

2662. Minimum Cost of a Path With Special Roads

Description

You are given an array `start` where `start = [startX, startY]` represents your initial position `(startX, startY)` in a 2D space. You are also given the array `target` where `target = [targetX, targetY]` represents your target position `(targetX, targetY)`.

The cost of going from a position `(x1, y1)` to any other position in the space `(x2, y2)` is `|x2 - x1| + |y2 - y1|`.

There are also some special roads. You are given a 2D array `specialRoads` where `specialRoads[i] = [x1i, y1i, x2i, y2i, costi]` indicates that the `ith` special road can take you from `(x1i, y1i)` to `(x2i, y2i)` with a cost equal to `costi`. You can use each special road any number of times.

Return *the minimum cost required to go from* `(startX, startY)` to `(targetX, targetY)`.

Example 1:

Input: `start = [1,1], target = [4,5], specialRoads = [[1,2,3,3,2],[3,4,4,5,1]]`
Output: `5`
Explanation: The optimal path from (1,1) to (4,5) is the following:
- (1,1) -> (1,2). This move has a cost of `|1 - 1| + |2 - 1| = 1`.
- (1,2) -> (3,3). This move uses the first special edge, the cost is 2.
- (3,3) -> (3,4). This move has a cost of `|3 - 3| + |4 - 3| = 1`.
- (3,4) -> (4,5). This move uses the second special edge, the cost is 1.
So the total cost is `1 + 2 + 1 + 1 = 5`.
It can be shown that we cannot achieve a smaller total cost than 5.

Example 2:

Input: `start = [3,2], target = [5,7], specialRoads = [[3,2,3,4,4],[3,3,5,5,5],[3,4,5,6,6]]`
Output: `7`
Explanation: It is optimal to not use any special edges and go directly from the starting to the ending position with a cost `|5 - 3| + |7 - 2| = 7`.

Constraints:

- `start.length == target.length == 2`
- `1 <= startX <= targetX <= 105`
- `1 <= startY <= targetY <= 105`
- `1 <= specialRoads.length <= 200`
- `specialRoads[i].length == 5`
- `startX <= x1i, x2i <= targetX`
- `startY <= y1i, y2i <= targetY`
- `1 <= costi <= 105`

