```java
import java.util.Scanner;

public class Day84 {
    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 sc = new Scanner(System.in);
        int n = sc.nextInt();
        int m = sc.nextInt();
```

```java
        int e = sc.nextInt();
        int a, b;
        boolean[][] graph = new boolean[n][n];
        for (int i = 1; i <= e; i++) {
            a = sc.nextInt();
            b = sc.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");
    }
}
```