```java
import java.util.*;
public class Main
{
    public boolean isPossible(boolean [][] graph,int []color,int node,int col,int n)
    {
        for(int i =0;i<n;i++)
        {
            if(graph[node][i] && color[i]==col)return false;
        }
        return true;
    }
    public boolean solve(int node,boolean [][] graph,int []color,int m,int n)
    {
        if(node ==n) return true;
        for(int i =1;i<=m;i++)
        {
            if(isPossible(graph,color,node,i,n))
            {
                color[node]=i;
                if(solve(node+1,graph,color,m,n))return true;
                color[node]=0;
            }
        }
        return false;
    }
    public boolean graphColoring(boolean graph[][], int m, int n)
    {
        int []color = new int[n];
        return solve(0,graph,color,m,n);
    }
    public static void main(String[] args)
    {
        Scanner input= new Scanner(System.in);
        int n = input.nextInt();
        int m = input.nextInt();
        int e = input.nextInt();
        int a,b;
        boolean graph[][] = new boolean[n][n];
        for(int i=1 ; i<=e ; i++)
        {
            a = input.nextInt();
            b = input.nextInt();
            graph[a][b] = true;
            graph[b][a] = true;
        }
        Main obj = new Main();
        if(obj.graphColoring(graph,m,n))
        System.out.print("1");
        else
        System.out.print("0");
    }
}
```