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Shopee Logistics

Max. score: 20

We have a lot of interesting tasks at Shopee. One of them is a logistics problem. In this problem we need to deliver goods from the hub to the final customer. But before that we can move goods between the hubs. Shopee has a giant network of hubs but in this task will be used the network with N hubs and $N - 1$ routes between hubs. Each hub is reachable from any other hub.

One of the problems of logistics is to optimise network. Before optimising we need to do some research and find some routes with problems. For example, find the largest path and make a route between two hubs the most distant. We are calling it “The longest path”.

In this task we are asking you to find the second longest path in the Shopee network.

Don't need to output the path! We need only the length!

Input

Input starts with an integer N ($5 \leq N \leq 10^5$), denoting the number of hubs. Next $N - 1$ lines contain three values: two hubs and the route length between them. $L_i \leq 10^5$.

Output

Print one line. The length of the second longest path.

SAMPLE INPUT

51 2 52 3 12 4 22 5 3

SAMPLE OUTPUT

7

Explanation

The longest path will be 1->2->5: (8). The second longest path will be 1->2->4. (7)

Time Limit:

1.0 sec(s) for each input file.

Memory Limit:

128 MB

Source Limit:

1024 KB

Marking Scheme:

Score is assigned when all the testcases pass.

Allowed Languages:

Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Python 3.8, R(RScript), Racket, Ruby, Rust, Scala, Swift-4.1, Swift, Visual Basic

RECENT SUBMISSIONS

DEVELOPERS

RESULT

LANGUAGE

View All

CODE EDITOR

Save C (gcc 5.4.0)

```
1  /*
2  // Sample code to perform I/O:
3  #include <stdio.h>
4
5  int main(){
6      int num;
7      scanf("%d", &num);           // Reading input from STDIN
8      printf("Input number is %d.\n", num);    // Writing output to STDOUT
9  }
10
11 // Warning: Printing unwanted or ill-formatted data to output will cause the test cases
to fail
12 */
13
14 // Write your code here
15
```

1:1 vscode

☒ Provide custom input

COMPILE & TEST

SUBMIT

🔧 Tip: You can submit any number of times you want. Your best submission is considered for computing total score.

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