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Lost Cake

Problem Code: CAKE



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Our chef just started working in a huge hotel. The hotel can be thought of as a set of R rooms, numbered from 1 to R, interconnected by C connections represented as a (ri, rj) room ri and rj are connected. To establish himself, he prepared an awesome cake for some very important guests. However, the delivery boy made a mistake. Instead of delivering the cake to room D, where those important guests are staying, he delivered the cake to room S. After much searching our Chef found the cake in room S. Now, he has to know the minimum of rooms that the Chef will need to travel through, to reach room D(including the final room).

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Input/Output

- N Number of rooms in hotel
- E Number of connections between the rooms
- S The room where the cake was delivered
- D The room where the cake is to be delivered

Array A, B - A[i], B[i] represents a connection between rooms A[i] and B[i].

First line of the input is T, the number of test cases

Second line of the input will be space separated N E S D

Next E lines will have Ai Bi space separated

The above format will be repeated of the next testcase as well.

Constraints

0 < T <= 50 0 < N <= 10000 0 < E <= 40000

Example

lost_cake(7, 10, 4, 5, {1, 1, 1, 1, 2, 3, 3, 4, 5, 5}, {5, 3, 2, 4, 3, 4, 7, 6, 6, 7}) should return

Sample Input File

7 10 4 5 1 5 1 3 1 2 1 4 2 3 3 4 3 7 4 6 5 6 5 7

Output

Author: directi campus (/users/directi campus)

directi_campus (/tags/problems/directi_campus) Tags:

Date Added: 5-08-2012 Time Limit: 2 secs Source Limit: 50000 Bytes Languages: C, CPP 4.3.2, JAVA, PYTH, PYTH 3.5

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CodeChef (http://www.codechef.com) - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section (https://www.codechef.com/problems/easy) - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

Compete (https://www.codechef.com/problems/easy) - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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Problem Setting (http://www.codechef.com/problemsetting)

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Domain Registration in India (http://www.bigrock.in/) and Web Hosting (http://www.bigrock.com/web-hosting/) powered by BigRock