## 1580. Put Boxes Into the Warehouse II Premium

Medium ♥ Topics ② Companies ۞ Hint

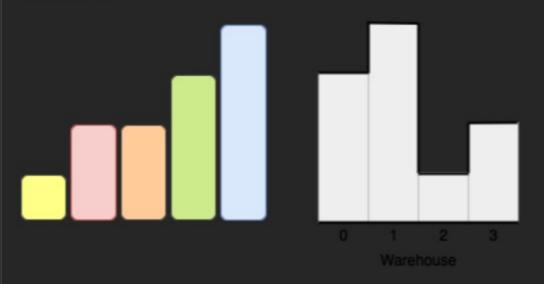
You are given two arrays of positive integers, boxes and warehouse, representing the heights of some boxes of unit width and the heights of n rooms in a warehouse respectively. The warehouse's rooms are labeled from 0 to n - 1 from left to right where warehouse[i] (0-indexed) is the height of the ith room.

Boxes are put into the warehouse by the following rules:

- Boxes cannot be stacked.
- · You can rearrange the insertion order of the boxes.
- Boxes can be pushed into the warehouse from either side (left or right)
- If the height of some room in the warehouse is less than the height of a box, then that box and all other boxes behind it will be stopped before that room.

Return the maximum number of boxes you can put into the warehouse.

## Example 1:



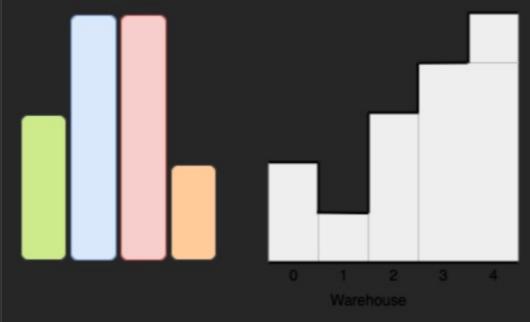
Input: boxes = [1,2,2,3,4], warehouse = [3,4,1,2]Output: 4 Explanation:

We can store the boxes in the following order:

- 1- Put the yellow box in room 2 from either the left or right side.
- 2- Put the orange box in room 3 from the right side.
- 3- Put the green box in room 1 from the left side.
- 4- Put the red box in room 0 from the left side.

Notice that there are other valid ways to put 4 boxes such as swapping the red and green boxes or the red and orange boxes.

## Example 2:



**Input:** boxes = [3,5,5,2], warehouse = [2,1,3,4,5]Output: 3 Explanation:

It is not possible to put the two boxes of height 5 in the warehouse since there's only 1 room of height >= 5. Other valid solutions are to put the green box in room 2 or to put the orange box first in room 2 before putting the green and red boxes.

## Constraints:

- n == warehouse.length
- 1 <= boxes.length, warehouse.length <= 10<sup>5</sup>
- 1 <= boxes[i], warehouse[i] <= 109</li>

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Topics Array Greedy Sorting

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Try to put at least one box in the house pushing it from either side.

O Hint 2

Once you put one box to the house, you can solve the problem with the same logic used to solve version I. You have a warehouse open from the left only and a warehouse open from the right only.

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Put Boxes Into the Warehouse I 🍖