```
def isSafe(graph, color):
   for i in range(n):
     for j in range(i + 1, n):
        if (graph[i][j] and color[j] == color[i]):
           return False
        return True

def graphColoring(graph, m, i, color):
   if (i == n):
     if (isSafe(graph, color)):
        display(color)
        return True
     return False
   for j in range(1, m + 1):
     color[i] = j
     if (graphColoring(graph, m, i + 1, color)):
        return True
     color[i] = 0
     return False

def display(color):
   print("1")


n=int(input())
m=int(input())
e=int(input())
graph=[]
for i in range(n):
   a=[]
   for j in range(n):
        a.append()
        graph.append(a)
        for i in range(e):
           a=int(input())
           b=int(input())
           graph[a][b]=1
           graph[b][a]=1

color = [0 for i in range(n)]
if (not graphColoring(graph, m, 0, color)):
   print ("0")
```