Q Search

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Distance

Problem Submissions Leaderboard Discussions

Problem Statement

You will be given an undirected graph as input. You will be given a query Q, for each query you will be given a source S and a destination D. You need to tell the minimum distance from source to destination for each query.

Note: If there is no path in between the source and destination, print -1.

Input Format

- First line will contain N, the number of nodes and E, the number of edges. The value of nodes will be from 0 to 10⁵.
- Next E lines will contain A, B which means there is a edge between node A and B.
- Next line will contain **Q**, the number of queries.
- For each query every line will contain S and D.

Constraints

- 1. 1 <= **N, E** <= 1000
- 2. 1 <= **Q** <= 1000
- 3. 0 <= **S, D** <= 10^5

Output Format

• Output the minimum distance from source to destination for each query.

Sample Input 0

- 6 7
- 0 1
- 0 2
- 1 2
- 1 2
- 3 5
- 4 3
- 0 5
- 1 5
- 2 52 3
- 1 4
- 0 0

Sample Output 0

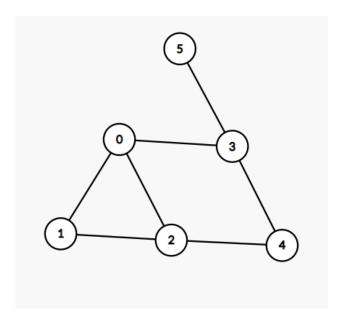
2 3

3 2

2 0

Explanation 0

In this test case, the graph is given below.



Sample Input 1

7 6

1 2

0 3

4 2

4 3

4

3 10 2 6

0 6 0 10

Sample Output 1

-1

-1

-1 -1

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Submissions: 187 Max Score: 20 Difficulty: Easy

Rate This Challenge: ☆☆☆☆☆

```
More
                                                                               C++20
                                                                                                               \Box
   1 ▼#include <bits/stdc++.h>
   2
   3
      using namespace std;
   4
   5
   6
   7
     int main()
   8 ▼{
   9
          // Write your code here
  10
          return 0;
  11
  12 }
  13
                                                                                                        Line: 1 Col: 1
<u>♣ Upload Code as File</u> Test against custom input
                                                                                          Run Code
                                                                                                       Submit Code
```

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