import networkx as nx

import matplotlib.pyplot as plt

def remove(g):

dict1=nx.edge\_betweenness\_centrality(g)

list\_of\_tuples=dict1.items()

list\_of\_tuples.sort(key=lambda x:x[1],reverse=True)

return list\_of\_tuples[0][0]

def girvan(g):

c=list(nx.connected\_component\_subgraphs(g))

l=len(c)

print l

while(l==1):

g.remove\_edge(\*remove(g))

c=list(nx.connected\_component\_subgraphs(g))

l=len(c)

print l

return c

g=nx.gnp\_random\_graph(10,0.5)

nx.write\_gml(g,'case.gml')

nx.draw\_shell(g,with\_labels=1)

plt.show()

c=girvan(g)

for i in c:

print i.nodes()