HW1\_Markdown

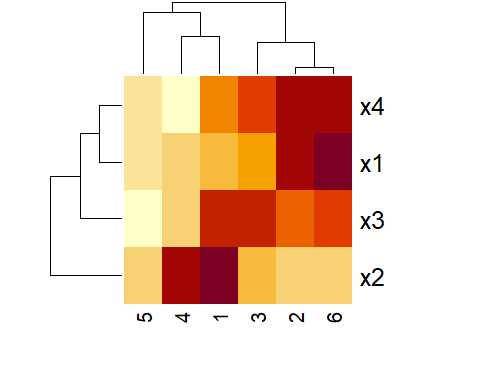
\*\*\* Setup \*\*\*

\*\*\* Roy’s Parts - Q1 \*\*\*

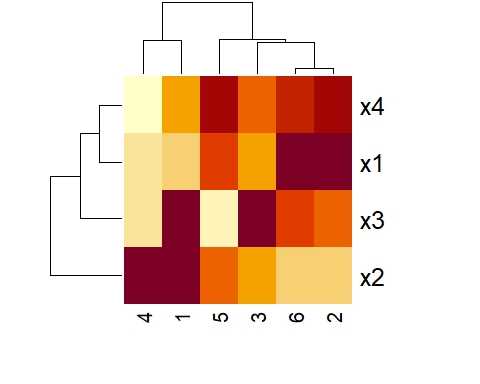
## FIX THIS

## Q1.2

tentative.normalization <- function(mat,npar){  
 max\_vector\_row <-apply(mat,1,max)  
 max\_vector\_col <-apply(mat,2,max)  
 if(npar==1){  
 return(mat/max\_vector\_row)  
 }  
 if(npar==2){  
 return(t(t(mat)/max\_vector\_col))  
 }  
   
 return(mat)  
}  
x1<-runif(6, min = 1, max = 20)  
x2<-runif(6, min = 1, max = 20)  
x3<-runif(6, min = 1, max = 20)  
x4<-runif(6, min = 1, max = 20)  
mat1<-rbind(x1,x2,x3,x4)  
sum\_of\_rows<-apply(mat1,1,sum)  
mat1.norm.rows<-tentative.normalization(mat1,1)  
mat1.norm.columns<-tentative.normalization(mat1,2)  
heatmap(mat1.norm.rows)



heatmap(mat1.norm.columns)



\*\*\* Q2 \*\*\*

## Q2.1  
data1.file <- file.path("./data1.csv")  
data2.file <- file.path("./data2.csv")  
data1 <- read.csv(data1.file)  
data2 <- read.csv(data2.file)  
  
## Q2.2  
data1\_type <- typeof(data1)  
print(data1\_type)

## [1] "list"

## Q2.3  
  
  
## Q2.4  
  
  
## Q2.5  
  
  
## Q2.6  
  
  
## Q2.7  
  
  
## Q2.8

Q.2 The type of data1 is *list*.

\*\*\* Alon’s Parts - Q3 \*\*\*