ADAlab Online Judge

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Contests

-∕⊷ Status

■ Randx101109107 ▼

- ♠ About ∨
 - G may not be connected.
 - G doesn't have multiple edges and self-loops.

There are n vertices in V, denoted by 1, 2, ..., n.

Please answer two classes of queries:

- ullet D u : Asking the degree of vertex u in graph G . Print the degree in a line
- $\bullet\,$ N $u\,v$: Asking if $u,\,v$ are neighboring vertices in graph G . If yes, print a line "Y". Otherwise, print a line "N".

Input

The first line contains three integers n, m and q — the size of V, the size of E and the number of queries.

Each of the following m lines contains two integers u_i and v_i ($1 \le u_i, v_i \le n$; $u_i / = v_i$), being an edge in E.

In the following q lines, each line contains one query described above.

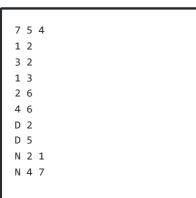
Restrictions

- $2 < n < 10^6$
- $1 \le m \le min(\frac{n(n-1)}{2}, 10^6)$
- 1 < q < 5000

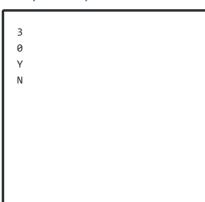
Output

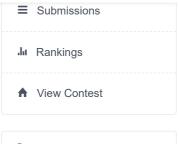
For each query, output one line.

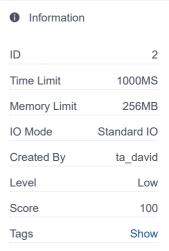
Sample Input 1 🖹

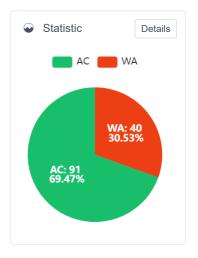


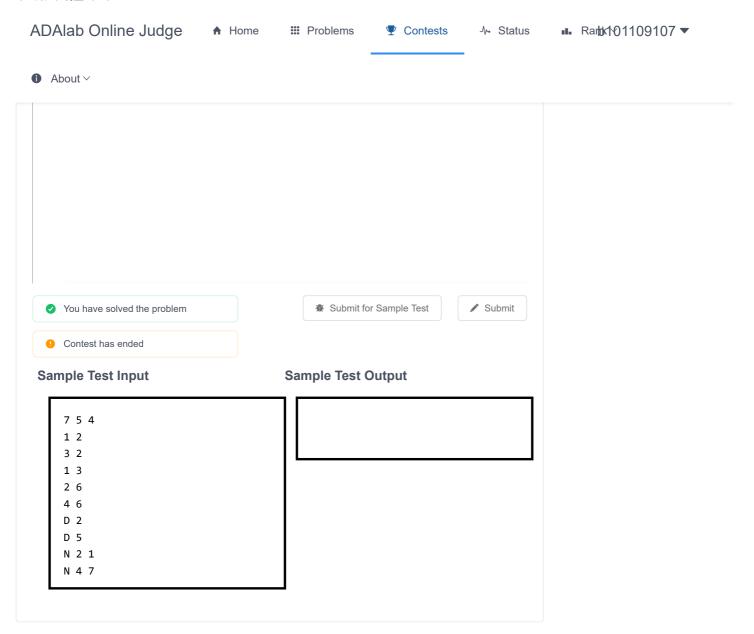
Sample Output 1











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