

2492. Minimum Score of a Path Between Two Cities

Hint ...

Medium 1.5K 264

Companies

You are given a positive integer n representing n cities numbered from 1 to n . You are also given a **2D** array `roads` where `roads[i] = [ai, bi, distancei]` indicates that there is a **bidirectional** road between cities a_i and b_i with a distance equal to `distancei`. The cities graph is not necessarily connected.

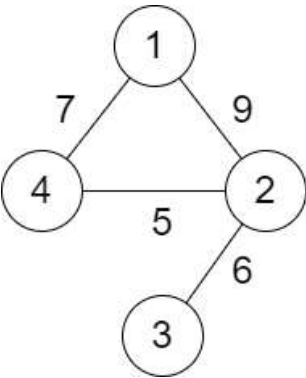
The **score** of a path between two cities is defined as the **minimum** distance of a road in this path.

Return the **minimum** possible score of a path between cities 1 and n .

Note:

- A path is a sequence of roads between two cities.
- It is allowed for a path to contain the same road **multiple** times, and you can visit cities 1 and n multiple times along the path.
- The test cases are generated such that there is **at least** one path between 1 and n .

Example 1:

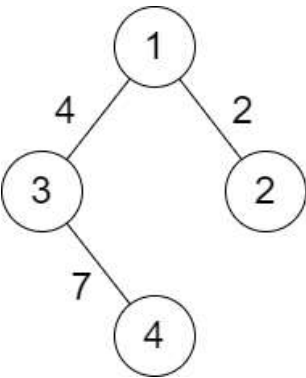


Input: $n = 4$, `roads = [[1,2,9],[2,3,6],[2,4,5],[1,4,7]]`

Output: 5

Explanation: The path from city 1 to 4 with the minimum score is: $1 \rightarrow 2 \rightarrow 4$. The score of this path is $\min(9, 5) = 5$. It can be shown that no other path has less score.

Example 2:



Input: $n = 4$, `roads = [[1,2,2],[1,3,4],[3,4,7]]`

Output: 2

Explanation: The path from city 1 to 4 with the minimum score is: $1 \rightarrow 2 \rightarrow 1 \rightarrow 3 \rightarrow 4$. The score of this path is $\min(2, 2, 4, 7) = 2$.

Constraints:

- $2 \leq n \leq 10^5$
- $1 \leq \text{roads.length} \leq 10^5$
- $\text{roads}[i].\text{length} == 3$
- $1 \leq a_i, b_i \leq n$
- $a_i \neq b_i$
- $1 \leq \text{distance}_i \leq 10^4$
- There are no repeated edges.
- There is at least one path between 1 and n.

Accepted 68.4K Submissions 117.8K Acceptance Rate 58.1%

Seen this question in a real interview before? 1/4

Yes No

Discussion (37) 

Similar Questions 

Related Topics 