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ONLINE EDITOR (C)

Roads Required

+ Problem Description

President Chew Barka rules over puppy Land. Elections are near, and he has not done much. The President wants to be reelected again.

He knows some states where he most definitely will lose. He needs to do something for these people. A state is a group of cities, which is connected with any other city. Now, commutation is a serious problem for citizens, and there is only one road for transportation between any two cities in a state. He knows if he connects all cities with each other in a state by roads, the citizens of state will be very happy and vote him again.

He sends Sherlock Bones to figure out how many roads they have to build in every state for gaining the trust of the people. Help Sherlock Bones to find out the count of required roads.

+ Constraints

 $N \le 10^5$

 $M \le N(N-1)/2$

+ Input Format

N: Number of Cities in the country

M: Number of roads connecting various cities

u, v: Roads from city u to v

+ Output

Number of roads required to be laid, to win all states

- + Test Case
- + Explanation

Example 1

- 7 5
- 12
- 13
- 24
- 56
- 57

Output

Δ

Explanation

There are 7 cities and 5 roads. Cities 1,2,3,4 form one state and cities 5,6,7 forms another state, thus there are 2 states. State 1 is connected by 3 roads. State 2 is connected by 2 roads. State 1 requires 3 more roads and State 2 requires 1 more road so that all the cities in the state are connected.

Upload Solution [Question : C]

□ I, ranick patra confirm that the answer submitted is my own. □ Took help from online sources (attributions)

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