

The first line of input contains three space-separated integers N, M, and Q ($1 \le N$, M, $Q \le 10^5$).

Next M lines contain two space-separated integers u and v $(1 \le u, v \le N)$.

Each of the next Q lines contains queries of one of the types as described in the statement.

Output Format

Print Q lines as the answer to the Q queries, each on a new line.

Canatrainta

```
C++14
                   00:00:00
                                   12 px ∨
     #include<bits/stdc++.h>
     using namespace std;
     #define endl "\n"
     using lli=long long int;
     lli m = 1e9 + 7;
6
     vector<vector<int>>q;
     vector<int>vis;
9
     vector<int>color:
10
     vector<int>colnum;
11
     void dfs(int node,int col){
12
         vis[node]=1;
13
         color[node]=col;
14
         colnum[col]++;
15
         for(auto i:g[node]){
16
             if(!vis[i]){
17
                  dfs(i,col);
  Sample Tests
                  Manual Tests
 Test Case 1
 Input
  655
  12
  23
  13
  44
                      Run on Sample
    Console
```