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Tidke In Trouble

Problem Code: JCWC03



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Once upon a time, there existed a kingdom called Buzzland. Since Buzzland was too large, the emperor of this kingdom, Lord Shivam Balikondwar III could not solve the administration problem. So he hired up, the greatest empire planner of that time, Shubham Tidke. Tidke suggested the empire can be divided into N cities and N-1 bidirectional roads connecting the cities to every city. The Emperor trusted Tidke and began the construction of roads. To ensure proper construction is being done, Tidke assigned a integer between 1 to 100 to every road of the kingdom depending on how much construction was done till that time. It represents the amount of work done in percentage.

Now, Lord Shivam suddenly felt he should check the construction process! Lord Shivam can choose a city at random. Let's say, he chose city X. Then he would travel from city X to every other city in his empire. After choosing a city X, for every other city Y, consider that he is inspecting the roads on the path from city X to city Y, if he finds the construction done of two adjacent roads along this path is same, he will punish Tidke! You, on the other hand, are Tidke's best friend. You don't want him to get punished. So you suggest Lord Shivam a set of cities of size M, such that Lord Shivam can choose any city from this set without getting Tidke punished. Also, let's say that if the set consists of more than one city, for any two cities of this set, X and Y, the path between these two cities contains cities from the this set only! The path between the cities X and Y (X and Y belonging to a set), should not contain a city which is not present in the respective set. You don't have to print the set. Just print maximum size of that set which will help you to save Tidke.

Input:

- ullet First line will contain T, number of testcases. Then the testcases follow.
- ullet For every testcase, first line contains number of cities N
- Next N-1 lines follow three space separated integers $X\ Y\ C$, denoting there exists a road between cities X and Y and the integer assigned to it.

Output:

For each testcase, output the maximum size of possible set of cities.

Constraints

- $1 \le T \le 10$
- $1 \le N \le 10^5$
- $1 \le C \le 100$

Sample Input:

My Submissions All Submissions (/JCWR2019/status/JCWC03/sky/a/ka/2019/status/JCWC03/sky/a/ka/2019/sky/atus/JC

Successful Submissions

2	
6	
1 2 10	
2 3 10	
2 4 20	
4 5 40	
4 6 30	
4	
1 2 10	
2 3 10	
3 4 10	

Sample Output:

0

Explanation:

testcase1: The sets which satisfy given condition are $\{2\},\{4\},\{6\},\{2,4\},\{4,6\},\{4,5\},$ {2,4,5},{2,4,6},{5,4,6},{2,4,5,6}. Maximum size is 4. testcase 2: any city chosen leads to Tidke getting punished.

Author: 5* buzz 95 (/users/buzz 95)

15-08-2019 Date Added:

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.6, PYPY, CS2, PAS fpc, PAS

> gpc, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM gobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, SQL, kotlin, PERL6, TEXT, SCM chicken, PYP3, CLOJ, R, COB, FS

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