



KOTLIN HEROES Z DASHA Z CONTESTS **PROBLEMSET** GROUPS RATING API HELP CALENDAR HOME TOP GYM

MY SUBMISSIONS STATUS PROBLEMS SUBMIT CODE HACKS ROOM STANDINGS CUSTOM INVOCATION

D. Cow and Snacks

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

The legendary Farmer John is throwing a huge party, and animals from all over the world are hanging out at his house. His guests are hungry, so he instructs his cow Bessie to bring out the snacks! Moo!

There are n snacks flavors, numbered with integers $1, 2, \ldots, n$. Bessie has n snacks, one snack of each flavor. Every guest has exactly two favorite flavors. The procedure for eating snacks will go as follows:

- · First, Bessie will line up the guests in some way.
- · Then in this order, guests will approach the snacks one by one.
- Each guest in their turn will eat all remaining snacks of their favorite flavor. In case no favorite flavors are present when a guest goes up, they become very sad.

Help Bessie to minimize the number of sad guests by lining the guests in an optimal way.

The first line contains integers n and k ($2 \le n \le 10^5$, $1 \le k \le 10^5$), the number of snacks and the number of guests.

The *i*-th of the following *k* lines contains two integers x_i and y_i ($1 \le x_i, y_i \le n, x_i \ne y_i$), favorite snack flavors of the i-th guest.

Output

Output one integer, the smallest possible number of sad guests.

Examples

input	Сору
5 4	
1 2	
4 3	
1 4	
3 4	
output	Сору
1	
input	Сору
6 5	
2 3	
2 1	
3 4	
6 5	
4 5	
output	Сору

Note

In the first example, Bessie can order the guests like this: 3, 1, 2, 4. Guest 3 goes first and eats snacks 1 and 4. Then the guest 1 goes and eats the snack 2 only, because the snack 1has already been eaten. Similarly, the guest 2 goes up and eats the snack 3 only. All the snacks are gone, so the guest 4 will be sad.

In the second example, one optimal ordering is 2, 1, 3, 5, 4. All the guests will be satisfied.

Codeforces Round #584 - Dasha Code **Championship - Elimination Round** (rated, open for everyone, Div. 1 + Div. 2) Contest is running

01:21:14

Contestant

→ Submit? Language: GNU G++11 5.1.0 Choose 选择文件 未选择任何文件 file:

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

→ Score table		
	Score	
Problem A	404	
<u>Problem B</u>	404	
Problem C	1010	
Problem D	1212	
Problem E1	808	
Problem E2	1212	
Problem F	2020	
Problem G1	1212	
Problem G2	1818	
Problem H	3232	
Successful hack	100	
Unsuccessful hack	-50	
Unsuccessful submission	-50	
Resubmission	-50	

^{*} If you solve problem on 01:00 from the first attempt

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