5795. Minimum Cost to Reach Destination in Time

My Submissions (/contest/biweekly-contest-56/problems/minimum-cost-to-reach-destination-in-time/submissions/)

Back to Contest (/contest/biweekly-contest-56/)

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

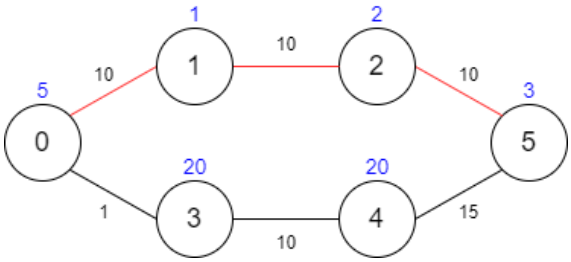
There is a country of `n` cities numbered from `0` to `n - 1` where **all the cities are connected** by bi-directional roads. The roads are represented as a 2D integer array `edges` where `edges[i] = [$x_i$, $y_i$, $time_i$]` denotes a road between cities x_i and y_i that takes $time_i$ minutes to travel. There may be multiple roads of differing travel times connecting the same two cities, but no road connects a city to itself.

Each time you pass through a city, you must pay a passing fee. This is represented as a **0-indexed** integer array `passingFees` of length `n` where `passingFees[j]` is the amount of dollars you must pay when you pass through city `j`.

In the beginning, you are at city `0` and want to reach city `n - 1` in `maxTime` **minutes or less**. The **cost** of your journey is the **summation of passing fees** for each city that you passed through at some moment of your journey (**including** the source and destination cities).

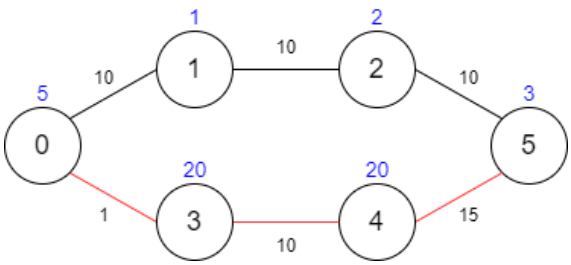
Given `maxTime`, `edges`, and `passingFees`, return *the **minimum cost** to complete your journey, or* `-1` *if you cannot complete it within* `maxTime` *minutes*.

Example 1:




```
Input: maxTime = 30, edges = [[0,1,10],[1,2,10],[2,5,10],[0,3,1],[3,4,10],[4,5,15]], passingFees = [5,1,2,20,20
Output: 11
Explanation: The path to take is 0 -> 1 -> 2 -> 5, which takes 30 minutes and has $11 worth of passing fees.
```

Example 2:




```
Input: maxTime = 29, edges = [[0,1,10],[1,2,10],[2,5,10],[0,3,1],[3,4,10],[4,5,15]], passingFees = [5,1,2,20,20
Output: 48
Explanation: The path to take is 0 -> 3 -> 4 -> 5, which takes 26 minutes and has $48 worth of passing fees.
You cannot take path 0 -> 1 -> 2 -> 5 since it would take too long.
```

Example 3:

```
Input: maxTime = 25, edges = [[0,1,10],[1,2,10],[2,5,10],[0,3,1],[3,4,10],[4,5,15]], passingFees = [5,1,2,20,20
Output: -1
Explanation: There is no way to reach city 5 from city 0 within 25 minutes.
```

Constraints:

- 1 <= maxTime <= 1000
- n == passingFees.length
- 2 <= n <= 1000
- n - 1 <= edges.length <= 1000
- 0 <= x_i, y_i <= n - 1
- 1 <= $time_i$ <= 1000
- 1 <= passingFees[j] <= 1000
- The graph may contain multiple edges between two nodes.
- The graph does not contain self loops.

JavaScript

```
/**
 * @param {number} maxTime
 * @param {number[][]} edges
 * @param {number[]} passingFees
 * @return {number}
 */
var minCost = function(maxTime, edges, passingFees) {

};
```

Custom Testcase Use Example Testcases

Run Submit