



02:23:36:23 HRS MIN

# Codathon - Inter NIT Coding Contest 2018

Jan 15, 2018, 06:00 PM IST - Jan 22, 2018, 06:00 PM IST

**INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE** ← Problems / DAY 5 - Burning bridges DAY 5 - Burning bridges

Max. Marks: 100

You are given a map which contains N islands that are connected by M bridges. You are also given Qqueries, each of which specify an island to be deleted. Once an island is deleted, all the bridges (if any) connected to the island are also deleted.

Write a program to find the number of pairs of islands that are no longer connected after each query is implemented.

#### Note:

For each new query, assume the initial unmodified map.

### Input format

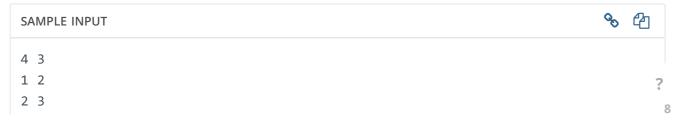
- ullet First line: Two space-separated integers N and M
- Next M lines: Two space-separated integers A and B (denoting a bridge between A and B
- Next line: Q
- ullet Next Q lines: Integer i denoting the island to be deleted

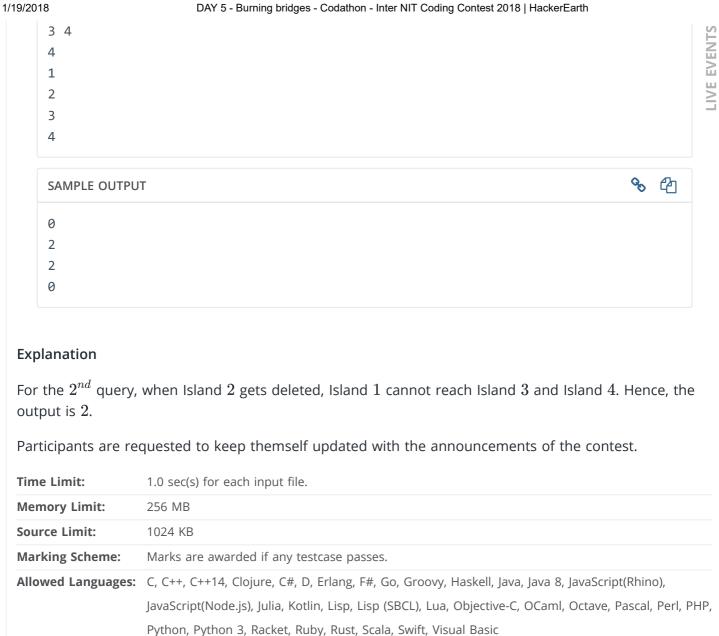
### **Output format**

For each query, print the number of pairs of disconnected islands.

#### **Constraints**

$$egin{aligned} 1 & \leq N, Q \leq 10^5 \ 1 & \leq A, B \leq N \ 0 & \leq M \leq max(10^5, N \cdot (N-1)/2) \end{aligned}$$





## **CODE EDITOR**

```
C (gcc 5.4.0)
Enter your code or Upload your code as file.
                                        Save
1
 2
   // Sample code to perform I/O:
 3
4 scanf("%s", name);
                                    // Reading input from STDIN
   printf("Hi, %s.\n", name);
                                    // Writing output to STDOUT
 5
   // Warning: Printing unwanted or ill-formatted data to output will cause the test
7
8
   */
   // Write your code here
10
11
                                                                                 ?
```