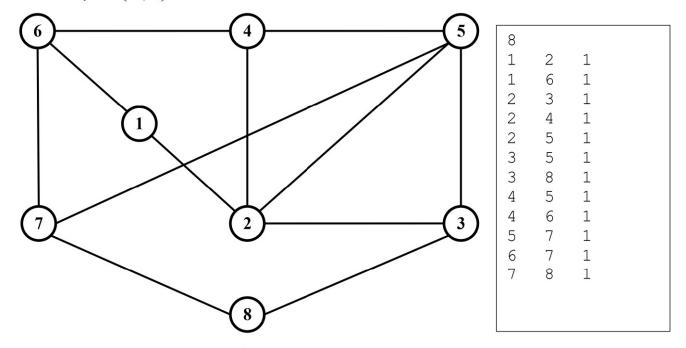
```
CHƯƠNG TRÌNH:
G = []
             -----#
#----
def Init(path,G):
   f = open(path)
   n = int(f.readline(),base=10)
   for i in range(n+1):
       G.append([])
       for j in range(n+1):
          G[i].append(0)
   while True:
       string = f.readline()
       if not string:
          break
       string = string.replace('\t',' ')
       k = string.index(' ')
       str = string[0:k]
       i = int(str,base=10)
       m = string.index('',k+1,-1)
       str = string[k+1:m]
       j = int(str,base=10)
       str = string[m+1:len(string)]
       x = int(str,base=10)
       G[i][i] = G[i][i] = x
   f.close()
   return n
#----#
def ViewMatrix(G,n):
   for i in range(1, n + 1):
       for j in range(1, n + 1):
          print("%d" % G[i][j], end = ' ')
       print()
#----#
#Duyet teo chieu rong BFS - Breadth First Search
```

```
def BFS(u,n):
    Q = []
    C = []
    for j in range(n + 1):
        Q.append(0)
        C.append(0)
    first = 1
    last = 1
    Q[last] = u
    C[u] = 1
    while first <= last:
        u = Q[first]
        first = first + 1
        print("%d" % u, end = '\t')
        for v in range(1, n + 1):
            if G[u][v] != 0 and C[v] == 0:
                last = last + 1
                Q[last] = v
                C[v] = 1
#-----
def main():
    n = Init("data\Graph1.inp",G)
    print("Xem ma trận G:", end = '\n')
    #ViewMatrix(G,n)
    u = 3
    BFS(u,n)
if __name__=="__main__":
    main()
```

DATA:

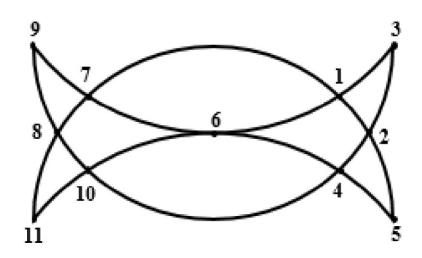
Cho đồ thị G=(V,E) như sau:

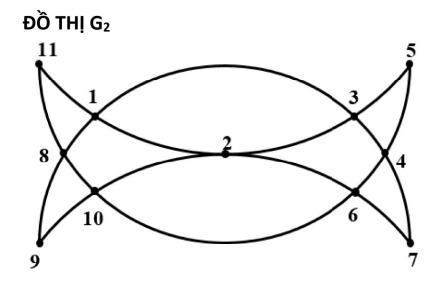
Cho đồ thị G=(V,E) như sau:

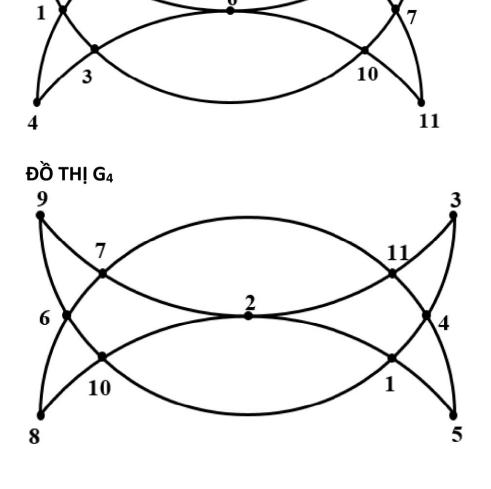


Tạo file Graph.inp để lưu trữ đồ thị

TẠO FILE DỮ LIỆU DUYỆT THEO CHIỀU SÂU CÁC ĐỒ THỊ SAU ĐỒ THỊ G_1







Đồ THỊ G₃