Papa Pandu

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Problem Submissions Leaderboard Discussions

Pandu is a little bit low on luck and always gets into trouble , So he is popularly know an Papa Pandu.

Pandu lives in a street full of dogs which consists of n intersections connected by n-1 roads, in a way that can go from any intersection to any other intersection moving along some of these roads.

Every day he starts walking in the Street following his crazy strategy,if he's at some intersection he has to pick one of the roads connected to it at random such that he hasn't walked through it before and walk through it and and if there isn't any, he stops and goes home.

Pandu is afraid of dogs, He doesn't even like seeing dogs ,their is a history for that lets not concentrate on that. So he's wondering in the worst scenario, how many dogs he'll have to see during his walk until he stops if he starts walking at some intersection. Can you help Pandu to reduce is troubles.

Input Format

The input starts with an integer T , the number of test cases. following T blocks describing each test case.

Each block starts with a line containing an integer n, the number of intersections in the city. Intersections are numbers 1 through n.

Followed by n-1 lines each containing integers u, v and d , the numbers of intersections at the end of this road and the number od dogs Eagle will see walking in this road.

Constraints

- (1 <= T <= 10)
- (2 <= n <= 10^5)
- (1 <= d <= 109)
- (1 <= u, v <= n)

Output Format

For each test case print a line containing n integers, the ith integer represents the maximum number of dogs Eagle might see if he starts his walk at intersection i.

Sample Input 0

```
1
4
1 2 3
3 2 4
3 4 5
```

Sample Output 0

```
12 9 7 12
```

Contest ends in 7 hours

Submissions: 0
Max Score: 22

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Current Buffer (saved locally, editable) C++14

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

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