A **triplet** is an array of three integers. You are given a 2D integer array triplets, where triplets[i] = [ai, bi, ci] describes the ith **triplet**. You are also given an integer array target = [x, y, z] that describes the **triplet** you want to obtain.

To obtain target, you may apply the following operation on triplets **any number** of times (possibly **zero**):

* Choose two indices (**0-indexed**) i and j (i != j) and **update** triplets[j] to become [max(ai, aj), max(bi, bj), max(ci, cj)].
  + For example, if triplets[i] = [2, 5, 3] and triplets[j] = [1, 7, 5], triplets[j] will be updated to [max(2, 1), max(5, 7), max(3, 5)] = [2, 7, 5].

Return true *if it is possible to obtain the*target***triplet***[x, y, z]*as an****element****of*triplets*, or*false*otherwise*.

**Example 1:**

**Input:** triplets = [[2,5,3],[1,8,4],[1,7,5]], target = [2,7,5]

**Output:** true

**Explanation:** Perform the following operations:

- Choose the first and last triplets [[2,5,3],[1,8,4],[1,7,5]]. Update the last triplet to be [max(2,1), max(5,7), max(3,5)] = [2,7,5]. triplets = [[2,5,3],[1,8,4],[2,7,5]]

The target triplet [2,7,5] is now an element of triplets.

**Example 2:**

**Input:** triplets = [[1,3,4],[2,5,8]], target = [2,5,8]

**Output:** true

**Explanation:** The target triplet [2,5,8] is already an element of triplets.

**Example 3:**

**Input:** triplets = [[2,5,3],[2,3,4],[1,2,5],[5,2,3]], target = [5,5,5]

**Output:** true

**Explanation:** Perform the following operations:

- Choose the first and third triplets [[2,5,3],[2,3,4],[1,2,5],[5,2,3]]. Update the third triplet to be [max(2,1), max(5,2), max(3,5)] = [2,5,5]. triplets = [[2,5,3],[2,3,4],[2,5,5],[5,2,3]].

- Choose the third and fourth triplets [[2,5,3],[2,3,4],[2,5,5],[5,2,3]]. Update the fourth triplet to be [max(2,5), max(5,2), max(5,3)] = [5,5,5]. triplets = [[2,5,3],[2,3,4],[2,5,5],[5,5,5]].

The target triplet [5,5,5] is now an element of triplets.

**Example 4:**

**Input:** triplets = [[3,4,5],[4,5,6]], target = [3,2,5]

**Output:** false

**Explanation:** It is impossible to have [3,2,5] as an element because there is no 2 in any of the triplets.

**Constraints:**

* 1 <= triplets.length <= 105
* triplets[i].length == target.length == 3
* 1 <= ai, bi, ci, x, y, z <= 1000