## 04/24/18 10:58:41 D:\git-repos\data-structure-homework\07\e20.cpp

```
#include <cstdio>
    #include <cstring>
    #include <vector>
 3
    #define MXN 107
 5
    using namespace std;
 6
    vector<int> v[MXN];
7
    bool tag[MXN];
 8
    int n, m;
9
    int x;
10
    bool dfs(int root, int dep, int target, int k) {
11
         if (dep > k) return false;
         if (target == root && dep == k) return true;
12
         for (auto i : v[root]) {
13
             if (!tag[i]) {
14
15
                  tag[i] = true;
16
                  if (dfs(i, dep + 1, target, k))
17
                      return true;
18
                  tag[i] = false;
19
20
21
         return false;
22
    int main() {
23
         scanf("wd %d", &n, &m);
24
25
         for (int i = 0; i < m; ++i) {
             int a, b;
scanf("%d %d", &a, &b);
26
27
28
             v[a].push_back(b);
29
             v[b].push_back(a);
30
31
         int a, b, k;
         while (~scanf("%d %d %d", &a, &b, &k)) {
32
             memset(tag, 0, sizeof(tag));
33
34
             tag[a] = true;
             puts(dfs(a, 0, b, k) ? "YES" : "NO");
35
         }
36
    }
/**
37
38
     root \blacktriangleright ... \gt git-repos \gt data-structure-homework \gt 07 \blacktriangleright g++ e20.cpp -std=c++11 root \blacktriangleright ... \gt git-repos \gt data-structure-homework \gt 07 \blacktriangleright ./a.out
39
40
41
    7
42
    11
43
   5 6
44
    5 7
45
    7 6
46
    6 2
47
    7 4
48
    2 4
49
    2 3
50
    4 1
    1 2
51
52
    3 1
53
   4 3
54
   1 4 5
55
   YES
56
   1 4 6
57
    YES
58
    1 4 7
59
    NO
60
    6 4 5
61
   NO
    6 4 3
62
    YES
63
64
    6 4 4
    YES
65
    ^Z
66
67
    [1] + 1112 suspended ./a.out
     68
69
```