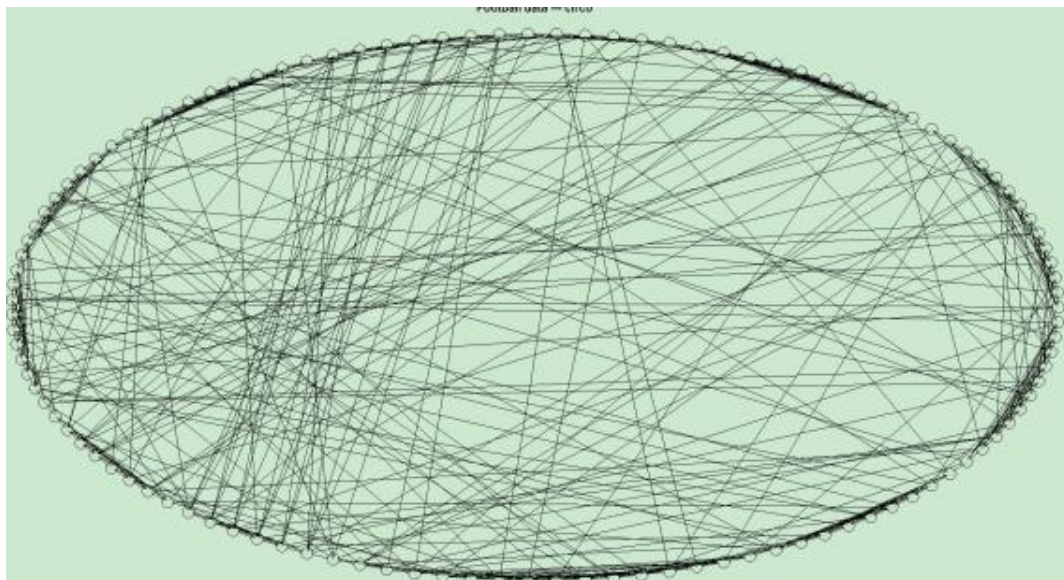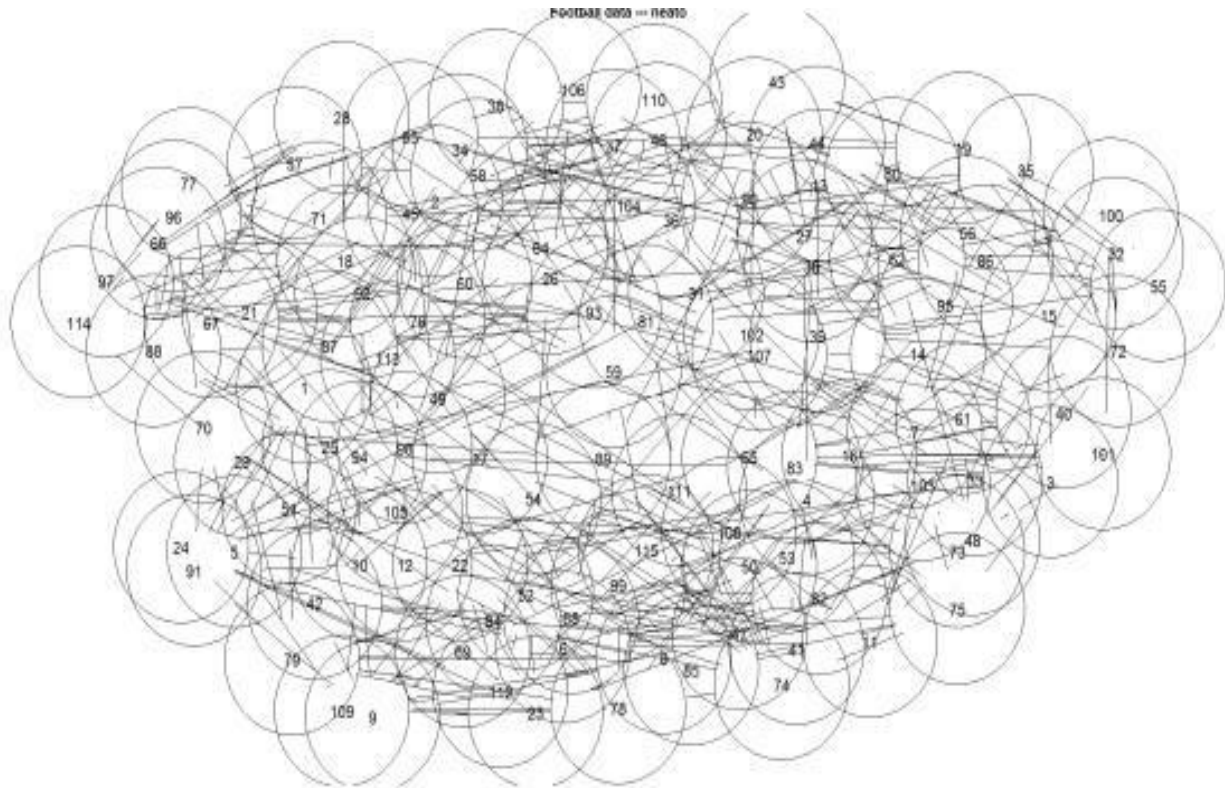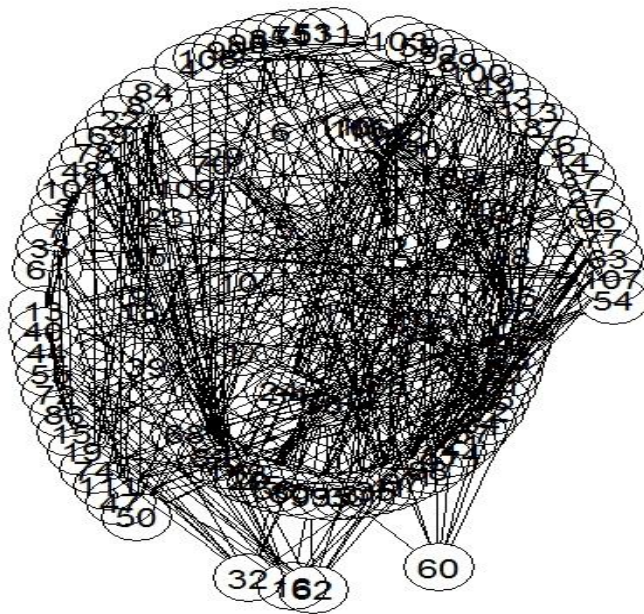Md. Abdullah-Al Mamun

Part H: Graph Visualization
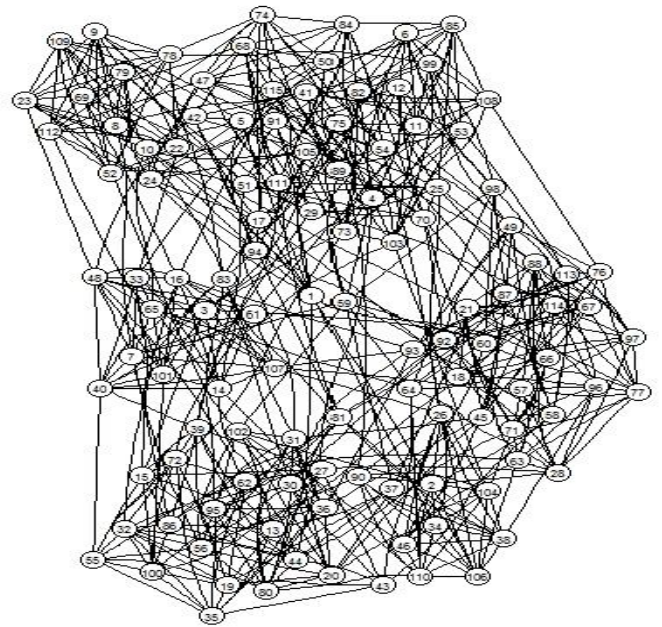## Problem H1: Graph Visualization Software

"Rgraphviz" package was implemented and the football data to has the following four plots. It Provides plotting capabilities for R graph objects.

Football data --- twopi

Football data --- fdp

In [ ]:

```r
a=readMat('football.mat')
b=as.matrix(a[[1]][[3]])
vertex=as.character(1:115)
g1 <- new("graphNEL", nodes=vertex, edgemode="undirected")
for (i in 1:115){
  ind = which(b[i,]>0)
  for (j in ind){
    g1=addEdge(vertex[i],vertex[j],g1,1)
  }
}
plot(g1,"neato")
title("Football data --- neato")
plot(g1, "circo")
title("Football data --- circo")
plot(g1, "twopi")
title("Football data --- twopi")
plot(g1, "fdp")
title("Football data --- fdp")
```