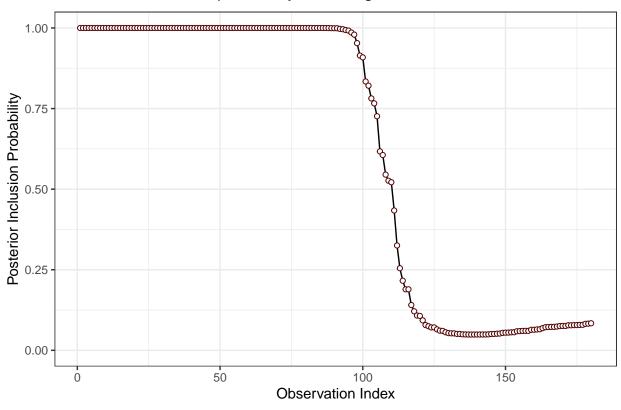
[[3]]

Graph 3, observations 111,...,180



visualize the posterior inclusion probabilities for variables (1, 3) and (1, 2)
inclusionCurve(out, 1, 2)

Inclusion probability of an edge between x_1 and x_2



inclusionCurve(out, 1, 3)

Inclusion probability of an edge between $x_1 \ \text{and} \ x_3$

