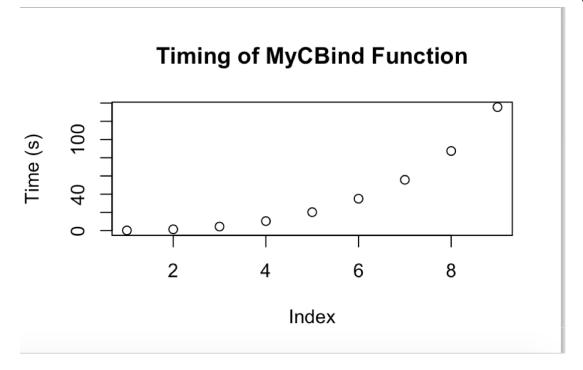
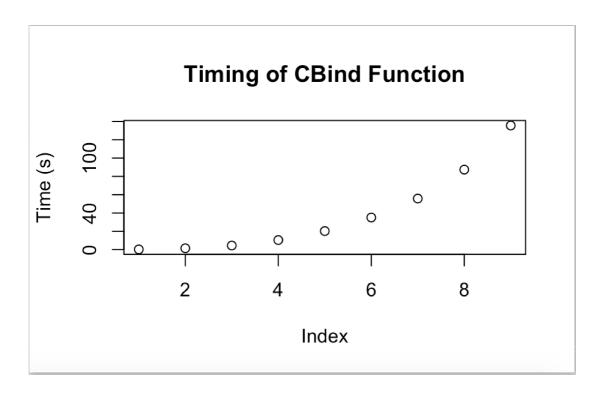
CSC433 Assignment 6 Sarah Cummings

Code:

```
mycbind<-function(X,Y){
      newRowCount<-sqrt(length(X))
      newColCount<-(2*newRowCount)
      vect < -c(X[,1])
      for(i in 2:newRowCount){
             vect<-c(vect,X[,i])
      for(i in 1:newRowCount){
              vect<-c(vect,Y[,i])
      newMatrix<-matrix(vect,nrow = newRowCount,ncol = newColCount)</pre>
      return(newMatrix)
}
points1<-c()
points2<-c()
for(i in c(200,400,600,800,1000,1200,1400,1600,1800)){
      X1<-matrix(runif(i *i), i, i)
      Y1<-matrix(runif(i *i), i, i)
      time1<-system.time(mycbind(X1,Y1),gcFirst = TRUE)
      newpoint<-time1[3]
      points1<-c(points1, newpoint)
      time2<-system.time(cbind(X1,Y1),gcFirst = TRUE)
      newpoint2<-time1[3]
      points2<-c(points2,newpoint2)
plot.default(points1, main = "Timing of MyCBind Function", ylab="Time (s)")
plot.default(points2, main = "Timing of CBind Function", ylab="Time (s)")
```

Graphs:





Summary:

As seen in the visuals, as well as in the vector print outs below, our times are the same for both methods of binding. I realize this is not the result I was supposed to get, but can't find my error. I emailed the professor and might turn in another version later. If you (the grader) happen to see my mistake, I would love to know what it is! Thanks.

> points1

elapsed 0.219 1.468 4.452 10.436 20.251 35.065 55.762 87.388 135.566 > points2

elapsed elapse