## Problem H. Around the World

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 1 second |
| Memory limit: | 1024 megabytes |

In ICPCCamp, there are $n$ cities and ( $n-1$ ) (bidirectional) roads between cities. The $i$-th road is between the $a_{i}$-th and $b_{i}$-th cities. It is guaranteed that cities are connected.
Recently, there are $2 \times c_{i}-1$ new roads built between the $a_{i}$-th and $b_{i}$-th cities. Bobo soon comes up with an idea to travel around the world! He plans to start in city 1 and returns to city 1 after traveling along every road exactly once.
It is clear that Bobo has many plans to choose from. He would like to find out the number of different plans, modulo $\left(10^{9}+7\right)$.
Note that two plans $A$ and $B$ are considered different only if there exists an $i$ where the $i$-th traveled road in plan $A$ is different from the $i$-th road in plan $B$.

## Input

The first line contains an integer $n\left(2 \leq n \leq 10^{5}\right)$.
The $i$-th of the following $(n-1)$ lines contains 3 integers $a_{i}, b_{i}, c_{i}$ $\left(1 \leq a_{i}, b_{i} \leq n, c_{i} \geq 1, c_{1}+c_{2}+\cdots+c_{n-1} \leq 10^{6}\right)$.

## Output

An integer denotes the number of plans modulo $\left(10^{9}+7\right)$.

## Examples

|  | standard input |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  | 4 | standard output |  |
| 1 | 2 | 1 |  |  |
| 2 | 3 | 1 | 144 |  |
| 3 |  |  |  |  |
| 1 | 2 | 1 |  |  |
| 1 | 3 | 2 |  |  |

