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| A | Road Minister Techboy | Time limit: 1 sec |

Description:

Techboy is selected as a minister of roads and highway in his country “nam diya kaj nai”. Now he wants to visit all the cities of “nam diya kaj nai” to know more about the current condition of the roads. But as he is a very lazy person he wants to travel minimum as possible but he wants to visit all the cities at least once.   
  
All the cities in “Nam diya kam nai” are numbered 1 to n. currently techboy is in the city number 1. He will start his journey from this city and can end in any city of “Nam diye kam nai” but he will visit all the cities at least once. He wants to travel minimum distance as possible. Now help techboy to find the minimum distance he needs to travel.   
  
 Input:  
Input starts with an integer **T (≤ 20)**, denoting the number of test cases. First line contains a single integer N ( N <= 1000 ) number of cities in the “Nam diya kaj nai”. Next *n* - 1 lines contain 3 integer numbers each *xi*, *yi* and *wi* (1 ≤ *xi*, *yi* ≤ *n*, 0 ≤ *wi* ≤ 2 × 104). *xi* and *yi* are two ends of a road and *wi* is the length of that road.

Output:

For each test case, print a line “Case x: y” where x is replaced by the test case number and y is the minimum distance techboy needs to travel.

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| Input | Output |
| 2  3  1 2 3  2 3 4  3  1 2 3  1 3 3 | Case 1: 7  Case 2: 9 |