1564. Put Boxes Into the Warehouse I

Description

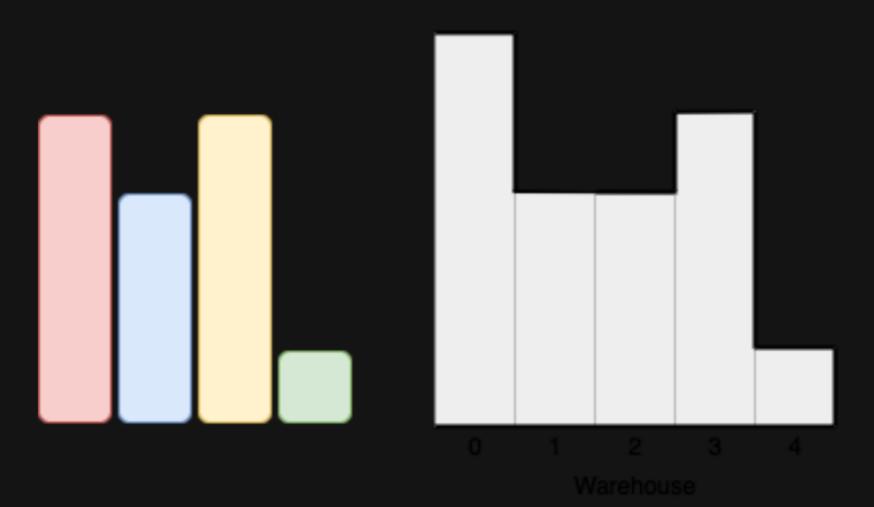
You are given two arrays of positive integers, boxes and warehouse, representing the heights of some boxes of unit width and the heights of n rooms in a warehouse respectively. The warehouse's rooms are labelled from 0 to n - 1 from left to right where warehouse[i] (0-indexed) is the height of the ith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

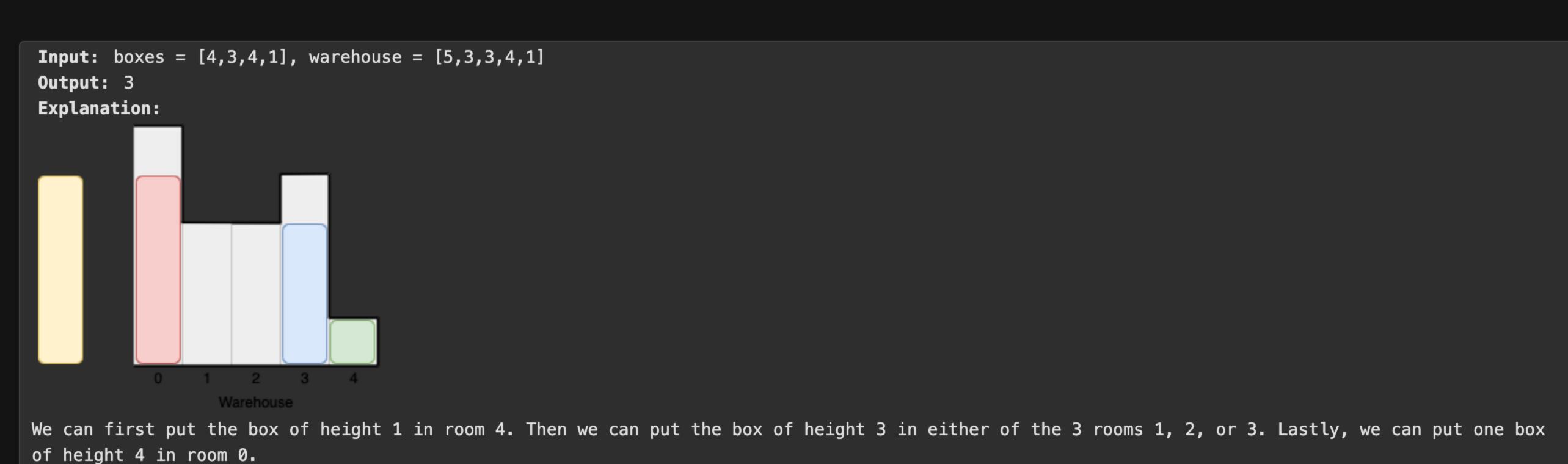
Boxes are put into the warehouse by the following rules:

- Boxes cannot be stacked.
- You can rearrange the insertion order of the boxes.
- Boxes can only be pushed into the warehouse from left to right only.
- 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.

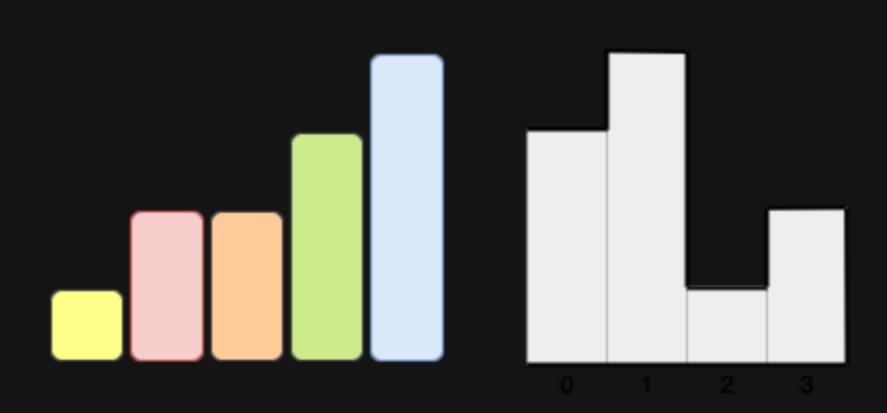
Return the maximum number of boxes you can put into the warehouse.

Example 1:

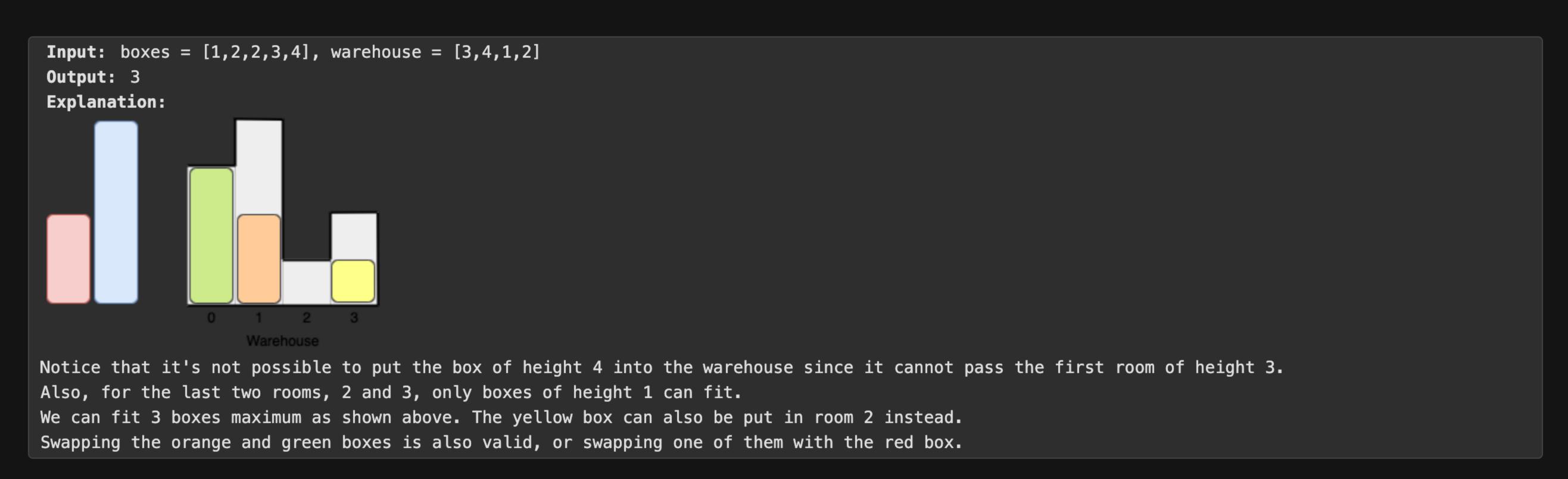




Example 2:



There is no way we can fit all 4 boxes in the warehouse.



Example 3:

```
Input: boxes = [1,2,3], warehouse = [1,2,3,4]
Output: 1
Explanation: Since the first room in the warehouse is of height 1, we can only put boxes of height 1.
```

Constraints:

- n == warehouse.length
- 1 <= boxes.length, warehouse.length <= 10 5
- 1 <= boxes[i], warehouse[i] <= 10 9